UAT-Test Cases- Energy Accounting & Settlement Software

Modules- Meter Data Management, Energy Accounting, Deviation Accounting, UI Disbursement

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Bihar State Power Transmission Company Limited.

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1. Context

BSPTCL is implementing a web based DSM Settlement implementation software to support the SLDC in generating energy accounts and managing UI disbursement through IT enablement of various processes. The objective of the accounting module is to capture the energy meter data and generate energy drawal abstract for Discoms and energy generation abstract for State generators. The deviation accounting and UI disbursement modules would support SLDC in generating weekly DSM accounts and managing the disbursement process in system. This documents covers test cases which can be used for testing various functionalities provided under Meter Data Management, Energy Accounting, Deviation Accounting and UI Disbursement Software modules.

2. Functional Requirements

Accounting module has been designed to capture CT/PT/Meter information, associated each CT/PT/Meter with respective interface points, upload energy meter data and process these data to generate summary and details of monthly energy abstract. The module has features to take care of various type of data gaps due to PT fuse failure cases, missing demand for a specific period (during testing etc.), and non-availability of complete MRI data. The detailed energy comparison report and exception report generated after processing of data will be useful to resolve exceptions. Other reports gives general information like list of sub-stations/generating stations, list of metering points, list of private developers, list of energy meters etc. The module has provisions to add/edit sub-stations and metering points. The functional requirements pertaining to various processes are provided below:

Master Data Management **(System Administration)**	**Energy Accounting** **(General User)**

• Transmission Zones
• Discoms
• Transmission Circles
• Transmission Divisions
• Generator Master
• Supply Points
• Sub-stations
• Metering Points/ Feeder
• Meter Data Management
• Meter Association
• CT/PT details
• Interface Points
• Voltage Master
• User Management
	• Uploading of MRI data (ASo) files
	• Manual demand Entry
	• Corrected Energy
	• PT Fuse Failure Details
	• Calculate T-D Energy Accounts
	• Reports
	  ○ T-D Energy Drawal Reports
	  ○ Energy Comparison Reports (main/ check)
	  ○ Discom Demand (% Energy Share)
	  ○ Meter/ Interface Exception Reports
	  ○ State Energy Account Report
	  ○ Transmission Loss Report

Deviation Accounting	UI Disbursement

• Migration of DC and Implemented Schedules (From Scheduling module)
• Uploading meter data of generating and drawal points/entities
• Frequency Management
• Verification of input data prior to deviation calculation
• Calculation of Actual Generation
• Transmission Constraint Cases
• Deviation Calculation
• Verification and Approval of Deviation Bill
	• Generation weekly DSM Bill
	• Generate Revised Bill (along with comparison with original bill)
	• DSM bill dispatch
	• DSM Bill payment / UI disbursement
	• Reports
	  ○ Injection Drawal Report
	  ○ Deviation Monitoring
	  ○ UI/ DSM Bill Preparation Monitoring
	  ○ Dispatch Progress

3. Test Cases

3.1. Meter Data Management

3.1.1. Login Process

Test Case ID	MDM-1001		**Module Name**	Meter Data Management	
Test Title	Login Process		**User Role**	System Administrator	
Test Executed By			**Test Date**		
Pre-conditions	The user should have valid login-id and password for accessing System Administration module.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Open the web browser and type web-link/URL in address bar	<web-link/ URL>, Recommended web browser- Google chrome	Web browser opened		
2	Click on System Administrator module		Module link is visible		
3	Type User-id/login id and password in relevant fields	User id – admin, Password: admin	Login id and password is entered		
4	Click on Login button		Login option is visible and user is able to login into System administrator module		
Post-conditions	The user is logged into System Administration module which has all the screens for managing meter data configuration and master database.				

3.1.2. Transmission Zone Master

Test Case ID	MDM-1002		**Module Name**	Meter Data Management	
Test Title	Transmission Zone Master		**User Role**	System Administrator	
Test Executed By			**Test Date**		
Pre-conditions	The user should have access in the System Administration module and logged into module.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Add Location Transmission Zone		Opened Add/Modify Transmission Zone page		
2	Enter Zone name	<Name of the Zone>	User has entered Zone name		
3	Enter Head Quarter	<Name of Head Quarter>	User has entered Head quarter name		
4	Click on save button		User saved the details successfully		
Post-conditions	New Zone name is added in the Database, The systems provides feature of addition and updation of Zone details through front end.				

3.1.3. Discom Master

Test Case ID	MDM-1003		**Module Name**	Meter Data Management	
Test Title	Discom Master		**User Role**	System Administrator	
Test Executed By			**Test Date**		
Pre-conditions	The user should have access in the System Administration module and logged into module.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Add Location Discom		Opened Add new Discom Page		
2	Enter Name	<Name of Discom>	User has entered Discom Name		
3	Enter Description	Description	User has written Description		
4	Enter Head Quarter	<Name of Headquarter>	User has entered Head quarter		
5	Click on Add button		User added the details Successfully		
Post-conditions	New Discom is added in the Database, The systems provides feature of addition and updation of Discom details through front end.				

3.1.4. Transmission Circles

Test Case ID	MDM-1004		**Module Name**	Meter Data Management	
Test Title	Transmission Circle		**User Role**	System Administrator	
Test Executed By			**Test Date**		
Pre-conditions	The user should have access in the System Administration module and logged into module.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Add Location Transmission Circle		Opened Add/Modify Transmission Circle page		
2	Enter Transmission circle name	<Name of the circle>	User has entered circle name		
3	Select Discom	<Name of Discom>	User has selected Discom from dropdown menu		
4	Select Zone	<Name of Zone>	User has selected zone from dropdown menu		
5	Click on save button		User saved the details successfully		
Post-conditions	New Circle name is added in the Database. Once circle is added, divisions under new circle can be added.				

3.1.5. Transmission Division

Test Case ID	MDM-1005		**Module Name**	Meter Data Management	
Test Title	Transmission Division		**User Role**	System Administrator	
Test Executed By			**Test Date**		
Pre-conditions	The user should have access in the System Administration module and logged into module.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Add Location Transmission Division		Opened Add/Modify Division page		
2	Select Discom	<Name of the Discom>	User has selected Discom from dropdown menu		
3	Select Division	<Name of Division>	User has selected Division from dropdown menu		
4	Select Transmission Circle	<Name of Circle>	User has selected circle from dropdown menu		
5	Click on save button		User saved the details successfully		
Post-conditions	New Division details are added in the Database. In case of creation of new zone/circle, existing division can be mapped to new zone/circle.				

3.1.6. Supply Point/ Sub-station

Test Case ID	MDM-1006		**Module Name**	Meter Data Management	
Test Title	Supply Point/ Sub-station		**User Role**	System Administrator	
Test Executed By			**Test Date**		
Pre-conditions	The user should have access in the System Administration module and logged into module.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Add T—D Add supply Point		Opened Add/Modify Supply Point page		
2	Select Discom	<Name of the Discom>	User has selected Discom from dropdown menu		
3	Select Supply Point	<Name of Supply Point>	User has selected Supply point from dropdown menu		
4	Select Division	<Name of Division>	User has selected Division from dropdown menu		
5	Select Voltage Level		User has selected Voltage Level from dropdown menu		
6	Select Transfer Circle	<Name of Transfer Circle>	User has selected transfer circle from dropdown menu		
7	Select MRI Serial Number		User has selected MRI serial number from dropdown menu		
8	Select Transfer Type		User has selected transfer type from dropdown menu		
9	Click on save button		User saved the details successfully		
Post-conditions	New Supply-Point details are added in the Database. In case of new addition of new circle/ division, existing supply points can be mapped with newly created division/ circle/ zone. For addition of feeders/ metering points, addition of supply point is mandatory as feeders/ metering points/ transformers will be mapped to supply point/ sub-station.				

3.1.7. Feeder/ Metering Point

Test Case ID	MDM-1007		**Module Name**	Meter Data Management	
Test Title	Feeder/ Metering Point		**User Role**	System Administrator	
Test Executed By			**Test Date**		
Pre-conditions	The user should have access in the System Administration module and logged into module.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Add T—D Add Metering Point		Opened Add/Modify Metering Point page		
2	Select Discom	<Name of the Discom>	User has selected Discom from dropdown menu		
3	Select Supply Point	<Name of Supply Point>	User has selected Supply point from dropdown menu		
4	Select Division	<Name of Division>	User has selected Division from dropdown menu		
5	Select Voltage Level		User has selected Voltage Level from dropdown menu		
6	Select Transfer Circle	<Name of Transfer Circle>	User has selected transfer circle from dropdown menu		
7	Select MRI Serial Number		User has selected MRI serial number from dropdown menu		
8	Select Transfer Type		User has selected transfer type from dropdown menu		
9	Enter Metering Point Details	<Metering Point, Interface type, Flow Direction, Discom…>			
10	Click on save button		User saved the details successfully		
Post-conditions	New Metering-Point details are added in the Database. Meter details/ duty will be configured on metering points. While configuring the metering details, the end user should properly check for input parameters like Polarity and Flow Direction (Unidirectional or Bidirectional)				

3.1.8. Meter Data Management

Test Case ID	MDM-1008		**Module Name**	Meter Data Management	
Test Title	Meter Data Management		**User Role**	System Administrator	
Test Executed By			**Test Date**		
Pre-conditions	The user should have access in the System Administration module and logged into module. System maintains details of main and check meter through a single screen only. While configuring meter duty, the user can fill-in relevant meter number.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Add Meter Master under Meter tab		Opened Add/Edit Meter Model Page		
2	Select Meter Model	<Name of the Meter>	User has selected meter model from dropdown menu		
3	Enter Meter Make	<Name of manufacturer>	User has entered meter manufacturer name		
4	Select Type	<Electronic/Mechanical>	User has selected meter type from dropdown menu		
5	Enter Accuracy Class		User has entered accuracy class of meter		
6	Click on save button		User saved the details successfully		
Post-conditions	New meter details are added in the Database.				

3.1.9. Meter Duty Management

Test Case ID	MDM-1009		**Module Name**	Meter Data Management	
Test Title	Meter Duty Management		**User Role**	System Administrator	
Test Executed By			**Test Date**		
Pre-conditions	The user should have access in the System Administration module and logged into module. Meter duty should be created after entering metering point/ feeder and meter details. In case of change in meter number or MF details, user should close existing duty and open new duty (association with feeder/ metering point) with new meter number or MF.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Add T—D Meter Association (Duty)		Opened Meter Association Page		
2	Select Discom	<Name of the Discom>	User has selected Discom from dropdown menu		
3	Select Transmission Circle	<Name of Circle>	User has selected circle from dropdown menu		
4	Select Division	<Name of Division>	User has selected Division from dropdown menu		
5	Select Supply Point	<Name of Supply Point>	User has selected Supply point from dropdown menu		
6	Select Metering Point		User has selected metering point from dropdown menu		
7	Click on Add/View/Edit button		User added the details successfully		
Post-conditions	New meter duty details are added in the Database				

3.1.10. CT/ PT Details

Test Case ID	MDM-1010		**Module Name**	Meter Data Management	
Test Title	CT/ PT Details		**User Role**	System Administrator	
Test Executed By			**Test Date**		
Pre-conditions	The user should have access in the System Administration module and logged into module.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Add CT/PT Master Under CT/ PT Details tab		Opened Add/Modify CT/PT Master Details page		
2	Select CT/PT Serial number	<Serial number>	User has selected serial number from dropdown menu		
3	Select Effective Date		User has selected date		
4	Select CT/PT Model	<Name of Model>	User has selected CT/PT Model from dropdown menu		
5	Enter CT/PT Burden		User has entered Burden		
6	Select Calibration Date		User has selected date		
7	Click on save button		User saved the details successfully		
Post-conditions	New CT/PT master details are added in the Database.				

3.1.11. Interface Point Category

Test Case ID	MDM-1011		**Module Name**	Meter Data Management	
Test Title	Interface Point Category		**User Role**	System Administrator	
Test Executed By			**Test Date**		
Pre-conditions	The user should have access in the System Administration module and logged into module.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Add T—D Interface Point Category		Opened Add/Modify Interface PT Category Page		
2	Select Interface Point	<Name of Interface Point>	User has selected interface point from dropdown menu		
3	Select Transfer Type		User has selected transfer type from dropdown menu		
4	Select Voltage level	<400KV, 220KV, 132KV…>	User has selected Voltage from dropdown menu		
5	Enter In Voltage		User has entered In Voltage		
6	Enter Out Voltage		User has entered Out Voltage		
7	Select Point Type		User has selected from dropdown		
8	Select Feeder Type		User has selected from dropdown		
9	Select Generator category		User has selected from dropdown		
10	Click on save button		User saved the details successfully		
Post-conditions	Interface Point category are added in the Database. Based on the interface category mapped with transformer/ metering point, the system will add/subtract the generation to calculate the ex-bus generation.				

3.1.12. Voltage Master

Test Case ID	MDM-1012		**Module Name**	Meter Data Management	
Test Title	Voltage Master		**User Role**	System Administrator	
Test Executed By			**Test Date**		
Pre-conditions	The user should have access in the System Administration module and logged into module.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Add Voltage		Opened Add/Modify Voltage page		
2	Select Voltage	<400KV, 220KV, 132KV…>	User has selected voltage from dropdown menu		
3	Click on save button		User saved the details successfully		
Post-conditions	Voltage details are added in the Database.				

3.1.13. User Management

Test Case ID	MDM-1013		**Module Name**	Meter Data Management	
Test Title	User Management		**User Role**	System Administrator	
Test Executed By			**Test Date**		
Pre-conditions	The user should have access in the System Administration module and logged into module.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on User under User Admin tab		Opened User Admin page		
2	Select the type of user	SLDC/ STU/ Zone/ Circle/ Division/ Other)	User selected from dropdown and radio buttons		
3	Enter Full Name		User entered the full name		
4	Enter Login ID	Id: admin			
5	Enter Password	Password: admin			
6	Enter Confirm Password	Confirm Password: admin			
7	Click on save button		User created successfully		
8	Assigning Module Access under module level tab	<Select the user from Dropdown>	Used assigned (Administrator / Manager/ Operator/ General User) access		
Post-conditions	User can now use his credentials for log into portal				

3.2. *Energy Accounting*

3.2.1. Login Process

Test Case ID	EA-2001		**Module Name**	Energy Accounting	
Test Title	Login Process		**User Role**	General User	
Test Executed By			**Test Date**		
Pre-conditions	The user should have valid login-id and password for accessing Energy Accounting module.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Open the web browser and type web-link/URL in address bar	<web-link/ URL>, Recommended web browser- Google chrome	Web browser opened		
2	Click on Accounting module		Module link is visible		
3	Type User-id/login id and password in relevant fields	User id – admin, Password: admin	Login id and password is entered		
4	Click on Login button		Login option is visible and user is able to login		
Post-conditions	The user is able to log-in into Energy Accounting module. New users for Energy Accounting module can be created by System Administrator.				

3.2.2. Uploading of MRI data (ASO) files

Test Case ID	EA-2002		**Module Name**	Energy Accounting	
Test Title	Uploading of MRI data (ASo) files		**User Role**	General user	
Test Executed By			**Test Date**		
Pre-conditions	The user should have valid login-id and password for accessing Energy Accounting module. The user should have converted raw meter data files (MRD/ EMD files downloaded from meter) into ASo format which will have load survey data (Energy/ Demand, Voltage parameter etc.). The user should create a single zip file by compressing converted Aso files which would be the input for uploading module.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Upload ASCII File to server under remote upload tab	Zipped .ASO files	User uploaded the file in server		
2	Click on MRI meter Files	<File Type, Time period>	User selected the file type, file path and time		
3	Click on upload Button		User uploaded the MRI files in the database		
Post-conditions	The files are uploaded in database.				

3.2.3. Manual Energy

Test Case ID	EA-2003		**Module Name**	Energy Accounting	
Test Title	Updating Manual Energy at Circle level		**User Role**	General User	
Test Executed By			**Test Date**		
Pre-conditions	The user should have valid login-id and password for accessing Energy Accounting module. In case of no MRI data is available, the system provides an option to fill-in manual energy recorded in meters at circle level. This will be considered for generating monthly T-D energy account.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Manual Energy Entry link		Opened Manual energy Page		
2	Select Month and Year		User selected month and year		
3	Select transmission Circle	<Transmission circle>	User selected transmission from drop down and list of all feeders/ metering points mapped under the selected circle should be displayed.		
4	Enter Energy in MU for EXP and IMP parameters	<Energy in MU	User selected supply point from dropdown menu		
7	Click on save button		User saved the details successfully		
Post-conditions	The user is able to save monthly energy in MU.				

3.2.4. Upload Manual Demand

Test Case ID	EA-2004		**Module Name**	Energy Accounting	
Test Title	Upload Manual Demand		**User Role**	General User / General user	
Test Executed By			**Test Date**		
Pre-conditions	The user should have valid login-id and password for accessing Energy Accounting module. Manual demand can be entered in case meter data is not available for upload.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Manual Demand under Data Entry tab		Opened Manual Demand Entry Page		
2	Select transmission Circle	<Transmission circle>	User selected transmission from drop down		
3	Select Supply Point	<supply point>	User selected supply point from dropdown menu		
4	Select Metering Point	<metering point>	User selected metering point from dropdown menu		
5	Select Month and Year		User selected month and year		
6	Enter Export/Import	<MWh/MW>	User entered Export/Import Details		
Post-conditions	Manual Demand Entry has been updated in the Database				

3.2.5. Updating Corrected Energy

Test Case ID	EA-2005		**Module Name**	Energy Accounting	
Test Title	Updating Corrected Energy		**User Role**	General User	
Test Executed By			**Test Date**		
Pre-conditions	The user should have valid login-id and password for accessing Energy Accounting module. Corrected energy should be entered if partial MRI/ meter data is available. In such case, the user will enter complete manual energy recorded for a month in system and the corrected energy which is difference of manual energy and partial MRI energy will be calculated and stored in database for considering the same for generating monthly energy account.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Corrected Energy under Data Entry tab		Opened Manual Demand corrected energy Page		
2	Select Month and Year		User selected month and year		
3	Select transmission Circle	<Transmission circle>	User selected transmission from drop down		
4	Select Supply Point	<supply point>	User selected supply point from dropdown menu		
5	Select Metering Point	<metering point>	User selected metering point from dropdown menu		
6	Enter Manual Energy Export/Import	<MWh/MW>	User entered Export/Import Details		
7	Click on save button		User saved the details successfully		
Post-conditions	Manual Demand corrected Energy has been stored in the Database. After uploading meter data, manual and corrected energy, the user can calculate T-D Energy Account.				

3.2.6. Calculate T-D Energy Account

Test Case ID	EA-2006		**Module Name**	Energy Accounting	
Test Title	T-D Energy Drawal Report		**User Role**	General User	
Test Executed By			**Test Date**		
Pre-conditions	The user should have valid login-id and password for accessing Energy Accounting module.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Calculate T-D Accounts		Opened Calculation screen		
2	Select Discom	Discom Selection	User selected Discom		
3	Select Transmission Circle	<circle>	User selected transmission circle		
4	Select Month and Year	<Month and Year)	User is able to select period.		
Post-conditions	User is able to calculate T-D Account for a Discom/ Circle/ supply point/ metering point.				

3.2.7. T-D Energy Drawal Report

Test Case ID	EA-2007		**Module Name**	Energy Accounting	
Test Title	T-D Energy Drawal Report		**User Role**	General User	
Test Executed By			**Test Date**		
Pre-conditions	The user should have valid login-id and password for accessing Energy Accounting module.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Energy Drawl Report under T-D tab on Reports		Opened Monthly STU- Discom Energy Drawal Report page		
2	Select Start Period Date	<Date>	User selected month and year		
3	Select End Period Date	<Date>	User selected month and year		
4	Click on Show Report		Displayed Zone/ Discom wise Energy Drawal in MU for selected months in GRID/ Tabular format.		
Post-conditions	User has successfully extracted Zone/ Discom wise Energy Drawal in MU for selected months in GRID/ Tabular format. The report has drill-down facility to generate energy Drawal account/statement at circle/ division/ sub-station level also.				

3.3. Deviation Accounting

3.3.1. Uploading Meter Data of Generating and Drawal Points/Entities

Test Case ID	DA-3001		**Module Name**	Settlement	
Test Title	Uploading of MRI data (ASo) files		**User Role**	General user	
Test Executed By			**Test Date**		
Pre-conditions	The user should have valid login-id and password for accessing Settlement module. The user should have converted raw meter data files (MRD/ EMD files downloaded from meter) into ASo format which will have load survey data (Energy/ Demand, Voltage parameter etc.). The user should create a single zip file by compressing converted Aso files which would be the input for uploading module.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Step: 1**	**Test Steps**
1	Click on Upload ASCII File to server under remote upload tab	Zipped .ASO files	User uploaded the file in server	**1**	Click on Upload ASCII File to server under remote upload tab
2	Click on MRI meter Files	<File Type, Time period>	User selected the file type, file path and time	**2**	Click on MRI meter Files
3	Click on upload Button		User uploaded the MRI files in the database	**3**	Click on upload Button
Post-conditions	The files are uploaded in database.				

3.3.2. Verification of Input Data Prior to Deviation Calculation

Test Case ID	DA-3002		**Module Name**	Settlement	
Test Title	Verification of input data prior to deviation calculation		**User Role**	General User	
Test Executed By			**Test Date**		
Pre-conditions	The user should have valid login-id and password for accessing Settlement module.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Verify and Approve – Input Data under UI Account tab		Opened Select Generator for Data Completeness check Page		
2	Select Year	<2015,2016,2017,2018>	User selected the year		
3	Select Week	<Week No.1, Week No.2, Week No.3…>	User selected the week		
4	Select Generator from the list		User mark on check mark before Generator to be selected		
5	Click on Check				
Post-conditions	Screen shows status of frequency, DC, implemented schedule and actual meter data for the selected period.				

3.3.3. Calculation of Actual Generation

Test Case ID	DA-3003		**Module Name**	Settlement	
Test Title	Calculation of Actual Generation		**User Role**	General User	
Test Executed By			**Test Date**		
Pre-conditions	The user should have valid login-id and password for accessing Settlement module.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Calculate Actual under UI Account tab		Opened Select Generator for Actual Calculation page		
2	Select Year	<2015,2016,2017,2018>	User selected the year		
3	Select Week	<Week No.1, Week No.2, Week No.3…>	User selected the week		
4	Select Generator from the list		User tick on check mark before Generator to be selected		
5	Click on Submit				
Post-conditions	The system calculates actual generation/ Drawal by applying MF on raw meter data uploaded.				

3.3.4. Deviation Calculation

Test Case ID	DA-3004		**Module Name**	Settlement	
Test Title	Deviation calculation		**User Role**	General User	
Test Executed By			**Test Date**		
Pre-conditions	The user should have valid login-id and password for accessing Settlement module.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Calculate UI under UI Account tab		Opened Select Generator for UI Calculation page		
2	Select Year	<2015,2016,2017,2018>	User selected the year		
3	Select Week	<Week No.1, Week No.2, Week No.3…>	User selected the week		
4	Select Start and End Date		Select date within a selected week		
4	Select Generator from the list		User tick on check mark before Generator to be selected		
5	Click on Submit				
Post-conditions	The system calculates Deviation.				

3.3.5. Verification and Approval of Deviation

Test Case ID	DA-3005		**Module Name**	Settlement	
Test Title	Verification and Approval of Deviation		**User Role**	General User	
Test Executed By			**Test Date**		
Pre-conditions	The user should have valid login-id and password for accessing Settlement module.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Verify & Approve UI Bill under UI Account tab		Opened Generator Wise UI Account page		
2	Select Year	<2015,2016,2017,2018>	User selected the year		
3	Select Week	<Week No.1, Week No.2, Week No.3…>	User selected the week		
4	Select Generator		User selected the Generator from Dropdown menu		
5	Select Version		User selected the version from dropdown menu		
6	Click on Verify and Approve Bill				
Post-conditions	The system Check draft DSM account (deviation and amount). If no discrepancy found in data, verify the draft bill otherwise re-upload missing data and recalculate the deviation				

3.4. UI Disbursement

3.4.1. DSM Bill Dispatch

Test Case ID	DA-4001		**Module Name**	Settlement	
Test Title	DSM bill dispatch		**User Role**	General User	
Test Executed By			**Test Date**		
Pre-conditions	The user should have valid login-id and password for accessing Settlement module.				
Step: 1	**Test Steps**	**Test Data**	**Expected Result**	**Actual Result**	**Remarks**
1	Click on Approve UI Bill for Dispatch		Opened Approve Bill for Dispatch Screen		
2	Select Year	<2015,2016,2017,2018>	User selected the year		
3	Select Week	<Week No.1, Week No.2, Week No.3…>	User selected the week		
4	Select Generator		User selected the Generator from Dropdown menu		
5	Select Version		User selected the version from dropdown menu		
6	Select Despatch Date		Select the date from Calendar		
7	Enter Despatch Number				
8	Enter Remarks		User entered remarks for display in UI Bill and remark for not approving bill for Dispatch		
Post-conditions	The system captures dispatch details to maintain record of DSM bill issued from SLDC.				

Disclaimer