

INTELLIGENT OUTAGE MANAGEMENT SYSTEM

USER TRAINING

Table of Contents

1. EMS: Extra High Voltage Management System	8
1.1 To Access EMS Module.....	8
1.2 Review the EMS Status.....	9
1.3 EMS Shutdown Process	9
1.3.1 For the Planned Shutdown:.....	10
1.3.2 For Emergency Shutdown.....	15
1.4 For Breakdown register	19
1.5 For Load shedding	25
2. DOMS: Distribution & Operation Management System.....	29
2.1 To Access DOMS Module	29
2.2 Review the DOMS Status	30
2.3 DOMS Shutdown Process	32
2.4 DOMS Breakdown Process	37
2.5 DOMS Faulty Cable Process.....	41
2.6 DOMS Breakdown maintenance Process	43
2.7 DOMS Load shedding Process	45
3. C.M.S.: Complaint Management System	48
3.1 Description	48
3.2 User Privileges and Rights.....	48
3.3 Accessible Links in C.M.S.....	48
3.4 Functions	49
3.4.1 Complaint Registration.....	49
3.4.2 Complaint Status.....	51
3.4.3 Update Complaint details	53
3.4.4 Assign Complaint to Team.....	55
3.4.4 Close Complaint	56
3.4.4 Reassign Complaint.....	59
3.4.5 Reopen or save feedback of closed complaints	60
3.4.6 Areas under outage	61
3.4.7 Team Management.....	62
3.4.7.1 Add Lineman or Assistant	62

<i>3.4.7.2 Remove Lineman or Assistant</i>	63
<i>3.4.7.3 Add Team.....</i>	64
<i>3.4.7.4 Remove Team.....</i>	66
<i>3.4.8 C.M.S. Reports.....</i>	67
<i> 3.4.8.1 M.I.S. Report</i>	67
<i> 3.4.8.2 Consumer History</i>	68

LIST OF TABLE

Table 1 User Rights Details	48
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TABLE OF FIGURES

Figure 1 Intelligent Outage Management System Login Page	8
Figure 1.2 EMS Dashboard.....	8
Figure 1.3 the EMS Status Window	9
Figure 1.4 EMS Shutdown Registration Window	9
Figure 1.5 the Shutdown Type List	10
Figure 1.6 Select the BYPL Circle	10
Figure 1.7 Select the Grid	10
Figure 1.8 Select the Feeder Voltage.....	11
Figure 1.9 List of the Feeders.....	11
Figure 1.10 List of the Affected Feeder Elements.	11
Figure 1.11 List of the Reasons of the Feeder Fault	12
Figure 1.12 Details to be Filled in the Shutdown Register Window.....	12
Figure 1.13 Pop up window with the Planned Shutdown ID.	13
Figure 1.14 Status Window Displaying the just created Planned Shutdown ID.....	13
Figure 1.15 Confirmation page for the registered shutdown.	13
Figure 1.16 Update information for the Registered Planned Shutdown ID.	14
Figure 1.17 Shutdown Close Window	14
Figure 1.18 Backfeed Information Window.....	15
Figure 1.19 Details to be Filled in the Shutdown Register Window	15
Figure 1.20 Pop up window with the Emergency Shutdown ID.....	16
Figure 1.21 Status Window Displaying the just created Emergency Shutdown ID	16
Figure 1.23 Shutdown Close Window	17
Figure 1.22 Update information for the Registered Emergency Shutdown ID.	17
Figure 1.24 Status Window	18
Figure 1.25 Backfeed Window	18
Figure 1.26 Select the BYPL Circle, Grid and Feeder Voltage for registering the breakdown	19
Figure 1.27 Select the Feeder name, Affected Element and the Fault Reason for the Breakdown. ...	20
Figure 28 Fill in the Requested By Details for Registering the Breakdown	20
Figure 1.29 Breakdown ID in the Pop up window.....	20
Figure 1.30 Breakdown ID listed in the status	21
Figure 1.31 Update Information for the Registered Breakdown.	21
Figure 1.32 Update the Requested by Information.	22
Figure 1.33 Backfeed Information Window.....	22
Figure 1.34 Breakdown Close Window.....	22
Figure 1.35 Breakdown Close Window.....	23
Figure 1.36 Breakdown Close window: Special case of Cable Breakdown.	23
Figure 1.37 Breakdown ID not listed and displayed in the status window.....	24
Figure1. 38 Select the Load shedding Option.	25
Figure 1.39 Load Shedding Registration Window	26
Figure 1.40 The Pop Window Displaying the Load Shedding ID and Fault ID.	26

Figure 1.41 Load shedding ID and Fault ID listed in the status	27
Figure 1.42 Update and Close the Load Shedding	27
Figure 1.43 Load Shedding Close Window.....	28
Figure 1.44 Load Shedding ID not listed and displayed in the Status window	28
Figure 2.45 DOMS Dashboard.....	29
Figure 2.46 the DOMS Status Window	30
Figure 2.47 Vehicle Assign Window	30
Figure 2.48 Pop up Displaying Assignment Confirmation	31
Figure 2.49 Vehicle Permission Divert or Edit Options.....	31
Figure 2.50 DOMS Status view on GIS Maps.....	31
Figure 2.51 DOMS Shutdown Registration Window	32
Figure 2.52 Select the Division.....	32
Figure 2.53 Select GRID	32
Figure 2.54 Select the 11KV Feeder.....	33
Figure 2.55 Select Substation, DT, Voltage and LT Feeder as per requirement	33
Figure 2.56 Pop up Window displaying Shutdown ID & Fault ID	33
Figure 2.57 Status Window displaying Registered Shutdown ID	33
Figure 2.58 Shutdown Confirmation Window	34
Figure 2.59 Shutdown Information Update Window	34
Figure 2.60 Shutdown Backfeed Window.....	35
Figure 2.61 Shutdown Closing Window.....	35
Figure 2.62 Shutdown Window in case of Partially Closed Situation.....	36
Figure 2.63 Breakdown Registration Window	37
Figure 2.64 Popup Window displaying Breakdown ID & Fault ID	37
Figure 2.65 Status Window displaying the Registered Breakdown.....	37
Figure 2.66 Breakdown Information Update Window	38
Figure 2.67 Breakdown Backfeed Window.....	38
Figure 2.68 Breakdown Closing Window	39
Figure 2.69 Partial Breakdown Closing Window	39
Figure 2.70 Breakdown Fully Closing Window.....	40
Figure 2.71 To Add & Select another affected element for the Breakdown	40
Figure 2.72 Status Window Displaying Faulty Cable	41
Figure 2.73 Faulty Cable Information Update Window.....	41
Figure 2.74 Faulty Cable Closing Window.....	41
Figure 2.75 Cable Joint Information Window	42
Figure 2.76 Status Window displaying Breakdown Maintenance.....	43
Figure 2.77 Breakdown Maintenance Information Update Window.....	43
Figure 2.78 Breakdown Maintenance Closing Window.....	43
Figure 2.79 DT FIR Information Window	44
Figure 2.80 DOMS Load Shedding Registration Window	45
Figure 2.81 Pop up Window displaying Load Shedding ID.....	45
Figure 2.82 Status Page displaying Load Shedding	45
Figure 2.83 Load Shedding Information Update Window	46
Figure 2.84 Load Shedding Closing Window	46
Figure 2.85 Load Shedding Partially Closing Window	47

Figure 3.1 Complaint Registration Page	49
Figure 3.2 Consumer Complaint Information Page	50
Figure 3.3 Complaint Registration Message	50
Figure 3.4 Complaints Status	51
Figure 3.5 Complaint Categories Tabs	51
Figure 3.6 Complaint Search Box	52
Figure 3.7 Page Auto Refresh Settings	52
Figure 3.8 Colour Coding of Complaints	53
Figure 3.9 Complaint Number as Hyperlink.....	53
Figure 3.10 Complaint Detail's Page.....	54
Figure 3.11 Complaints Details Update Information Page	54
Figure 3.12 Complaint Details Page.....	55
Figure 3.13 Complaints details Page for Assignment	55
Figure 3.14 Complaints Assignment Page.....	56
Figure 3.15 Complaint Assignment Message.....	56
Figure 3.16 Complaint Closing Page	57
Figure 3.17 Complaint Closing Message.....	58
Figure 3.18 Complaint Closing Page (Street Light)	58
Figure 3.19 Details of Streetlight Material Used.....	59
Figure 3.20 Complaints Details page for Reassignment	59
Figure 3.21 Closed Complaints Status Page	60
Figure 3.22 Areas under Outage Information Page.....	61
Figure 3.23 Complaints of an Area under Outage Status	61
Figure 3.24 Areas under Outage on Complaints Registration Page	62
Figure 3.25 Navigation to CMS Team Management.....	62
Figure 3.26 Adding new Linemen or Assistant for Registered Complaint	63
Figure 3.27 Status Message for Addition of Linemen	63
Figure 3.28 Removal of new Linemen or Assistant for Registered Complaint	64
Figure 3.29 Status Message for Removal of Linemen	64
Figure 3.30 Addition of Team for Registered Complaints	65
Figure 3.31 Selection of Lineman and assistant for a Team	65
Figure 3.32 Pop Up window displaying successful team Creation.....	66
Figure 3.33 Removal of Team from CMS	66
Figure 3.34 Pop Up window displaying successful Team Removal	66
Figure 3.35 Navigation to CMS Reports.....	67
Figure 3.36 CMS - MIS Reports	67
Figure 3.37 Consumer History Reports.....	68

1. EMS: Extra High Voltage Management System

1.1 To Access EMS Module

To Access the **EMS Module** Go to Intelligent Outage Management System (192.168.0.53). Enter the valid User credentials to access the EMS Dashboard.

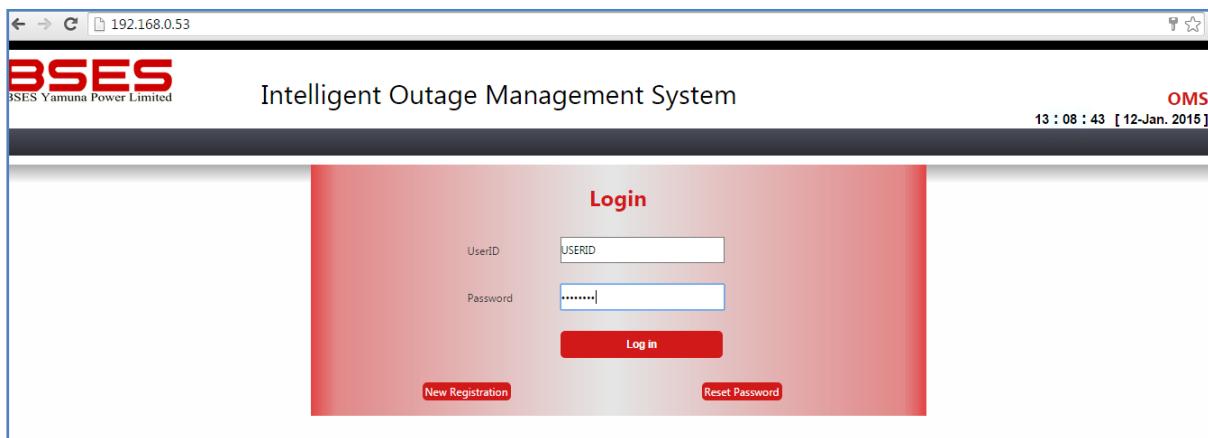


Figure 1 Intelligent Outage Management System Login Page

The EMS dashboard comprises of four process listed as the submenus:

- Status: **Status page** displays the current status of all open shutdowns, breakdowns and load shedding.
- Shutdown: To **perform and register the Shutdown** activity, there are two types of shutdown activities viz. **Planned or Emergency Shutdown** therefore, a user can register one of the two based on the usage.
- Breakdown: To **perform and register the Breakdown** activity.
- Load shedding: To **perform and register the load shedding** information.

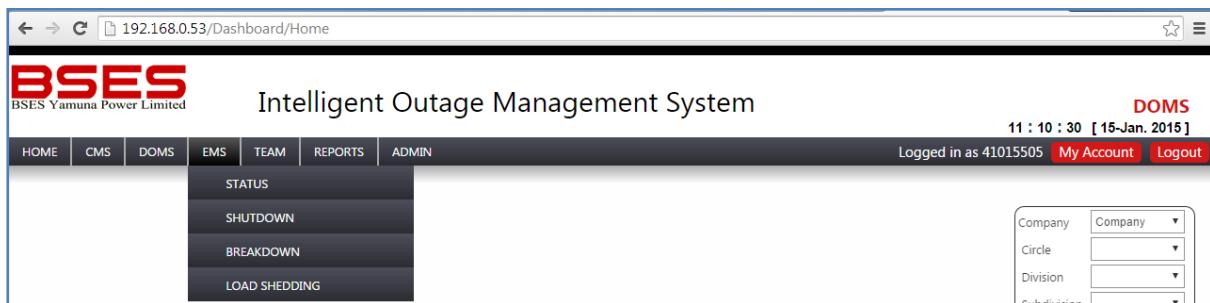


Figure 1.2 EMS Dashboard

1.2 Review the EMS Status

- Select the Status option from the EMS dropdown list, to review the status of all the current open, pending and confirmed shutdowns, breakdowns, load shedding and details of the faulty cables

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Intelligent Outage Management System

EMS
11 : 14 : 20 [15-Jan. 2015]

HOME CMS DOMS EMS TEAM REPORTS ADMIN Logged in as 41015505 My Account Logout

OPEN FAULTS		ALL	LOAD SHEDDING	PLANNED	EMERGENCY	FAULTY CABLE	BREAKDOWN
Id	FAULT ID	CIRCLE	GRID	OPEN TIME	SCHEDULE TIME		
P14011500015	SE1401150002	South East	KANTI NAGAR (33/11kV) GRID SSTN	14-01-2015 12:56:36	14-01-2015 12:56:36		
P15011500001	NE15011500001	North East	DILSHAD GARDEN (66/11kV) GRID SSTN	15-01-2015 10:15:46	15-01-2015 10:15:46		
P15011500002	SE15011500001	South East	KONDLI GHARAUJI (66/11kV) GRID SSTN	15-01-2015 11:00:19	15-01-2015 11:00:19		
P15011500004	SE15011500002	South East	GURU ANGAD NAGAR (33/11kV) GRID SSTN	15-01-2015 11:01:19	15-01-2015 11:01:19		
P15011500006	CE15011500001	Central	DMS 33/11kV GRID S/STN	15-01-2015 11:04:24	15-01-2015 11:04:24		

STATUS ALL

Figure 1.3 the EMS Status Window

1.3 EMS Shutdown Process

- Select the Shutdown process from the EMS dropdown list to register the Shutdown activity.

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EMS
10 43 07 [23-Jan. 2015]

HOME CMS DOMS EMS TEAM REPORTS PREDICTION ENGINE ADMIN Logged in as 41015505 My Account Logout

SHUTDOWN		OMS	GIS
Shutdown Type:*	PLANNED	Circle:*	SELECT CIRCLE
Grid:*		Feeder Voltage:*	66KV
Feeder:*			
Shutdown Time:	23-01-2015 10:43:02	Expected Duration:*	0 Hrs. 0 Min. 23-01-2015 10:43:02
Load (Amp)*		Remarks	
Name:*		REQUESTED BY	
Designation:		Employee No:	
		Contact No:	
		<input type="button" value="Register"/>	<input type="button" value="Clear"/>

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Figure 1.4 EMS Shutdown Registration Window

- Select the type of shutdown which needs to be registered from the dropdown.

The screenshot shows a web-based application interface for managing shutdowns. At the top, there's a navigation bar with links for HOME, CMS, DOMS, EMS, TEAM MANAGEMENT, REPORTS, and ADMIN. On the right side of the header, it says "Logged in as 41015505" followed by "My Account" and "Logout". Below the header, the word "SHUTDOWN" is centered in a bold font. Underneath, there are several input fields and dropdown menus. The first dropdown under "Shutdown Type" has "PLANNED" selected. The second dropdown under "Grid" also has "PLANNED" selected. To the right, there are fields for "Circle" (set to "SELECT CIRCLE") and "Feeder Voltage" (set to "66KV"). At the bottom right of the page area, there are two buttons labeled "OMS" and "GIS".

Figure 1.5 the Shutdown Type List

1.3.1 For the Planned Shutdown:

To register a planned shutdown:

- Select the BYPL Circle, Grid and Feeder Voltage for the desired and planned shutdown

This screenshot shows the continuation of the shutdown registration process. The "Circle" dropdown menu is highlighted with a green oval, showing options like "CENTRAL", "SELECT CIRCLE", "CENTRAL" (which is selected), "NORTH EAST", and "SOUTH EAST". The other fields remain the same as in Figure 1.5: "Shutdown Type" is "PLANNED" and "Grid" is "SELECT GRID".

Figure 1.6 Select the BYPL Circle

This screenshot shows the final step in selecting the shutdown details. A large green oval surrounds the "SELECT GRID" dropdown menu, which lists numerous grid locations such as DMS, FAIZ ROAD, B.G. ROAD, G.B. PANT, 220KV GAS TURBINE POWER, SHANKAR ROAD, 220KV INDIRA PRASHTHA POWER HOUSE GRID S/STN, ANAND PARBAT, I.G. STADIUM, 220KV SABJI MANDI GRID S/STN, MINTO ROAD, TOWN HALL, 220KV ISBT KASMERE GATE GRID S/STN, PRASAD NAGAR, SHAstri PARK, MOTIA KHAN, LAHORI GATE, MCD CIVIC CENTER GRID S/STN, and FOUNTAIN. Other fields include "Shutdown Type" (PLANNED), "Grid" (SELECT GRID), "Circle" (CENTRAL), "Feeder Voltage" (66KV), and "Feeder" (empty). At the bottom, there are fields for "Duration" (0 Hrs. 0 Min.) and a timestamp (12-01-2015 14:41:47).

Figure 1.7 Select the Grid

The screenshot shows the 'SHUTDOWN' section of a software interface. At the top, there are tabs for HOME, CMS, DOMS, EMS, TEAM MANAGEMENT, REPORTS, and ADMIN. On the right, it says 'Logged in as 41015505' with links for 'My Account' and 'Logout'. Below these are buttons for 'OMS' and 'GIS'. The main area is titled 'SHUTDOWN' and contains fields for 'Shutdown Type' (set to 'PLANNED'), 'Circle' (set to 'CENTRAL'), and 'Grid' (set to 'SELECT GRID'). To the right is a dropdown menu for 'Feeder Voltage' with options: '66KV', '66KV' (highlighted in blue), '33KV', and '11KV'. A green rectangular box highlights the '66KV' option.

Figure 1.8 Select the Feeder Voltage

- All feeders for the selected grid and feeder voltage would be displayed. The listed feeders can be selected using the checkbox option given.
- The displayed list shows the feeder name, list of the affected elements of the feeders and list of the reason to be selected for the resulted fault.

This screenshot shows the 'SHUTDOWN' module with more detailed information. It includes fields for 'Shutdown Type' (PLANNED), 'Circle' (CENTRAL), 'Grid' (ANAND PARBAT 33/11KV GRID S/STN), and 'Feeder Voltage' (33KV). A green arrow points to the first item in a list of feeders. The list contains 15 entries, each with a checkbox and a description. To the right of the list are dropdown menus for 'Element Type' (e.g., BREAKER, TAP OF TRAN) and 'Status' (e.g., BATTERY BA, BATTERY CH.). Below the list are fields for 'Shutdown Time' (12-01-2015 14:41:47), 'Expected Duration' (2 Hrs. 0 Min. 12-01-2015 16:41:47), 'Load (Amp)' (empty), and 'Remarks' (empty).

Figure 1.9 List of the Feeders

This screenshot shows the 'SHUTDOWN' module with a list of feeders and their affected elements. The left side lists 15 feeders with checkboxes. The right side shows a dropdown menu for 'Element Type' with various options like BREAKER, TAP OF TRAN, BATTERY BANK, etc. Each element type has a corresponding dropdown for 'Status' (e.g., CH. ▾). The 'BREAKER' option is currently selected in the dropdown.

Feeder Description	Element Type	Status
(008222)->ANAND PARBAT GRID_33KV_CB_20 MVA PR TR_1 (SIEMENS, VCB)	BREAKER	CH. ▾
(008198)->ROHTAK ROAD 33KV I/C_CB_ANAND PARBAT GRID (SIEMENS, VCB)	TAP OF TRAN	CH. ▾
(008223)->ANAND PARBAT GRID_33KV_CB_NO.-3 (PR TR) (SIEMENS, VCB)	BATTERY BANK	CH. ▾
(008213)->I/C 33KV SHASTRI PARK GRID_CB_ANAND PARBAT GRID (SIEMENS, VCB)	BATTERY CHARGER	CH. ▾
(008210)->ANAND PARBAT GRID_33KV_CB_FAIZ ROAD GRID O/G (SIEMENS, VCB)	BREAKER	CH. ▾
(008221)->ANAND PARBAT GRID_33KV_CB_CKT-1SHASTRI PARK 33kV I/C (SIEMENS, VCB)	BUS BAR	CH. ▾
(008211)->ANAND PARBAT GRID_33KV_CB_BUS COUPLER (SIEMENS, VCB)	BUS COUPLER	CH. ▾
(008227)->ANAND PARBAT GRID_33KV_CB_20 MVA PR TR_2 (SIEMENS, VCB)	BUS SECTION	CH. ▾
(1930338)->ANAND PARBAT GRID_33KV_BUS SECTION NO-2	CABLE	CH. ▾
(1930339)->ANAND PARBAT GRID_33KV_BUS SECTION NO-1	CONDUCTOR	CH. ▾
	CONTROL CABLE	CH. ▾
	CT	CH. ▾
	FEEDER	CH. ▾
	GRID	CH. ▾
	INCOMER	CH. ▾
	INSULATOR	CH. ▾
	ISOLATOR	CH. ▾
	JUMPER	CH. ▾
	LOCAL T/F	CH. ▾
	NCT	CH. ▾
	O/H FDR	CH. ▾
	OVERLOADING	CH. ▾

Figure 1.10 List of the Affected Feeder Elements.

<input checked="" type="checkbox"/> (008222)->ANAND PARBAT GRID_33KV_CB_20 MVA PR TR_1 (SIEMENS, VCB)	BREAKER	TAP OF TRAN
<input type="checkbox"/> (008198)->ROHTAK ROAD 33KV I/C_CB_ANAND PARBAT GRID (SIEMENS, VCB)	BATTERY BA	BATTERY CHARGER COMMUNICATION RELATED CONDUCTOR SNAPPING DISTRIBUTION TRANSFORMER FAILED/BURNT EHV OUTAGE
<input type="checkbox"/> (008223)->ANAND PARBAT GRID_33KV_CB_NO.-3 (PR TR) (SIEMENS, VCB)	BATTERY BA	FIRE INSTALLATION OF HT/LT SYSTEM LOAD DISAPPEAR MAINTENANCE WORK OTHERS
<input type="checkbox"/> (008213)->I/C 33KV SHASTRI PARK GRID_CB_ANAND PARBAT GRID (SIEMENS, VCB)	BATTERY BA	OTHERS-VOLTAGE OVERLOADING OF SYSTEM
<input type="checkbox"/> (008210)->ANAND PARBAT GRID_33KV_CB_FAIZ ROAD GRID O/G (SIEMENS, VCB)	BATTERY BA	TAP OF TRANSFORMER
<input type="checkbox"/> (008221)->ANAND PARBAT GRID_33KV_CB_CKT-1SHASTRI PARK 33KV I/C (SIEMENS, VCB)	BATTERY BA	TRANSIENT FAULT TRIPPING BREAKER MECHANISM FAULTY MOISTURE PROBLEM
<input type="checkbox"/> (008211)->ANAND PARBAT GRID_33KV_CB_BUS COUPLER (SIEMENS, VCB)	BATTERY BA	FAULT ON OUTGOING FEEDER JUMPER BURNT/SNAPED
<input type="checkbox"/> (008227)->ANAND PARBAT GRID_33KV_CB_20 MVA PR TR_2 (SIEMENS, VCB)	BATTERY BA	BATTERY CH
<input type="checkbox"/> (1930338)->ANAND PARBAT GRID_33KV_BUS SECTION NO-2	BATTERY BA	
<input type="checkbox"/> (1930339)->ANAND PARBAT GRID_33KV_BUS SECTION NO-1	BATTERY BA	

Figure 1.11 List of the Reasons of the Feeder Fault

- Select one or more affected feeders along with the affected element and reason by clicking on the checkbox.
- Fill in the details of the Expected Duration, Load Affected, and Remarks.
- Fill all the details in the Requested By section.
- All the fields which are mandatory and needs to be filled are marked by the * sign.

Feeder: [*]	<input checked="" type="checkbox"/> (008222)->ANAND PARBAT GRID_33KV_CB_20 MVA PR TR_1 (SIEMENS, VCB)	BREAKER	TAP OF TRAN
	<input checked="" type="checkbox"/> (008198)->ROHTAK ROAD 33KV I/C_CB_ANAND PARBAT GRID (SIEMENS, VCB)	BUS BAR	EHV OUTAGE
	<input checked="" type="checkbox"/> (008223)->ANAND PARBAT GRID_33KV_CB_NO.-3 (PR TR) (SIEMENS, VCB)	BREAKER	LOAD DISAPF
	<input type="checkbox"/> (008213)->I/C 33KV SHASTRI PARK GRID_CB_ANAND PARBAT GRID (SIEMENS, VCB)	BATTERY BA	BATTERY CH.
	<input type="checkbox"/> (008210)->ANAND PARBAT GRID_33KV_CB_FAIZ ROAD GRID O/G (SIEMENS, VCB)	BATTERY BA	BATTERY CH.
	<input type="checkbox"/> (008221)->ANAND PARBAT GRID_33KV_CB_CKT-1SHASTRI PARK 33KV I/C (SIEMENS, VCB)	BATTERY BA	BATTERY CH.
	<input type="checkbox"/> (008211)->ANAND PARBAT GRID_33KV_CB_BUS COUPLER (SIEMENS, VCB)	BATTERY BA	BATTERY CH.
	<input type="checkbox"/> (008227)->ANAND PARBAT GRID_33KV_CB_20 MVA PR TR_2 (SIEMENS, VCB)	BATTERY BA	BATTERY CH.
	<input type="checkbox"/> (1930338)->ANAND PARBAT GRID_33KV_BUS SECTION NO-2	BATTERY BA	BATTERY CH.
	<input type="checkbox"/> (1930339)->ANAND PARBAT GRID_33KV_BUS SECTION NO-1	BATTERY BA	BATTERY CH.
Shutdown Time:	12-01-2015 14:41:47	Expected Duration: [*]	2 Hrs. 0 Min. 12-01-2015 16:41:47
Load (Amp)*	100	Remarks	write your remarks...
Name: [*]	Fill Name of Requested by.....	Employee No:	
Designation:		Contact No:	
REQUESTED BY		Register Clear	

Figure 1.12 Details to be Filled in the Shutdown Register Window

- After filling all fields in Shutdown Register Window, Click on Register Button to save and register the shutdown information.
- The popup with **shutdown id** will be displayed for the registered shutdown after the click on the register button.

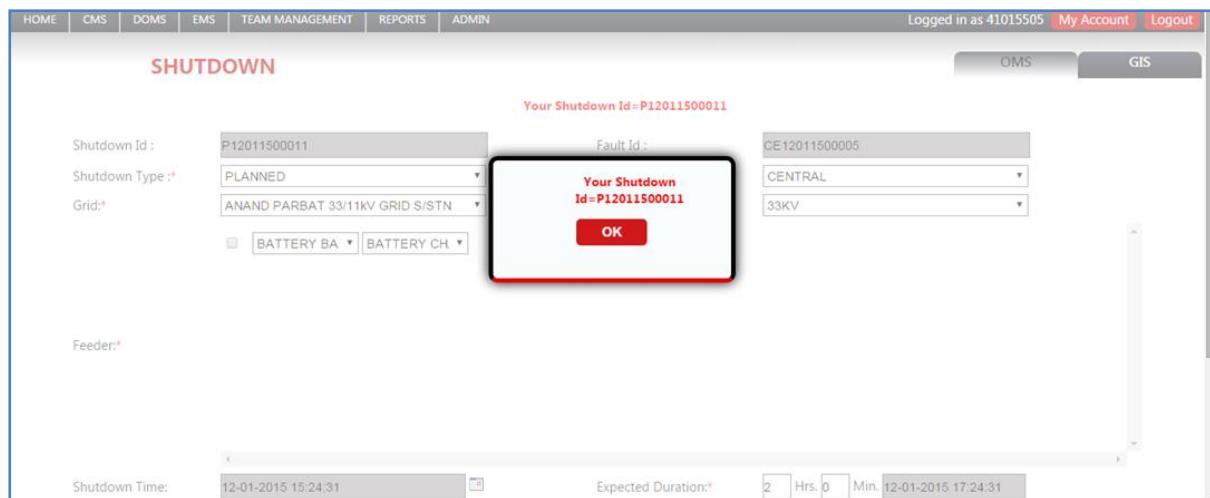


Figure 1.13 Pop up window with the Planned Shutdown ID.

- Click on status option again to check the status of the created shutdown, the assigned id would be listed and displayed on the status window.

STATUS					
SHUTDOWN		LOAD SHEDDING		PLANNED	
BREAKDOWN		ALL		EMERGENCY	
Id	Type	GRID	OPEN TIME	SCHEDULE TIME	
P1201150003	LOAD SHEDDING	220 KV PATPARGANJ GRID SSTN (220/66/11KV, TRANSCO)	07-01-2015 06:59:22	07-01-2015 08:59:22	
P1201150002	SE0801150003	South East	220KV GAZIPUR GRID SSTN (220/66/11KV, TRANSCO)	08-01-2015 18:47:27	08-01-2015 19:47:27
P1201150001	CE1201150001	Central	DMS 33/11KV GRID S/STN	12-01-2015 09:45:28	12-01-2015 11:45:28
P1201150007	NE1201150002	North East	GHONDA (66/33/11KV) GRID SSTN	12-01-2015 12:35:00	12-01-2015 14:35:00
P1201150009	CE1201150004	Central	FOUNTAIN 33/11KV GRID S/STN	12-01-2015 13:00:00	12-01-2015 15:00:00
P1201150010	SE1201150004	South East	GH-II GRID (66/11KV) SSTN	12-01-2015 14:00:50	12-01-2015 16:00:50
P1201150008	NE1201150005	North East	GHONDA (66/33/11KV) GRID SSTN	12-01-2015 15:04:41	12-01-2015 17:04:41
P1201150011	CE1201150005	Central	ANAND PARBAT 33/11KV GRID S/STN	12-01-2015 15:24:31	12-01-2015 17:24:31

Figure 1.14 Status Window Displaying the just created Planned Shutdown ID

- Click on the created Shutdown ID and it would redirect to the new page for confirmation.

The screenshot shows the 'CONFIRMATION' page for a shutdown. It has a green border around the top section. The top section contains fields for 'Shutdown Type' (set to 'PLANNED'), 'Circle' (set to 'CENTRAL'), 'Grid' (set to 'ANAND PARBAT 33/11KV GRID S/STN'), 'Feeder Voltage' (set to '66KV'), and 'Feeder ID' (set to 'FDR@008222'). Below this, there's a note field containing '(008222)->ANAND PARBAT GRID_33KV_CB_20 MVA PR TR_1 (SIEMENS, VCB)'. There are also fields for 'EFFECTED ELEMENT' and 'BREAKER REASON' (both set to 'MAINTENANCE WORK').

Below the top section, there's a 'Feeder' dropdown. Further down, there are fields for 'Shutdown Time' (set to '23-01-2015 10:28:26'), 'Expected Duration' (set to '1 Hrs. 0 Min.'), 'Load (Kwh)' (set to '100'), 'PTW No.', 'Remarks' (text area containing 'TEST'), 'Name' (set to 'TEST'), and 'Designation'. At the bottom, there are 'REQUESTED BY' sections for 'Employee No.' and 'Contact No.', and two buttons: 'Confirm' and 'Reject'.

Figure 1.15 Confirmation page for the registered shutdown.

- Check the status page and click again on the shutdown ID to update information for back feed and close options.
- Update the Expected Duration, Permit to work No and Remarks fields.

Grid:^{*} ANAND PARBAT 33/11KV GRID S/STN Feeder Voltage:^{*} 66KV

FEEDER ID.:> FDR@008222 FEEDER NAME...> (008222)-> ANAND PARBAT GRID_33KV_CB_20 MVA PR TR_1 EFFECTED ELEMENT...> BREAKER REASON...> MAINTENANCE WORK

Feeder:^{*}

Shutdown Time:^{*} 23-01-2015 10:28:26 Expected Duration:^{*} 1 Hrs. 0 Min. 23-01-2015 11:28:26

Load (Amp):^{*} 100 PTW No:

Remarks: TEST

REQUESTED BY
Name:^{*} TEST Employee No:
Designation: TEST Contact No:

Backfeed Close

Update Clear

Figure 1.16 Update information for the Registered Planned Shutdown ID.

- User can close the shutdown by ticking on the Close checkbox option.
- The close window would appear and user can choose closing status
- The closing status can be **fully or partial** according to the existing condition of the shutdown.

Grid:^{*} ANAND PARBAT 33/11KV GRID S/STN Feeder Voltage:^{*} 66KV

FEEDER FDR@008222 FEEDER (008222)-> ANAND PARBAT GRID_33KV_CB_20 MVA PR EFFECTED ELEMENT...> BATTERY CHARGER REASON...> CONDUCTOR SNAPPING

Feeder:^{*}

Shutdown Time:^{*} 12-01-2015 15:24:31 Expected Duration:^{*} 2 Hrs. 0 Min. 12-01-2015 17:24:31

Load (Amp):^{*} 100 PTW No:

Remarks: remarks

INFORMED BY
Name:^{*} test Employee No:
Designation: test Contact No:

Backfeed Close

Update Clear

Figure 1.17 Shutdown Close Window

- User can tick on backfeed option. The Backfeed window would popup and user can enter the Backfeed details for single or multiple feeders.

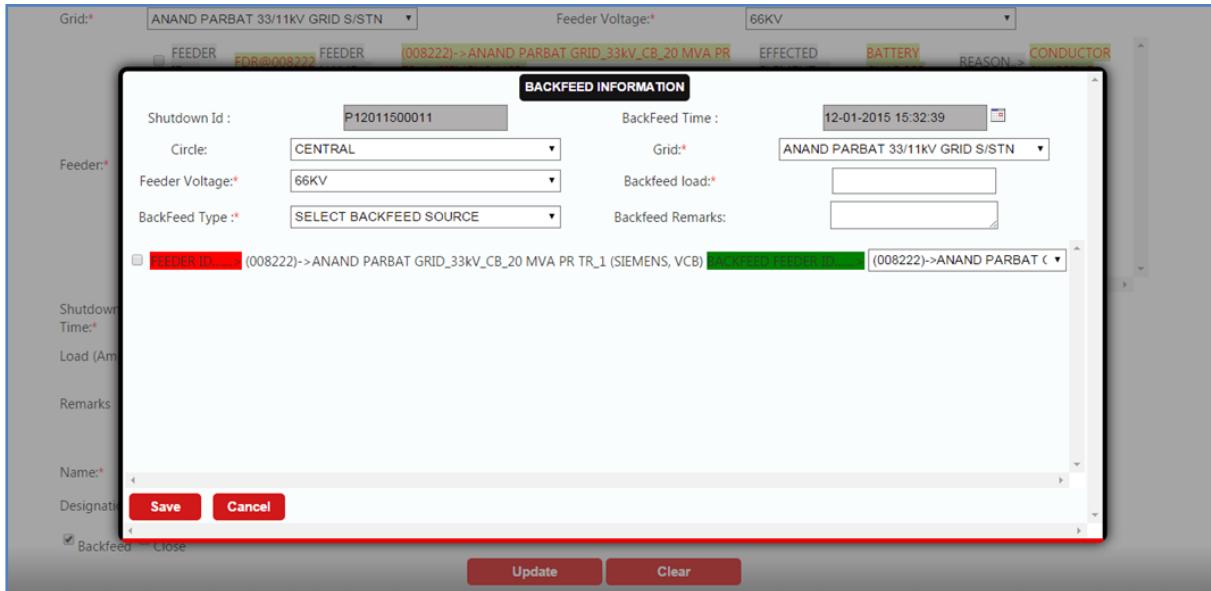


Figure 1.18 Backfeed Information Window

1.3.2 For Emergency Shutdown

- Perform the same steps as of the registering the Planned Shutdown as shown below:
- Select the shutdown type “Emergency” and also select the BYPL Circle, Grid and Feeder Voltage.
- Select the checkboxes for the feeder selections along with the affected elements and the reason for the faults.
- Fill in all the information viz. Expected Duration, Load Affected, and Remarks.
- Fill all the details in the Requested By section.

Figure 1.19 Details to be Filled in the Shutdown Register Window

- All the fields which are mandatory and needs to be filled are marked by the * sign.

- After filling all fields in Shutdown Register Window, Click on Register Button to save and register the shutdown information.
- The popup with **shutdown id** will be displayed for the registered shutdown after the click on the register button
- In Emergency Shutdown Register Scenario, The confirmation of the registration would not be required.

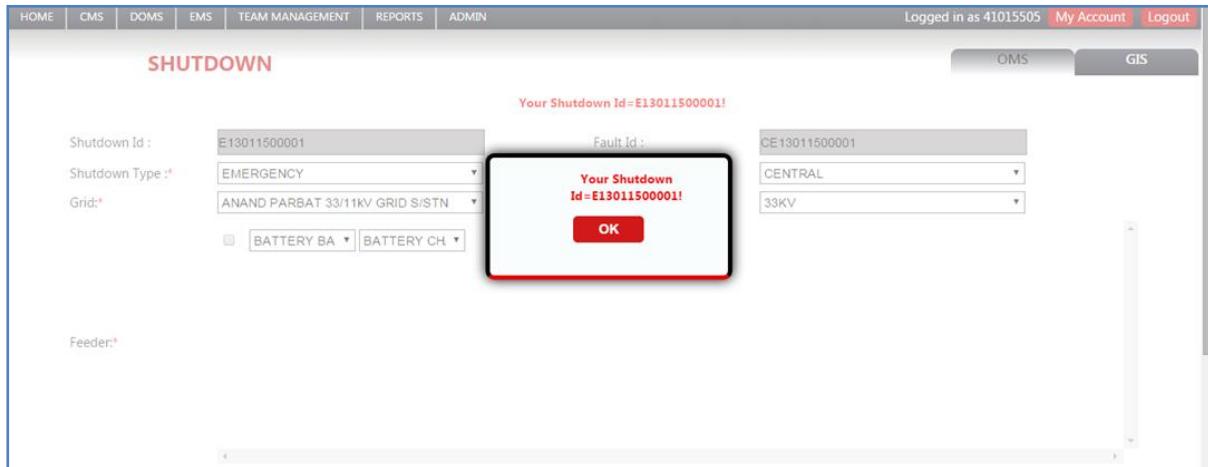


Figure 1.20 Pop up window with the Emergency Shutdown ID

- Check the status page and click again on the shutdown ID to update information for back feed and close options.

OPEN FAULTS						ALL	LOAD SHEDDING	PLANNED	EMERGENCY	FAULTY CABLE	BREAKDOWN
ID	FAULT ID	CIRCLE	GRID	OPEN TIME	SCHEDULE TIME						
E13011500001	NE13011500001	North East	BHAGIRATHI (66/33/11kV) GRID SSTN	13-01-2015 00:40:42	13-01-2015 02:40:42						
E13011500007	NE13011500004	North East	BHAGIRATHI (66/33/11kV) GRID SSTN	13-01-2015 09:43:52	13-01-2015 09:43:52						
E13011500005	NE13011500003	North East	BHAGIRATHI (66/33/11kV) GRID SSTN	13-01-2015 09:49:41	13-01-2015 11:49:41						
E13011500001	CE13011500001	Central	ANAND PARBAT 33/11kV GRID S/STN	13-01-2015 09:55:08	13-01-2015 10:55:08						

Below the table, there are search filters: STATUS (set to ALL), a search input field, and buttons for SEARCH and CLEAR.

Figure 1.21 Status Window Displaying the just created Emergency Shutdown ID

- The user can update the Expected Duration, Permit to work No and Remarks fields.

- User can close the shutdown by ticking on the Close checkbox option.

Shutdown

Shutdown Id : E13011500001 SAP Notification No : test

Shutdown Type : EMERGENCY Circle : CENTRAL

Grid : ANAND PARBAT 33/11KV GRID S/STN Feeder Voltage : 66KV

FEEDER ID : FDR@008222 FEEDER NAME : (008222)->ANAND PARBAT GRID_33KV_CB_20 MVA PR TR_1 EFFECTED ELEMENT...> (SIEMENS, VCB) BREAKER REASON...> MAINTENANCE WORK

Feeder:

Shutdown Time: 13-01-2015 09:55:08 Expected Duration: 1 Hrs. 0 Min. 13-01-2015 10:55:08

Load (Amp): 100 PTW No:

Remarks

REQUESTED BY

Name: TEST Employee No:

Designation: Contact No:

Backfeed Close

Update Clear

Figure 1.22 Update information for the Registered Emergency Shutdown ID.

- The close window would appear and user can choose closing status
- The closing status can be fully or Partial according to the existing condition of the shutdown.

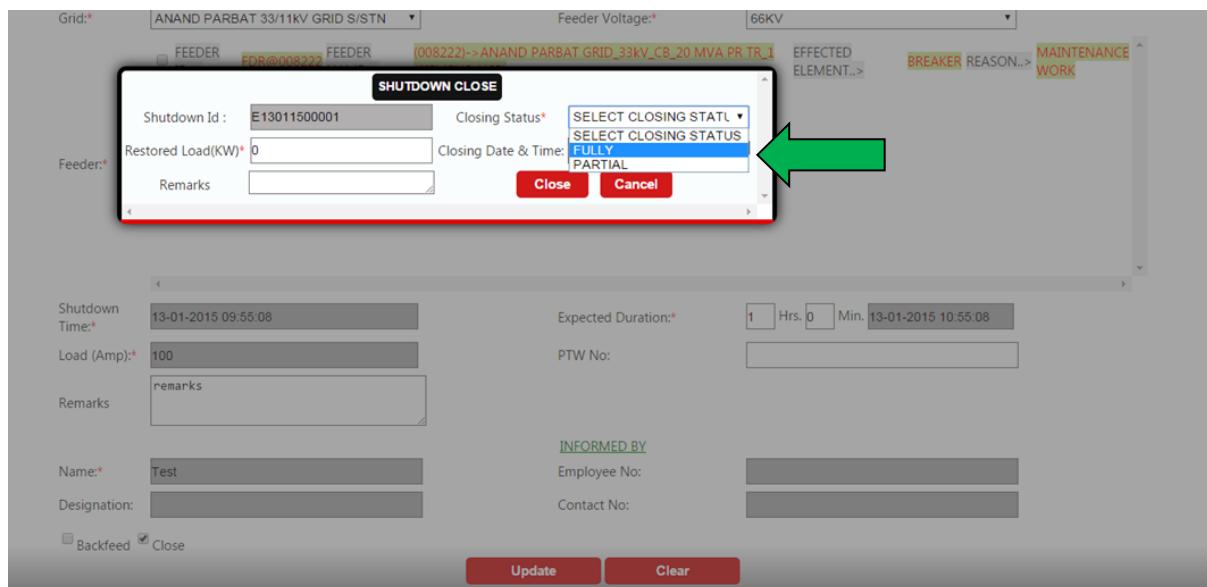


Figure 1.23 Shutdown Close Window

- After shutdown close, the shutdown ID would not be listed and displayed in the status window.

Id	FAULT ID	CIRCLE	GRID	OPEN TIME	SCHEDULE TIME
NEI13011500001	NEI13011500001	North East	BHAGIRATHI (66/33/11kV) GRID SSTN	13-01-2015 00:40:42	13-01-2015 02:40:42
NEI13011500004	NEI13011500004	North East	BHAGIRATHI (66/33/11kV) GRID SSTN	13-01-2015 09:43:52	13-01-2015 09:43:52
NEI13011500003	NEI13011500003	North East	BHAGIRATHI (66/33/11kV) GRID SSTN	13-01-2015 09:49:41	13-01-2015 11:49:41

STATUS ALL

Figure 1.24 Status Window

- The user can tick on backfeed option. The Backfeed window would popup and user can enter the Backfeed details for single or multiple feeders in the Emergency Shutdown Situation.

BACKFEED INFORMATION

Shutdown Id : P12011500011 BackFeed Time : 12-01-2015 15:32:39
 Circle: CENTRAL Grid: ANAND PARBAT 33/11kV GRID S/STN
 Feeder Voltage: 66KV Backfeed load:
 BackFeed Type : SELECT BACKFEED SOURCE Backfeed Remarks:
 FEEDER TO ... (008222)->ANAND PARBAT GRID_33KV_CB_20 MVA PR TR_1 (SIEMENS, VCB) (008222)->ANAND PARBAT CB_20 MVA PR TR_1 (SIEMENS, VCB)

Save Cancel Update Clear

Figure 1.25 Backfeed Window

1.4 For Breakdown register

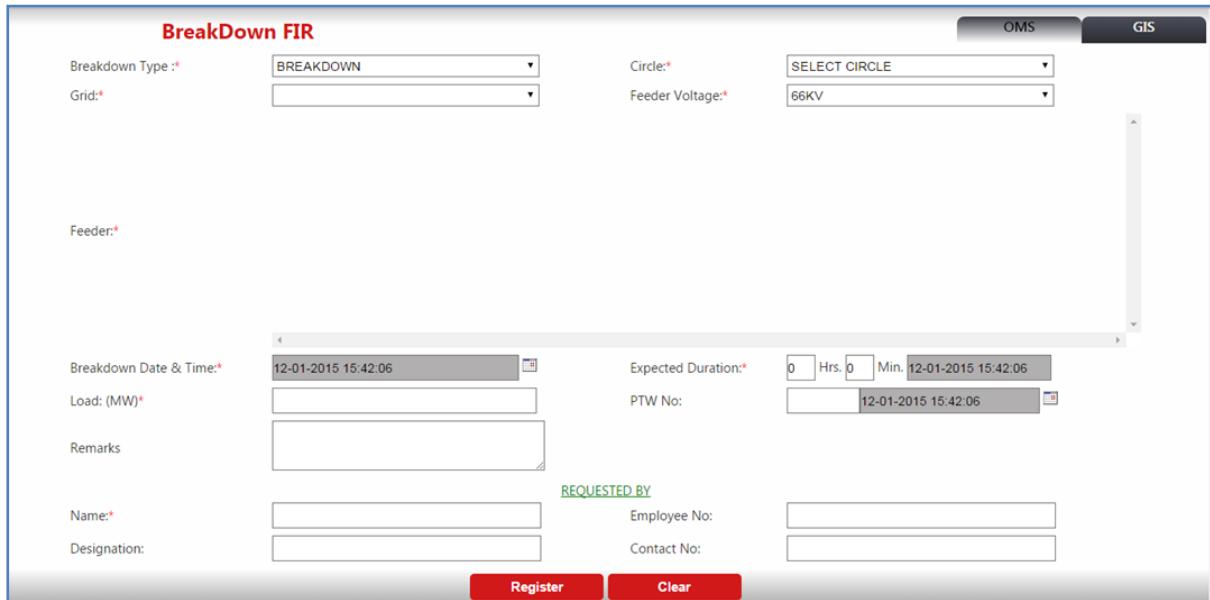
- Select the breakdown option from the EMS dropdown options for registering the breakdown.



The screenshot shows a web-based management system interface. At the top, there is a navigation bar with links: HOME, CMS, DOMS, EMS (which is highlighted in red), TEAM MANAGEMENT, REPORTS, and ADMIN. To the right of the navigation bar, it says "Logged in as 41015505 My Account Logout". Below the navigation bar, there is a secondary menu with STATUS, OPEN FAULT, SHUTDOWN, and BREAKDOWN. The BREAKDOWN option is also highlighted in red. Underneath this is a table with columns: Id, Status, GRID, OPEN TIME, and SCHEDULE TIME. The table contains several rows of data, each representing a breakdown event with its details like location and time.

Id	Status	GRID	OPEN TIME	SCHEDULE TIME					
ALL	LOAD SHEDDING	PLANNED	EMERGENCY	FAULTY CABLE	BREAKDOWN				
P12011500004	SE0701	0 KV PATPARGANJ GRID SSTN (220/66/11kV, TRANSCO)	07-01-2015 06:59:22	07-01-2015 08:59:22					
P12011500009	SE08011500003	South East 220KV GAZIPUR GRID SSTN (220/66/11kV, TRANSCO)	08-01-2015 18:47:27	08-01-2015 19:47:27					
P12011500001	CE12011500001	Central DMS 33/11kV GRID S/STN	12-01-2015 09:45:28	12-01-2015 11:45:28					
P12011500007	NE12011500002	North East GHONDA (66/33/11kV) GRID SSTN	12-01-2015 12:35:00	12-01-2015 14:35:00					
P12011500009	CE12011500004	Central FOUNTAIN 33/11kV GRID S/STN	12-01-2015 13:00:00	12-01-2015 15:00:00					
P12011500010	SE12011500004	South East GH-II GRID (66/11kV) SSTN	12-01-2015 14:00:50	12-01-2015 16:00:50					
P12011500005	NE12011500005	North East GHONDA (66/33/11kV) GRID SSTN	12-01-2015 15:04:41	12-01-2015 17:04:41					

- The breakdown FIR page would be open to register the breakdown.
- Select the BYPL Circle, Grid and Feeder Voltage for the desired and planned breakdown.



The screenshot shows a registration form titled "BreakDown FIR". The form includes fields for Breakdown Type (set to "BREAKDOWN"), Circle (with a dropdown menu labeled "SELECT CIRCLE"), Grid (with a dropdown menu), Feeder Voltage (set to "66KV"), Feeder (with a dropdown menu), Breakdown Date & Time (set to "12-01-2015 15:42:06"), Expected Duration (set to "0 Hrs. 0 Min. 12-01-2015 15:42:06"), PTW No (with a dropdown menu set to "12-01-2015 15:42:06"), Remarks (a text area), REQUESTED BY section (Name and Employee No fields), and Contact No (a text area). At the bottom are "Register" and "Clear" buttons.

Figure 1.26 Select the BYPL Circle, Grid and Feeder Voltage for registering the breakdown

- Select the checkboxes for the feeder selections along with the affected elements and the reason for the faults.
- Fill in all the information viz. Expected Duration, Load Affected, and Remarks.
- Fill all the details in the Requested By section.
- All the fields which are mandatory and needs to be filled are marked by the * sign.

The screenshot shows the 'BreakDown FIR' form. At the top right are 'OMS' and 'GIS' buttons. The form includes fields for 'Breakdown Type' (set to 'BREAKDOWN'), 'Circle' (set to 'CENTRAL'), 'Grid' (set to 'ANAND PARBAT 33/11KV GRID S/STN'), 'Feeder Voltage' (set to '33KV'), and 'Feeder' (a dropdown menu listing various fault reasons). Below these are sections for 'Breakdown Date & Time' (set to '13-01-2015 10:32:20'), 'Expected Duration' (set to '1 Hrs 0 Min'), 'Load (MW)' (set to '100'), and 'PTW No.' (set to '12/22 13-01-2015 10:32:20'). A 'Remarks' text area contains the placeholder 'remarks..'. On the right side of the form, there are several pairs of dropdown menus for selecting bus bars and battery components like 'EHV OUTAGE', 'BATTERY BA', 'BATTERY CH', etc.

Figure 1.27 Select the Feeder name, Affected Element and the Fault Reason for the Breakdown.

This screenshot shows a registration form titled 'REQUESTED BY'. It has fields for 'Name' (with 'Test' entered), 'Designation' (empty), 'Employee No.' (empty), and 'Contact No.' (empty). At the bottom are 'Register' and 'Clear' buttons.

Figure 28 Fill in the Requested By Details for Registering the Breakdown

- After the user register the breakdown. The breakdown ID would be generated and displayed in the popup window.

This screenshot shows the 'BreakDown FIR' form again. The 'Breakdown Type' is set to 'BREAKDOWN' and 'Grid' to 'ANAND PARBAT 33/11KV GRID S/STN'. A modal dialog box in the center displays the message 'Your Breakdown Id=B13011500008' with an 'OK' button. The top right of the page shows the user is logged in as '41015505' with 'My Account' and 'Logout' buttons. The top navigation bar includes links for HOME, CMS, DDOMS, EMS, TEAM MANAGEMENT, REPORTS, and ADMIN.

Figure 1.29 Breakdown ID in the Pop up window

- The breakdown ID is generated and can be checked in the Status of the breakdown.

OPEN FAULTS					
	FAULT ID	CIRCLE	GRID	OPEN TIME	SCHEDULE TIME
B13011500001	NEI13011500001	North East	BHAGIRATHI (66/33/11kV) GRID SSTN	13-01-2015 00:40:42	13-01-2015 02:40:42
B13011500002	NEI13011500004	North East	BHAGIRATHI (66/33/11kV) GRID SSTN	13-01-2015 09:43:52	13-01-2015 09:43:52
B13011500003	NEI13011500003	North East	BHAGIRATHI (66/33/11kV) GRID SSTN	13-01-2015 09:49:41	13-01-2015 11:49:41
B13011500008	CE13011500002	Central	ANAND PARBAT 33/11kV GRID S/STN	13-01-2015 10:32:20	13-01-2015 11:32:20

STATUS

Figure 1.30 Breakdown ID listed in the status

- The user can select the breakdown ID from the status by clicking on the Breakdown ID in case of **the Update and Reject** the breakdown information.
- Select the checkboxes for the feeder selections along with the affected elements and the reason for the faults.
- Fill in all the information viz. Expected Duration, Load Affected, and Remarks.
- Fill all the details in the Requested By section.
- All the fields which are mandatory and needs to be filled are marked by the ***** sign.

Breakdown Id :	B13011500008	Sap Notification No:	test
Breakdown Type :*	BREAKDOWN	Circle:*	CENTRAL
Grid:*	ANAND PARBAT 33/11KV GRID S/STN	Feeder Voltage:*	66KV
<input checked="" type="checkbox"/> FEEDER ID..> <input type="checkbox"/> FDR@008222 ,FEEDER Name..> (008222)-> ANAND PARBAT GRID_33KV_CB_20 MVA PR TR_1 (SIEMENS, VCB) <input type="checkbox"/> [AFFECTED ELEMENT..> BUS BAR] <input type="checkbox"/> [REASON..> EHV OUTAGE]			
Feeder: *			
Breakdown Date & Time:*		13-01-2015 10:32:20	
Expected Duration:*		1	Hrs. 0 Min. 13-01-2015 11:32:20
Load: (MW):*		100	
PTW No:		12/22 13-01-2015 10:32:20	
Remarks			

Figure 1.31 Update Information for the Registered Breakdown.

REQUESTED BY

Name: * Test

Designation:

Employee No:

Contact No:

Backfeed Close

Reject Update Clear

Figure 1.32 Update the Requested by Information.

- The user can tick on backfeed option at the time of the update the breakdown. The Backfeed window would popup and user can enter the Backfeed details for single or multiple feeders in the breakdown situation. After filling in all the backfeed information, the user needs to save the information.

FEEDER ID: FEEDER FDR@008222 FEEDER Name: (008222)->ANAND PARBAT GRID_33KV_CB_20 MVA PR TR_1

BACKFEED INFORMATION

Breakdown Id : B13011500008 BackFeed Time : 13-01-2015 10:42:03

Feeder: Circle: CENTRAL Grid: ANAND PARBAT 33/11KV GRID S/STN

Feeder Voltage: 66KV Backfeed load:

BackFeed Type: SELECT BACKFEED SOURCE Backfeed Remarks:

FEEDER ID: (008222)->ANAND PARBAT GRID_33KV_CB_20 MVA PR TR_1 (SIEMENS, VCB) (008222)->ANAND PARBAT C

Save Cancel

Reject Update Clear

Figure 1.33 Backfeed Information Window

- User can close the breakdown by ticking on the Close checkbox option.
- Fill in all the details of the breakdown and select the affected element which resulted in the breakdown

Grid: ANAND PARBAT 33/11KV GRID S/STN Feeder Voltage: 66KV

FEEDER ID: FEEDER FDR@008222 FEEDER Name: (008222)->ANAND PARBAT GRID_33KV_CB_20 MVA PR TR_1

BREAKDOWN CLOSE

Breakdown Id : B13011500008 Closing Status: SELECT CLOSING STAT

Feeder: Restored Load(KW): 0 Closing Date & Time: 13-01-2015 10:42:03

Remarks: Affected Element: SELECT AFFECTED ELEMENT

Affected Element: BATTERY BANK, BATTERY CHARGER, BREAKER, BUS BAR, BUS COUPLER, BUS SECTION, CABLE, CONDUCTOR, CONTROL CABLE, CT, FEEDER, GRID, INCOMER, INSULATOR, ISOLATOR, JUMPER, LOCAL T/F, NCT, O/H FDR

Breakdown Date & Time: 13-01-2015 10:32:20

Load: (MW): 100

Remarks: remarks..

Name: * Test

Designation:

Contact No:

Figure 1.34 Breakdown Close Window

- The closing status can be fully or partial according to the existing condition of the breakdown.

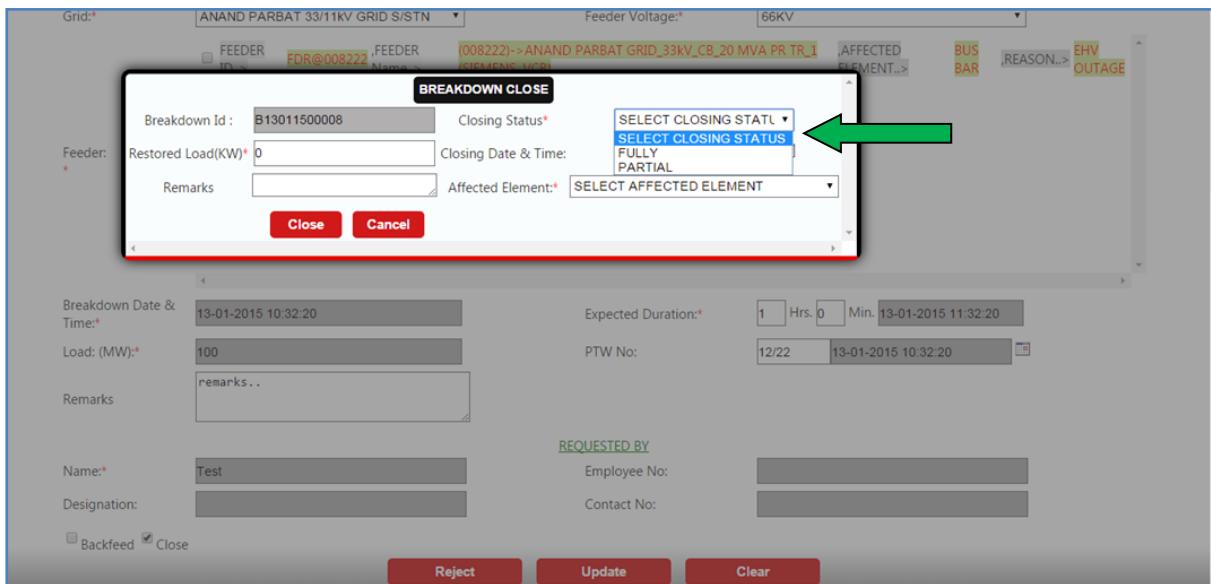


Figure 1.35 Breakdown Close Window

- In the Special Case** when the affected element is CABLE, then the breakdown would not close but the breakdown would be converted and listed in **FAULTY CABLE** section

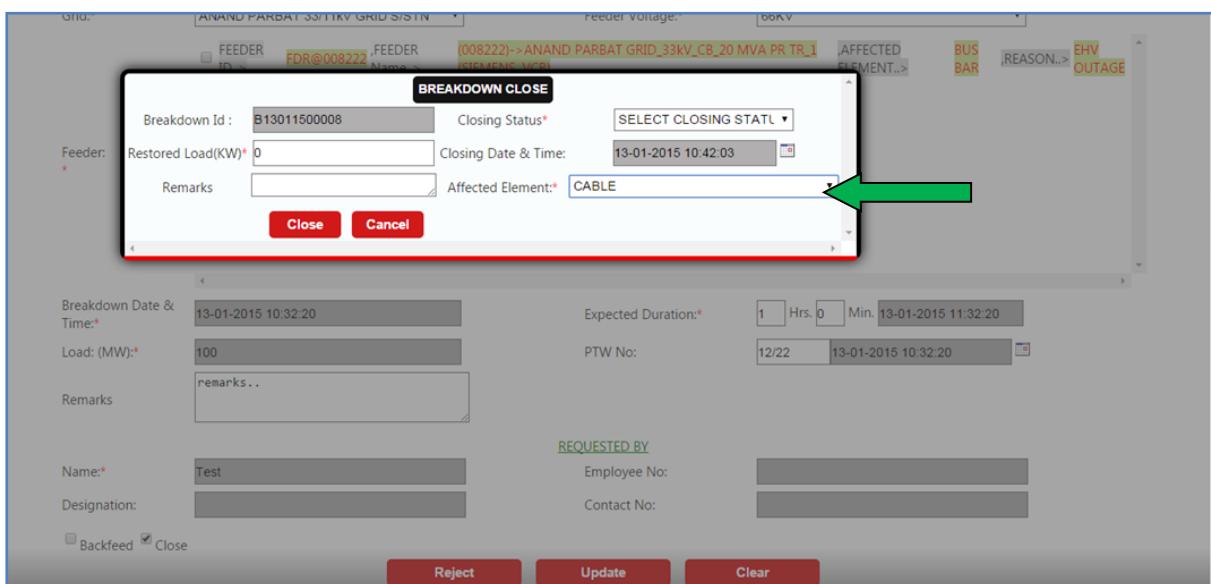


Figure 1.36 Breakdown Close window: Special case of Cable Breakdown.

- After breakdown close, the breakdown ID would not be listed and displayed in the status window.

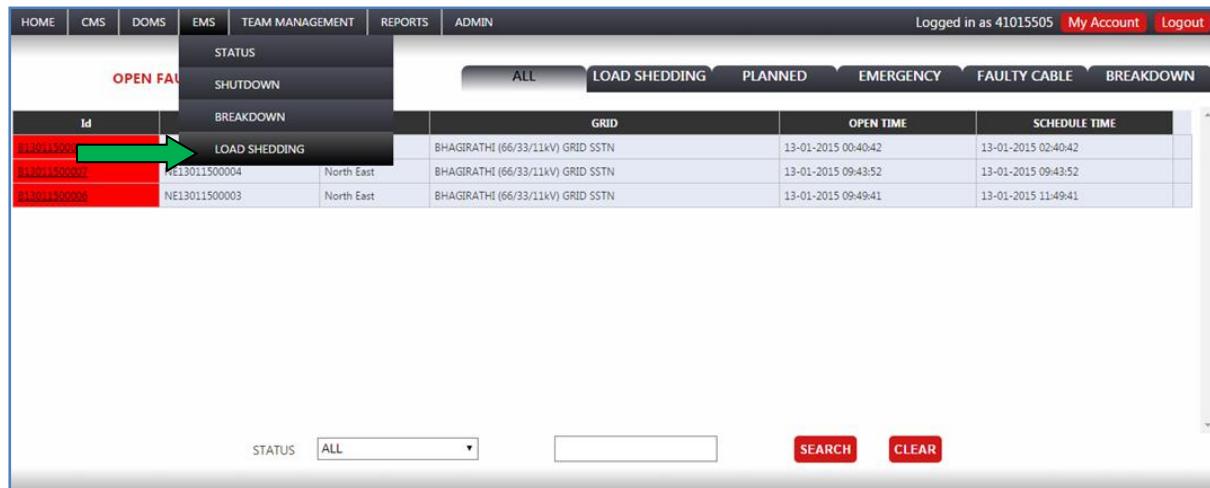
The screenshot shows a user interface for managing open faults. At the top, there is a navigation bar with links: HOME, CMS, DOMS, EMS, TEAM MANAGEMENT, REPORTS, and ADMIN. To the right of the navigation bar, it says "Logged in as 41015505" followed by "My Account" and "Logout". Below the navigation bar is a table titled "OPEN FAULTS". The table has columns: Id, FAULT ID, CIRCLE, GRID, OPEN TIME, and SCHEDULE TIME. There are three rows of data in the table. At the top of the table, there are tabs: ALL (which is selected), LOAD SHEDDING, PLANNED, EMERGENCY, FAULTY CABLE, and BREAKDOWN. At the bottom of the table, there is a "STATUS" dropdown set to "ALL", a search input field, a "SEARCH" button, and a "CLEAR" button.

OPEN FAULTS					
Id	FAULT ID	CIRCLE	GRID	OPEN TIME	SCHEDULE TIME
B1301150001	NE1301150001	North East	BHAGIRATHI (66/33/11kV) GRID SSTN	13-01-2015 00:40:42	13-01-2015 02:40:42
B1301150002	NE1301150004	North East	BHAGIRATHI (66/33/11kV) GRID SSTN	13-01-2015 09:43:52	13-01-2015 09:43:52
B1301150005	NE1301150003	North East	BHAGIRATHI (66/33/11kV) GRID SSTN	13-01-2015 09:49:41	13-01-2015 11:49:41

Figure 1.37 Breakdown ID not listed and displayed in the status window.

1.5 For Load shedding

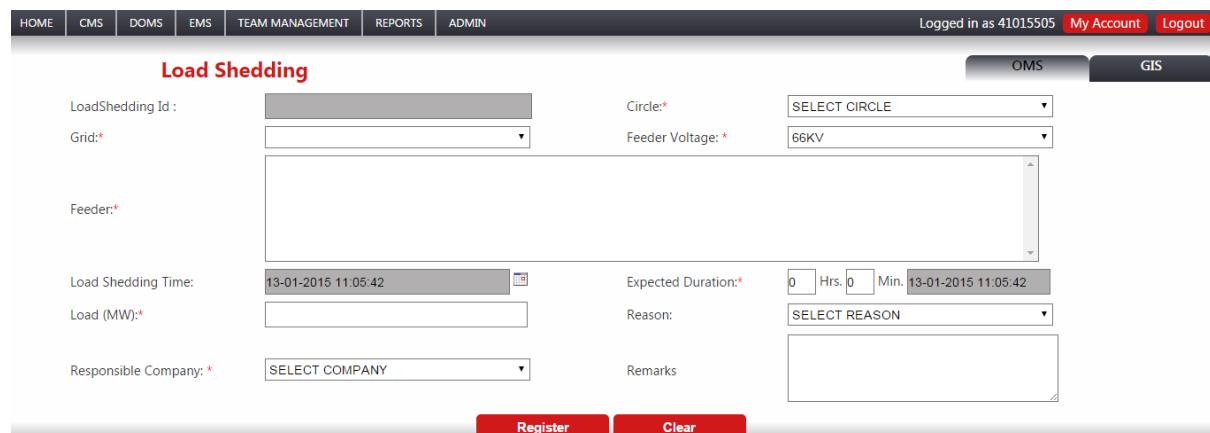
- Select the Load shedding option from the EMS dropdown options for registering the load shedding information.



HOME		CMS	DOMS	EMS	TEAM MANAGEMENT	REPORTS	ADMIN	Logged in as 41015505	My Account	Logout
		STATUS								
OPEN FAI		SHUTDOWN		BREAKDOWN						
Id		LOAD SHEDDING		GRID		OPEN TIME		SCHEDULE TIME		
NE13011500001		NE13011500004		BHAGIRATHI (66/33/11kV) GRID SSTN		13-01-2015 00:40:42		13-01-2015 02:40:42		
NE13011500002		NE13011500004	North East	BHAGIRATHI (66/33/11kV) GRID SSTN		13-01-2015 09:43:52		13-01-2015 09:43:52		
NE13011500003		NE13011500003	North East	BHAGIRATHI (66/33/11kV) GRID SSTN		13-01-2015 09:49:41		13-01-2015 11:49:41		

STATUS

Figure1. 38 Select the Load shedding Option.



HOME		CMS	DOMS	EMS	TEAM MANAGEMENT	REPORTS	ADMIN	Logged in as 41015505	My Account	Logout
Load Shedding										
LoadShedding Id :	<input type="text"/>			Circle:*	<input type="button" value="SELECT CIRCLE"/>					
Grid:*	<input type="button" value=""/>			Feeder Voltage:*	<input type="button" value="66KV"/>					
Feeder:*	<input type="text"/>									
Load Shedding Time:	<input type="text" value="13-01-2015 11:05:42"/>			Expected Duration:*	<input type="text" value="0"/> Hrs. <input type="text" value="0"/> Min.	<input type="text" value="13-01-2015 11:05:42"/>				
Load (MW):*	<input type="text"/>			Reason:	<input type="button" value="SELECT REASON"/>					
Responsible Company:*	<input type="button" value="SELECT COMPANY"/>			Remarks	<input type="text"/>					
<input type="button" value="Register"/> <input type="button" value="Clear"/>										

- The load shedding page would be opened after selecting the option.
- Select the BYPL Circle, Grids of that Circle and then Feeder Voltage
- All the feeders of the selected Grids and Feeder voltage would be displayed.
- Select the Feeders which for the load shedding process, the user can select the multiple feeders by pressing the shift button on the keyboard and using the mouse for the selection of the feeders.
- Fill in all the information viz. Expected Duration, Load Affected, and Remarks.
- Select the responsible company from the dropdown list.
- All the fields which are mandatory and needs to be filled are marked by the * sign.

Load Shedding

LoadShedding Id :

Grid:

Feeder:

Load Shedding Time:

Load (MW):

Circle:

Feeder Voltage:

Expected Duration:

Reason:

Remarks:

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Register **Clear**

Figure 1.39 Load Shedding Registration Window

- Click the Register Button after filing in all the information.
- The Load shedding ID and Fault ID would be generated and displayed as the popup window after the user click on the register button.

Load Shedding

Your LoadShedding Id=L13011500002 & FAULT ID =CE13011500003 !

LoadShedding Id :

Grid:

Feeder:

Load Shedding Time:

Load (MW):

Circle:

Feeder Voltage:

Expected Duration:

Reason:

Remarks:

Clear

Figure 1.40 The Pop Window Displaying the Load Shedding ID and Fault ID.

- The registered Load shedding ID and Fault ID can be checked in the Status of the breakdown.

OPEN FAULTS						
	ALL	LOAD SHEDDING	PLANNED	EMERGENCY	FAULTY CABLE	BREAKDOWN
ID	FAULT ID	CIRCLE	GRID	OPEN TIME	SCHEDULE TIME	
B13011500001	NEI13011500001	North East	BHAGIRATHI (66/33/11kV) GRID SSTN	13-01-2015 00:40:42	13-01-2015 02:40:42	
B13011500002	NEI1301150004	North East	BHAGIRATHI (66/33/11kV) GRID SSTN	13-01-2015 09:43:52	13-01-2015 09:43:52	
B13011500005	NEI1301150003	North East	BHAGIRATHI (66/33/11kV) GRID SSTN	13-01-2015 09:49:41	13-01-2015 11:49:41	
L13011500002	CE1301150003	Central	ANAND PARBAT 33/11kV GRID S/STN	13-01-2015 11:05:42	13-01-2015 11:05:42	

STATUS ALL

Figure 1.41 Load shedding ID and Fault ID listed in the status

- The user can select the Load Shedding ID from the status by clicking on the Load Shedding ID in case of the **Update** of the Load Shedding information.
- Fill in all the information viz. Expected Duration, Load, Responsible Company and Remarks.
- All the fields which are mandatory and needs to be filled are marked by the * sign.
- After the updates have been made. The user can also close the Load shedding from the same page by checking on the close button.

Loadshedding						
LoadShedding Id :	L13011500002	Circle:	CENTRAL	OMS	GIS	
Grid:*	ANAND PARBAT 33/11KV GRID S/STN	Feeder Voltage:*	66KV			
Feeder:*	(008222)->ANAND PARBAT GRID_33KV_CB_20 MVA PR TR_1 (SIEMENS, VCB) (008198)->ROHTAK ROAD 33KV I/C_CB_ANAND PARBAT GRID (SIEMENS, VCB) (008223)->ANAND PARBAT GRID_33KV_CB_NO.3 (PR TR) (SIEMENS, VCB) (008213)->C 33KV SHASTRI PARK GRID_CB_ANAND PARBAT GRID (SIEMENS, VCB) (008210)->ANAND PARBAT GRID_33KV_CB_FAIZ ROAD GRID OIG (SIEMENS, VCB) (008221)->ANAND PARBAT GRID_33KV_CB_CKT-ISHASTRI PARK 33KV I/C (SIEMENS, VCB) (008211)->ANAND PARBAT GRID_33KV_CB_BUS COUPLED (SIEMENS, VCB)					
Load Shedding Time:	13-01-2015 11:05:42	Expected Duration:*	0 Hrs. 0 Min. 13-01-2015 11:05:42			
Load (MW):*	100	Reason:	BREAKDOWN			
Responsible Company:*	BYPL	Remarks	Your Remarks... <input type="text"/>			
<input type="checkbox"/> Close <input type="button" value="Update"/> <input type="button" value="Clear"/>						

Figure 1.42 Update and Close the Load Shedding

- The closing status can be fully or partial according to the existing condition of the Load Shedding Process.
- User needs to fill in the all the details to close the load shedding.

The screenshot shows the 'LOADSHEDDING CLOSE' window. At the top, there are fields for 'LoadShedding Id' (L13011500002), 'Closing Time' (13-01-2015 11:10:05), 'Restored Load(KW)' (0), and 'CLOSING TYPE' (a dropdown menu with 'SELECT CLOSING TYPE' at the top, 'FULLY' highlighted in blue, and 'PARTIAL' below it). A green arrow points to the 'SELECT CLOSING TYPE' dropdown. Other fields include 'Remarks' (empty), 'Grid' (ANAND PARBAT 33/11KV GRID SSTN), 'Feeder Voltage' (66KV), 'Feeder' (list of options like '008222->ANAND PARBAT GRID_33KV_CB_20 MVA PR TR_1 (SIEMENS, VCB)'), 'Load Shedding Time' (13-01-2015 11:05:42), 'Expected Duration' (0 Hrs, 0 Min, 13-01-2015 11:05:42), 'Load (MW)' (100), 'Reason' (BREAKDOWN), 'Responsible Company' (BYPL), and 'Remarks' (empty). At the bottom are 'Update' and 'Clear' buttons.

Figure 1.43 Load Shedding Close Window

- After Load Shedding close, the Load Shedding ID would not be listed and displayed in the status window.

The screenshot shows the 'LOAD SHEDDING' status window. At the top, there are tabs for 'STATUS', 'SHUTDOWN', 'BREAKDOWN', and a dropdown for 'LOAD SHEDDING'. Below is a table with the following data:

Id	Region	Status	Grid	OPEN TIME	SCHEDULE TIME
L13011500002	NEI	LOAD SHEDDING	BHAGIRATHI (66/33/11kV) GRID SSTN	13-01-2015 00:40:42	13-01-2015 02:40:42
L13011500007	NEI13011500004	North East	BHAGIRATHI (66/33/11kV) GRID SSTN	13-01-2015 09:43:52	13-01-2015 09:43:52
P13011500006	NEI13011500003	North East	BHAGIRATHI (66/33/11kV) GRID SSTN	13-01-2015 09:49:41	13-01-2015 11:49:41
P13011500004	NEI13011500005	North East	GHONDA (66/33/11kV) GRID SSTN	13-01-2015 10:55:14	13-01-2015 10:55:14
P13011500003	SEI13011500002	South East	KONDLI GHARAUJI (66/11kV) GRID SSTN	13-01-2015 10:55:19	13-01-2015 10:55:19
P13011500008	NEI13011500006	North East	SEELAMPUR (33/11kV) GRID SSTN	13-01-2015 11:00:31	13-01-2015 11:00:31
P13011500005	SEI13011500003	South East	PREET VIHAR (33/11kV) GRID SSTN	13-01-2015 11:00:41	13-01-2015 11:00:41
P13011500006	SEI13011500004	South East	PREET VIHAR (33/11kV) GRID SSTN	13-01-2015 11:00:52	13-01-2015 11:00:52
P13011500009	NEI13011500007	North East	DILSHAD GARDEN (66/11kV) GRID SSTN	13-01-2015 11:15:25	13-01-2015 11:15:25
P13011500010	CE13011500004	Central	I.G. STADIUM 33/11kV GRID S/STN	13-01-2015 11:26:56	13-01-2015 11:26:56

At the bottom, there are buttons for 'STATUS' (set to 'ALL'), 'SEARCH', and 'CLEAR'.

Figure 1.44 Load Shedding ID not listed and displayed in the Status window

2. DOMS: Distribution & Operation Management System

2.1 To Access DOMS Module

To Access the **DOMS Module** **LOG IN** into Intelligent Outage Management System. The DOMS dashboard comprises of four processes listed as the submenus:

- e. Status: **Status page** displays the current status of all open shutdowns, breakdowns, faulty cables, breakdown maintenance and load shedding.
- f. Shutdown: To **perform and register the Shutdown** activity, there are two types of shutdown activities viz. **Planned or Emergency Shutdown** therefore, a user can register one of the two based on the usage.
- g. Breakdown: To **perform and register the Breakdown** activity.
- h. Load shedding: To **perform and register the load shedding** information.

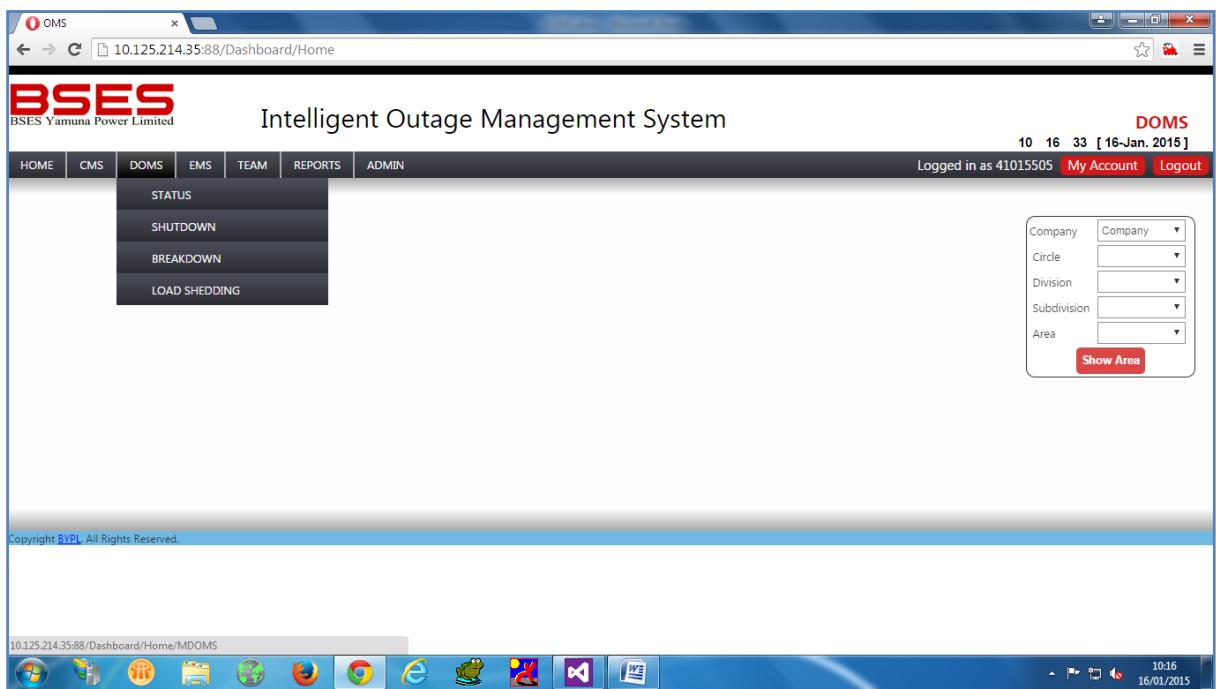


Figure 2.45 DOMS Dashboard

2.2 Review the DOMS Status

- Select the Status option from the DOMS dropdown list, to review the status of all the current open, pending and confirmed shutdowns, breakdowns, breakdown maintenance, load shedding and details of the faulty cables. User can also assign or divert vehicles from here.

BSES Yamuna Power Limited

Intelligent Outage Management System

DOMS
15 : 08 : 59 [16-Jan. 2015]

Logged in as 41015505 [My Account](#) [Logout](#)

OPEN FAULTS			ALL	BD	FLC	BD MAINT	LSHED	PS	ES
ID	DIVISION	GRID/SUBSTATION	FEEDER/DT	VOLTAGE	OPEN TIME	DURATION	RESOURCE		
B16011500024	LNR	PREET VIHAR (33/11kV) GRID S/STN	(013412)->PREET VIHAR GRID_11KV_CB_F-BLOCK PREET VIHAR (SCHNEIDER, BOB)	HT	16/01/2015 15:05:42				
B16011500024	CCK	220kV ISBT KASHMERE GATE GRID S/STN (220/33/11kV, TRANSCO)	(012109)->220 KV GRID KASHMERIC GATE_11KV_CB_HAMILTON ROAD	HT	16/01/2015 14:55:26				

COLOR BAND
BD-HT BD-LT

ALL STATUS SEARCH CLEAR

Figure 2.46 the DOMS Status Window

- To assign the vehicle drag and drop the type of vehicle you want to assign to the resource column and after dropping the vehicle a popup box appears.

Fault Details

Breakdown Id	B16011500028	Fault Id	DRG16011500029	Open Time	16-01-2015 15:36:27
Grid/Substation	G.B. PANT 33/11KV GRID S/STN			Expected Time	16-01-2015 15:36:27
Feeder/DT	(008629)->G.B.PANT_11KV_CB_FIROZ SHAH KOTLA DDCA (ABB, VCB)			Voltage	HT

Vehicle Details

Vehicle No*	Select Vehicle	Supervisor*	Select User	Design
Contact*		Allocation Time*	16-1-2015 15:38:33	Assigned By*: 41015505
Remarks	<input type="button" value="Assign"/> <input type="button" value="Cancel"/>			

Figure 2.47 Vehicle Assign Window

- After filling details assign vehicle and a confirmation box would appear.

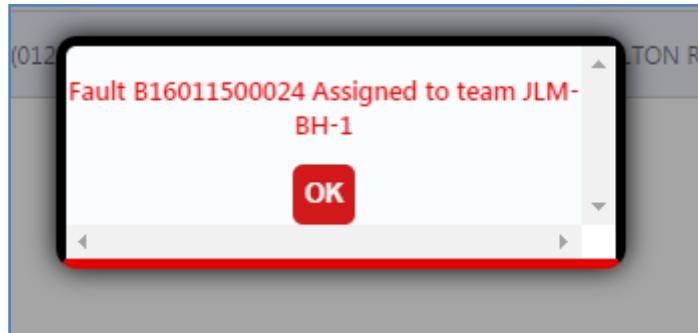


Figure 2.48 Pop up Displaying Assignment Confirmation

- The user can edit or divert vehicle by clicking on vehicle id appeared in resource column:

LSHED	PS	ES
PEN TIME	DURATION	RESOURCE
-2015 27	16-01-2015 15:36:27	
-2015 26	16-01-2015 14:55:26	JLM-BH-1

Divert Edit

Figure 2.49 Vehicle Permission Divert or Edit Options

- You can also view the DOMS Status on **GIS MAP** by selecting the **GIS Status** tab from status.

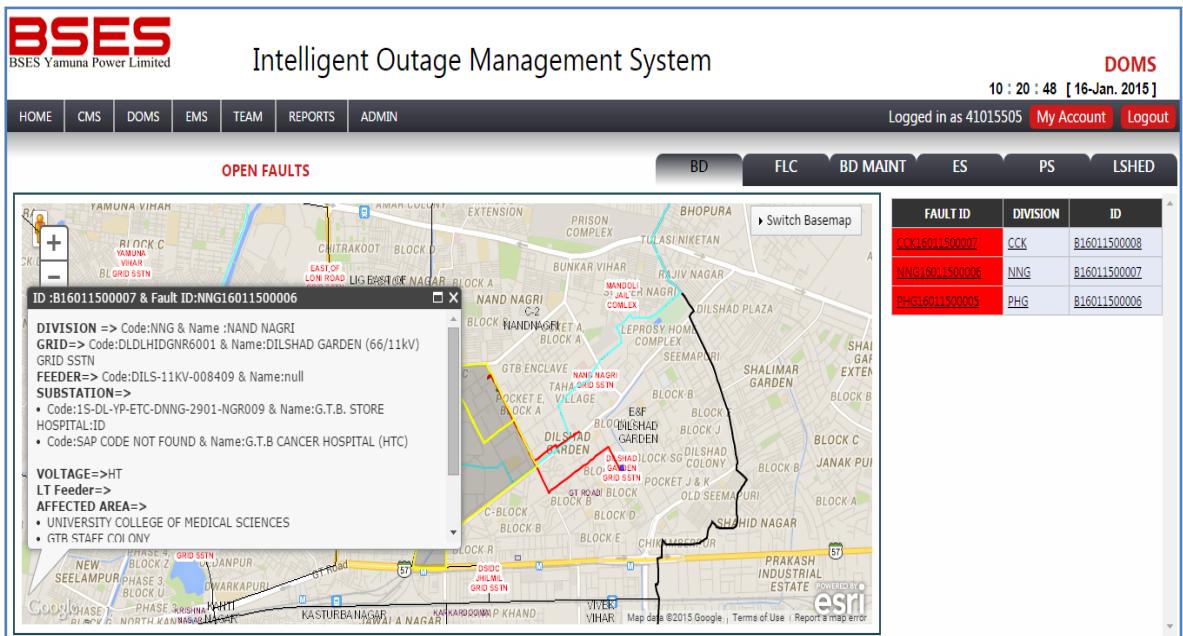


Figure 2.50 DOMS Status view on GIS Maps

2.3 DOMS Shutdown Process

- Select the Shutdown process from the DOMS dropdown list to register the Shutdown activity.

Intelligent Outage Management System

DOMS
10 22 57 [16-Jan-2015]

Logged in as 41015505 [My Account](#) [Logout](#)

SHUTDOWN

Shutdown Type:*****

Grid:*****

Substation:

Load(Amp):*****

Voltage:*****

Open Time:

Affected Element:*****

Reason:*****

Name:*****

Designation:

Division:*****

Feeder:*****

DT:

LT feeder:

Expected Duration:***** Hrs. Mis.

Work to be carried out:*****

Remarks:

INFORMED BY

Employee No:

Contact No:

OMS **GIS**

Register **Clear**

Figure 2.51 DOMS Shutdown Registration Window

- Select the type of shutdown from shutdown type from the dropdown.
- Select the Division, Grid, Feeder, Substation, DT, Voltage and LT Feeder for the planned shutdown

SHUTDOWN

Shutdown Type:*****

Grid:*****

Substation:

Load(Amp):*****

Voltage:*****

Open Time:

Affected Element:*****

Division:*****

Feeder:*****

DT:

LT feeder:

Expected Duration:***** Hrs. Mis.

Work to be carried out:*****

OMS **GIS**

Figure 2.52 Select the Division

SHUTDOWN

Shutdown Type:*****

Grid:*****

Substation:

Load(Amp):*****

Division:*****

Feeder:*****

DT:

LT feeder:

OMS

Figure 2.53 Select GRID

SHUTDOWN

Shutdown Type:***** PLANNED

Grid:***** SHANKAR ROAD 33/11KV GRID S/STN

Substation:

Load(Amp):***** 0

Voltage:***** HT

Open Time: 16-01-2015 10:22:35

Affected Element:***** SELECT ELEMENT

Division:***** SHANKAR ROAD

Feeder:***** SELECT FEEDER

SELECT FEEDER

(009473)->SHANKAR ROAD GRID_11KV_CB_750KVA STATION TRANSFORMER NO.-2 (F16) (CG, VCB)
(009484)->SHANKAR ROAD GRID_11KV_CB_1000 KVA LOCAL TRF-1 (F1) (BHEL, VCB)
(009464)->SHANKAR ROAD GRID_11KV_CB_BAZAR MARG (F15) (CGL, VCB)
(009476)->SHANKAR ROAD GRID_11KV_CB_DDA COMPLEX + NEW TEIPHONE EXC (F3) (BHEL, VCB)
(009478)->SHANKAR ROAD GRID_11KV_CB_RIDGE ROAD (F2) BHEL, VCB
(009470)->SHANKAR ROAD GRID_11KV_CB_COMMUNITY CENTRE(F4) (BHEL, VCB)
(009491)->SHANKAR ROAD GRID_11KV_CB_RAJENDRA PARK (F12) (BHEL, VCB)
(009481)->SHANKAR ROAD GRID_11KV_CB_EAST PATEL NAGAR (F14) (CG, VCB)
(009489)->SHANKAR ROAD GRID_11KV_CB_GANGA RAM HOSPITAL (F5) (BHEL, VCB)
(009485)->SHANKAR ROAD GRID_11KV_CB_POOJA PARK (F9) (BHEL, VCB)
(009466)->SHANKAR ROAD GRID_11KV_CB_R-BLK RAJENDRA NGR (F8). (BHEL, VCB)
(009492)->SHANKAR ROAD GRID_11KV_CB_52-BLK RAJENDRA NAGAR (F13) (CG, VCB)
(009475)->SHANKAR ROAD GRID_11KV_CB_PUSA ROAD (F11) (BHEL, VCB)
(009467)->SHANKAR ROAD GRID_11KV_CB_SETH PETROL PUMP (F17) (CG, VCB)
(009463)->SHANKAR ROAD GRID_11KV_CB_21-BLOCK OLD RAJENDRA NAGAR(F7) (BHEL, VCB)

Figure 2.54 Select the 11KV Feeder

SHUTDOWN

Shutdown Type:***** PLANNED

Grid:***** SHANKAR ROAD 33/11KV GRID S/STN

Substation:
GANGA RAM HOSP ID
MILLENIUM HOSPITAL:HTC
JANKI DEVI S/STN:ID

Load(Amp):***** 0

Voltage:***** LT

Division:***** SHANKAR ROAD

Feeder:***** (009489)->SHANKAR ROAD GRID_11KV_

DT:
TRF-1:GANGA RAM HOSP (990 KVA)

LT feeder:
LT FEEDER 1 SRDH416
LT FEEDER 2 ganga ram hospital
LT FEEDER 3 SRDH405

Figure 2.55 Select Substation, DT, Voltage and LT Feeder as per requirement

- After Selecting enter load, open time, duration, affected element, work to be carried out, reason, Remarks, informed by details.
- After filling required fields in Shutdown, Click on Register Button and a popup with shutdown id and fault id will show that shutdown id and fault id can be used for future reference.

YOUR SHUTDOWN ID =P16011500001 & FAULT ID =SRD16011500008 !

Shutdown Id : P16011500001 Sap Notification No:

YOUR SHUTDOWN ID =P16011500001 & FAULT ID =SRD16011500008 !

OK

Substation:

Load(Amp):***** 0

Voltage:***** LT

LT feeder:
LT FEEDER 1 SRDH416
LT FEEDER 2 ganga ram hospital
LT FEEDER 3 SRDH405

Figure 2.56 Pop up Window displaying Shutdown ID & Fault ID

- Now again click on DOMS status tag, that shutdown id will be appear on status window.

OPEN FAULTS				ALL	BD	FLC	BD MAINT	LSED	PS	ES
ID	DIVISION	GRID/SUBSTATION	FEEDER/DT	VOLTAGE	OPEN TIME	DURATION	RESOURCE			
P16011500008	CCK	TOWN HALL 33/11KV GRID S/STN	(009582)->TOWN HALL_11KV_CB_NEW KRISHNA MARKET(F8) (ABB, VCB)	HT	16-01-2015 10:11:58	16-01-2015 10:11:58				
P16011500006	PHG	MOTIA KHAN 33/11KV GRID S/STN	(009255)->MOTIA KHAN GRID_11KV_CB_RAM NAGAR (ABB)	HT	16-01-2015 04:53:20	16-01-2015 06:53:20				
P16011500001	SRD	GANGA RAM HOSPID.	TRF-1:GANGA RAM HOSP,	LT	16-01-2015 10:22:35	16-01-2015 10:22:35				

Figure 2.57 Status Window displaying Registered Shutdown ID

- The user can check the status of faults by selecting various colour codes available as different colour band tabs on the status page.
- Click on that Shutdown id and it would redirect on the confirmation page for planned and updating page for emergency shutdown.

SHUTDOWN

Shutdown Id : P16011500001

Shutdown Type: PLANNED

Grid: SHANKAR ROAD 33/11KV GRID S/STN

Substation: GANAG RAM HOSP.ID
MILLENIUM HOSPITAL:HTC
JANKI DEVI S/STN:ID

Load(Amp):* 0

Voltage: LT

Open Time: 16-01-2015 10:22:35

Affected Element: 11KV FEEDER

Reason: IST SWITCHING STATION BYPASS

Sap Notification No:

Division:*

Feeder:*

DT:

LT feeder:

Expected Duration:*

Work to be carried out:*

Remarks:

INFORMED BY

Name: RAM

Designation:

Employee No:

Contact No:

Buttons: Confirm (highlighted with a green box), Reject

Figure 2.58 Shutdown Confirmation Window

- From here the user can confirm or reject the shutdown.
- Click on status option again to check the status of the created shutdown, the assigned id would be listed and displayed on the status window
- Click on the created Shutdown ID and it would redirect to the new page for confirmation, update information, for back feed and close options.

SHUTDOWN

Shutdown Id : P16011500001

Shutdown Type: PLANNED

Grid: SHANKAR ROAD 33/11KV GRID S/STN

Substation: JANKI DEVI S/STN:ID
BAL BHARTI SCHOOL:HTC
JANKIDEVI COLLAGE:HTC

Load(Amp):* 0

Voltage: LT

Open Time: 16-01-2015 10:22:35

Affected Element: 11KV FEEDER

Reason: IST SWITCHING STATION BYPASS

Sap Notification No:

Division:*

Feeder:*

DT:

LT feeder:

Expected Duration:*

Work to be carried out:*

Remarks:

INFORMED BY

Name: RAM

Employee No:

Backfeed Close

Buttons: Update (highlighted with a green box), Clear

Figure 2.59 Shutdown Information Update Window

- Update the certain fields here which are necessary for the shutdown activity.

- If the user wants to backfeed the shutdown then check backfeed checkbox and a popup box appears:

The screenshot shows a software interface titled "Backfeed Shutdown". At the top, there are fields for "Shutdown Id" (P1601150001), "Backfeed Time" (16-01-2015 12:01:33), "Backfeeded Load(Amp)" (0), and "BackFeed Source" (SELECT BACKFEED SOURCE). Below these is a "Remarks" text area. A green arrow points to the left edge of the window. The main part of the window is a table titled "Restored LT Feeder" with columns "Restored LT Feeder ID" and "Restored LT Feeder". The table contains five rows of data:

	Restored LT Feeder ID	Restored LT Feeder
<input type="checkbox"/>	006226-CB-1339798	LT FEEDER 1 SRDH416
<input type="checkbox"/>	006226-CB-1340116	LT FEEDER 2 ganga ram hospital
<input type="checkbox"/>	006226-CB-1349094	LT FEEDER 3 SRDH405
<input type="checkbox"/>	006226-CB-1349095	LT FEEDER 4 SRDH408
<input type="checkbox"/>	006226-CB-1349097	LT FEEDER 5 SRDH408

At the bottom are "Save" and "Cancel" buttons.

Figure 2.60 Shutdown Backfeed Window

- Fill in the backfeed time, backfeeded load and backfeed source.
- Check the checkbox to which you want to backfeed and save.
- For closing a Shutdown check close checkbox and a popup appears:

The screenshot shows a software interface titled "Close SHUTDOWN". At the top, there are fields for "Shutdown Id" (P1601150001), "Closing Time" (16-01-2015 12:01:32), "Restored Load(Amp)" (0), and "Work Carried Out" (SELECT WORK). Below these is a "Remarks" text area. A green arrow points to the "Closing Type" dropdown menu. The dropdown menu is open, showing options: "SELECT CLOSING TYPE", "SELECT CLOSING TYPE" (highlighted in blue), "FULLY CLOSE", and "PARTIALLY CLOSE". At the bottom right is a "Cancel" button.

Figure 2.61 Shutdown Closing Window

- Fill in the details like closing time, Restored load and work carried out etc.

- Select the closing type **Fully or Partial**. If the users selects the option for closing type **Fully** then shutdown is closed and if the users selects the option for closing type **Partial** then select the elements which are required for closing the shutdown close partially.

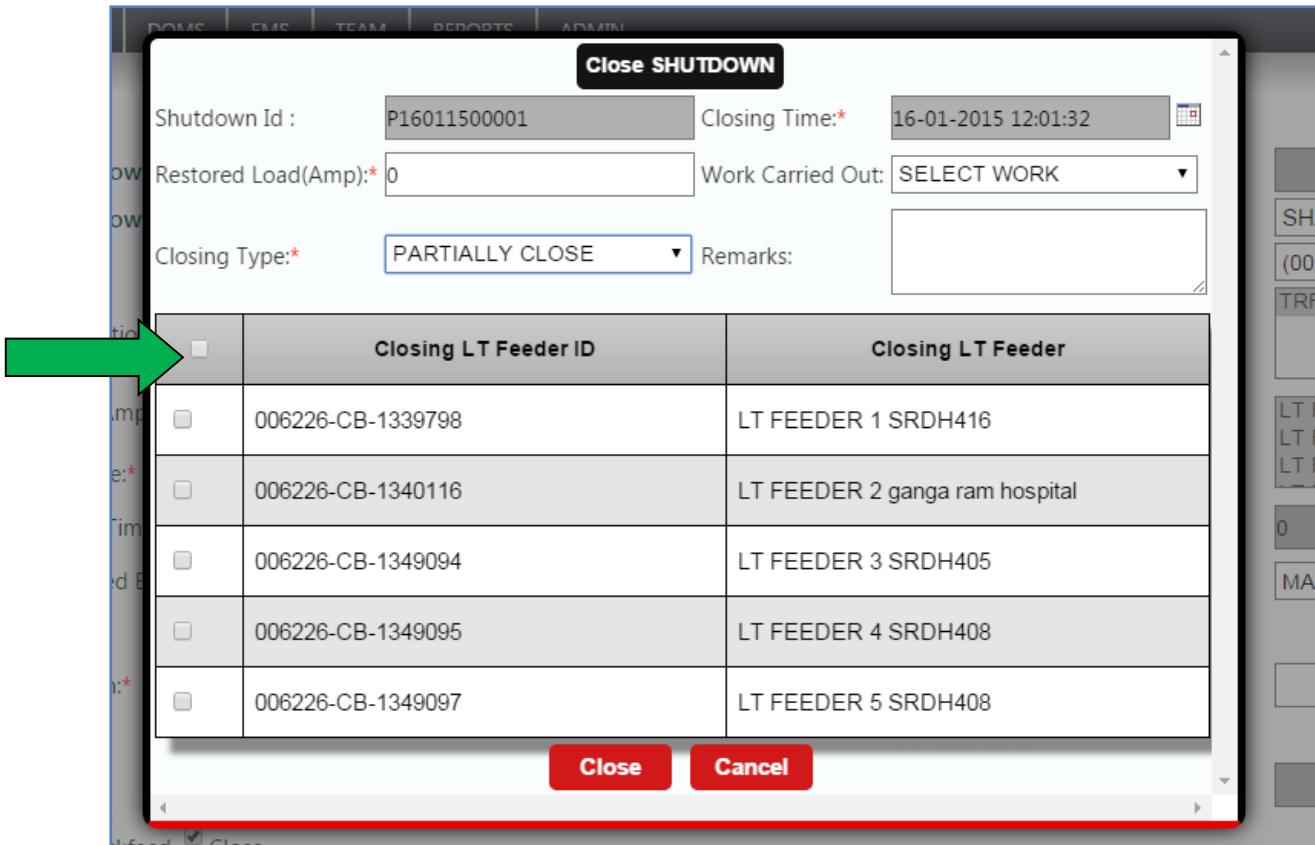


Figure 2.62 Shutdown Window in case of Partially Closed Situation.

- After the partial closing selected elements are closed and rest remains open.

2.4 DOMS Breakdown Process

- Select the Breakdown process from the DOMS dropdown list to register the Breakdown activity.

The screenshot shows the 'BREAKDOWN' section of the IOMS interface. It includes fields for Breakdown Type (set to 'BREAKDOWN'), Grid, Substation, Load(Amp), Voltage, Open Time (set to '16-01-2015 12:22:50'), Relay Tripped, and various selection dropdowns for Division, Feeder, DT, LT feeder, and Reason. Below these are sections for 'INFORMED BY' (Employee No and Contact No) and buttons for 'Register' and 'Clear'.

Figure 2.63 Breakdown Registration Window

- Select the Division, Grid, Feeder, Substation, DT, Voltage and LT Feeder for planned shutdown.
- Select the load, open time, duration, Relay Tripped, Reason and fill in the details in the **Informed By section**.
- After filling required field in Breakdown, Click on Register Button and a popup with breakdown id and fault id will show that breakdown id and fault id can be used for future reference.



Figure 2.64 Popup Window displaying Breakdown ID & Fault ID

- Click on DOMS status tag, that breakdown id would be displayed and listed in the status window.

The screenshot shows a table titled 'OPEN FAULTS' with columns: ID, DIVISION, GRID/SUBSTATION, FEEDER/DT, VOLTAGE, OPEN TIME, DURATION, and RESOURCE. The data rows are:

ID	DIVISION	GRID/SUBSTATION	FEEDER/DT	VOLTAGE	OPEN TIME	DURATION	RESOURCE
B16011500008	CCK	TOWN HALL 33/11KV GRID S/STN	(009582)->TOWN HALL_11KV_CB_NEW KRISHNA MARKET(F8) (ABB, VCB)	HT	16-01-2015 10:11:58	16-01-2015 10:11:58	
B16011500006	PHG	MOTIA KHAN 33/11KV GRID S/STN	(009255)->MOTIA KHAN GRID_11KV_CB_RAM NAGAR (ABB)	HT	16-01-2015 04:53:20	16-01-2015 06:53:20	
P16011500001	SRD	GANGA RAM HOSPID,	TRF-1:GANGA RAM HOSP,	LT	16-01-2015 10:22:35	16-01-2015 10:22:35	

Figure 2.65 Status Window displaying the Registered Breakdown.

- The user can check the status of faults by various colour codes available colour band tab on status page.
- Click on the generated breakdown ID and the new window for the information update of the registered Breakdown.

BREAKDOWN

Breakdown Id :	B16011500013	Sap Notification No:		
Breakdown Type:*	BREAKDOWN	Division:*	CHANDNI CHOWK	
Grid:*	KAMLA MARKET 33/11KV GRID S/STN	Feeder:*	(008964)->KAMLA MARKET_11KV_CB_O	
Substation:	OLD HAUZ QUAZI:ID P.S HAUZ QUAZI:PL	DT:		
Load(Amp):*	81	LT feeder:		
Voltage:*	HT	Expected Duration:*	0 Hrs. 0	Mis. 16-01-2015 12:01:59
Open Time:	16-01-2015 12:01:59	Reason:	TRIPPING	
Relay Tripped:	E/F	Remarks:		
Entry Mode:	MANUAL	Assigned To:		
Assigned By:		Employee No:		
Name:	SO	<u>INFORMED BY</u>		
<input type="checkbox"/> Backfeed <input type="checkbox"/> Close				
<input type="button" value="Reject"/> <input type="button" value="Update"/> <input type="button" value="Clear"/>				

Figure 2.66 Breakdown Information Update Window

- Update the field's viz. Relay tripped, reason, remarks in this window.
- If the user wants to backfeed breakdown then check backfeed checkbox and a popup box would open.

Backfeed Shutdown

Breakdown Id :	B16011500013	Backfeed D/T:	16-01-2015 12:27:00												
Restored Load:(KW)	0	BackFeed Source:	SELECT BACKFEED SOURCE												
Remarks:															
<table border="1"> <thead> <tr> <th></th> <th>Restored Substation</th> <th>Restored Substation Name</th> <th>Backfeeding Feeder</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>DLDLHICCKF101F</td> <td>OLD HAUZ QUAZI:ID</td> <td>Please Select Feeder</td> </tr> <tr> <td><input type="checkbox"/></td> <td>DLDLHICCKS104J</td> <td>P.S HAUZ QUAZI:PL</td> <td>Please Select Feeder</td> </tr> </tbody> </table>					Restored Substation	Restored Substation Name	Backfeeding Feeder	<input type="checkbox"/>	DLDLHICCKF101F	OLD HAUZ QUAZI:ID	Please Select Feeder	<input type="checkbox"/>	DLDLHICCKS104J	P.S HAUZ QUAZI:PL	Please Select Feeder
	Restored Substation	Restored Substation Name	Backfeeding Feeder												
<input type="checkbox"/>	DLDLHICCKF101F	OLD HAUZ QUAZI:ID	Please Select Feeder												
<input type="checkbox"/>	DLDLHICCKS104J	P.S HAUZ QUAZI:PL	Please Select Feeder												
<input type="button" value="Save"/> <input type="button" value="Cancel"/>															

Figure 2.67 Breakdown Backfeed Window

- Fill in the backfeed time, backfeed load and backfeed source.
- Check the checkbox to which you want to backfeed and save.

- For closing a breakdown , check close checkbox and a popup appears

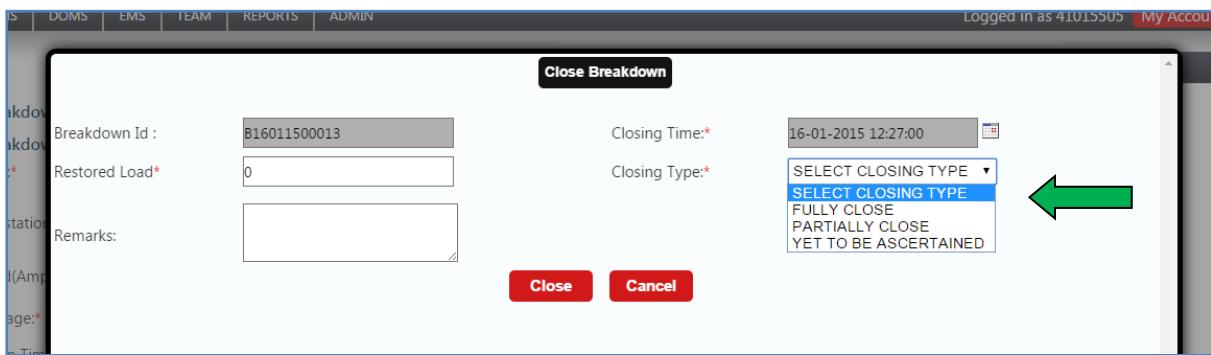


Figure 2.68 Breakdown Closing Window

- Fill in the closing time, Restored load for closing the Breakdown.
- Select the closing type **Fully, Partial or Yet to Be Ascertained**.
- If the user selects s the option of yet to be ascertained then breakdown is closed.
- If the user selects the option for closing type **Partial** then select the elements which are required for closing the shutdown close partially.

The screenshot shows a 'Close Breakdown' dialog box for partial closing. It includes fields for 'Breakdown Id' (B16011500013), 'Restored Load*' (0), 'Closing Time*' (16-01-2015 12:27:00), and 'Closing Type*' (PARTIALLY CLOSE). Below these are two rows of data in a table:

	Closing Substation	Closing Substation Name
<input checked="" type="checkbox"/>	DLDLHICCKF101F	OLD HAUZ QUAZI:ID
<input type="checkbox"/>	DLDLHICCKS104J	P.S HAUZ QUAZI:PL

A green arrow points to the first row of the table.

Figure 2.69 Partial Breakdown Closing Window

- After partial closing selected elements are closed and rest remains open and forwarded into breakdown maintenance.

- If the user selects the option for closing type **Fully** then the shutdown is closed. Select the affected element and problem and responsible element and then close the breakdown.

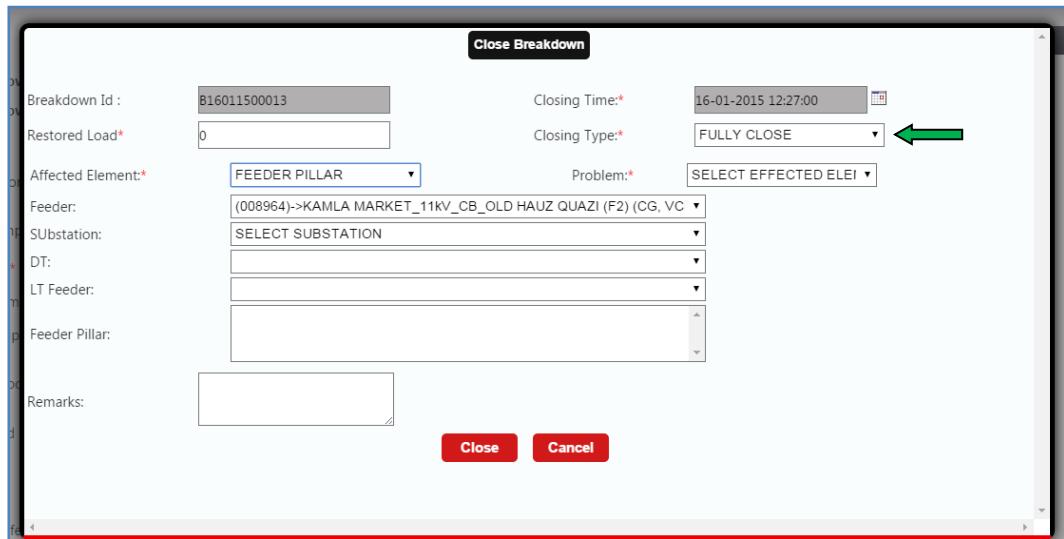


Figure 2.70 Breakdown Fully Closing Window

- Breakdown is closed and it would ask the user to select another element in case of multiple elements affected.

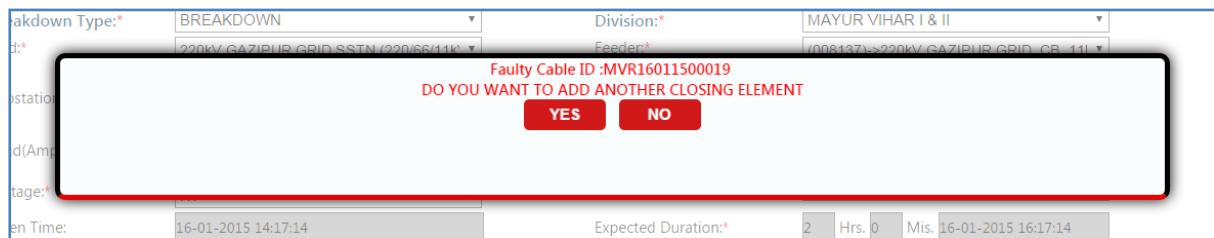


Figure 2.71 To Add & Select another affected element for the Breakdown.

- Select the option from **Yes or No** as shown in figure 27. Select **Yes** if there's another affected element which needs to be added for the registered breakdown. Otherwise select no to close the breakdown.
- The **Closing Faulty Cable and Breakdown Maintenance** is generated according to closing element and problem.

2.5 DOMS Faulty Cable Process

- Faulty cables are generated after breakdown close according to affected element and problem and displayed in status page.

OPEN FAULTS								ALL	BD	FLC	BD MAINT	LSHED	PS	ES
ID	DIVISION	GRID/SUBSTATION	FEEDER/DT	VOLTAGE	OPEN TIME	DURATION	RESOURCE							
B16011500018	MVR	220kV GAZIPUR GRID SSTN (220/66/11kV, TRANSCO)	(008137)->220kV GAZIPUR GRID_CB_11kV_KHICHRIPUR S/STN-3	HT	16/01/2015 14:31:41	17/01/2015 14:31:41								
P16011500013	DRG	I.G. STADIUM 33/11kV GRID S/STN	(008843)->I.G.STADIUM GRID_11kV_CB_PLAYERS BLDG-1 (ABB, SF6)	HT	16/01/2015 13:35:12	16/01/2015 13:35:12								

Figure 2.72 Status Window Displaying Faulty Cable

- Click on that Faulty Cable id and the information update page for Faulty cable would open.

FAULTY CABLE

Breakdown Id : <input type="text" value="B16011500018"/>	Sap Notification No: <input type="text"/>
Breakdown Type*: <input type="text" value="FAULTY CABLE"/>	Division: <input type="text" value="MAYUR VIHAR I & II"/>
Grid*: <input type="text" value="220kV GAZIPUR GRID SSTN (220/66/11kV)"/>	Feeder: <input type="text" value="(008137)->220kV GAZIPUR GRID_CB_11kV"/>
Substation: <input type="text" value="S/S-3 (DSIDC WORK CENTER) K.PUR:ID"/>	DT: <input type="text"/>
Load(Amp)*: <input type="text" value="110"/>	LT feeder: <input type="text"/>
Voltage*: <input type="text" value="HT"/>	Expected Duration*: <input type="text" value="24 Hrs. 0 Min. 17-01-2015 14:31:41"/>
Open Time: <input type="text" value="16-01-2015 14:31:41"/>	Element & Problem*: <input type="text" value="SELECT EFFECTED ELEMENT & PROBL"/>
Effected Equipment*: <input type="text" value="11KV CABLE"/>	
Cables*: <input type="text" value="S/S-3 (DSIDC WORKS CENTRE) KHICHRIPUR TO SEWAGE PUMPING"/>	
Assigned By: <input type="text"/>	Assigned To: <input type="text"/>
Name: <input type="text" value="SO"/>	Employee No: <input type="text"/>
<input type="checkbox"/> Close <input type="button" value="Update"/> <input type="button" value="Clear"/>	

Figure 2.73 Faulty Cable Information Update Window.

- User can update elements and problems fields here.
- For closing a Faulty cable check close checkbox and a popup appears:

Close Faulty Cable

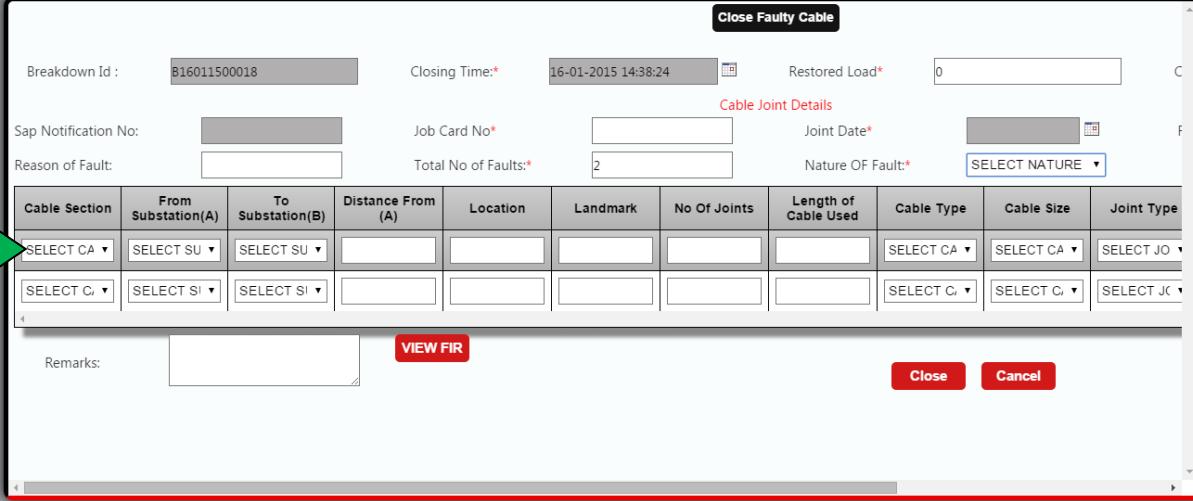
Breakdown Id : <input type="text" value="B16011500018"/>	Closing Time*: <input type="text" value="16-01-2015 14:38:24"/>	<input type="checkbox"/> Restored Load: <input type="text" value="0"/>	Closing Status: <input type="text" value="SELECT CLOSING STATUS"/>
Remarks: <input type="text"/>		<input type="button" value="Close"/> <input type="button" value="Cancel"/>	

SELECT CLOSING STATUS
 RESTORED
 CABLE FOUND HEALTHY

Figure 2.74 Faulty Cable Closing Window

- User can enter closing time, Restored load.
- User can select the closing status restored or cable found healthy.
- If the user selects the option **cable found healthy** then faulty cable is closed.

- If the user selects the option **restored** then enter cable joint details as shown in figure :



Close Faulty Cable

Breakdown Id :	B16011500018	Closing Time:*	16-01-2015 14:38:24	Restored Load:*	0					
Sap Notification No:		Job Card No*		Joint Date*						
Reason of Fault:		Total No of Faults:*	2	Nature Of Fault:*	SELECT NATURE ▾					
Cable Section	From Substation(A)	To Substation(B)	Distance From (A)	Location	Landmark	No Of Joints	Length of Cable Used	Cable Type	Cable Size	Joint Type
SELECT CA ▾	SELECT SU ▾	SELECT SU ▾						SELECT CA ▾	SELECT CA ▾	SELECT JO ▾
SELECT C _i ▾	SELECT SI ▾	SELECT SI ▾						SELECT C _i ▾	SELECT C _i ▾	SELECT JC ▾

Remarks:

VIEW FIR **Close** **Cancel**

Figure 2.75 Cable Joint Information Window

2.6 DOMS Breakdown maintenance Process

- Break down maintenance are generated after breakdown closed according to affected element and problem and displayed in status page.

OPEN FAULTS								ALL	BD	FLC	BD MAINT	LSHED	PS	ES
ID	DIVISION	GRID/SUBSTATION	FEEDER/DT	VOLTAGE	OPEN TIME	DURATION	RESOURCE							
B16011500020	LNR	AKSHARDHAM TEMPLE GRID SSTN	(012072)->AKSHARDHAM GRID_11kV_CB_CWG S/STN 01.(ABB.VCB)	HT	16/01/2015 14:52:51	16/01/2015 17:52:51								
P16011500013	DRG	I.G. STADIUM 33/11kV GRID S/STN	(008843)->I.G.STADIUM GRID_11kV_CB_PLAYERS BLDG.-1(ABB_SF6)	HT	16/01/2015 13:35:12	16/01/2015 13:35:12								

Figure 2.76 Status Window displaying Breakdown Maintenance

- Click on that breakdown maintenance ID and the information update window for breakdown maintenance would open.

Figure 2.77 Breakdown Maintenance Information Update Window

- For closing breakdown maintenance, check the close checkbox and a popup would open.

Figure 2.78 Breakdown Maintenance Closing Window

- Fill in the closing time, Restored load mandatory fields to close the Breakdown Maintenance.
- For DT fault the user is required to enter DT FIR details here as shown in Figure 35.

er Limited Intelligent Outage Management System

Close Breakdown

Breakdown Id :	B16011500020	Closing Time*	16-01-2015 14:53:19
Restored Load*	0	Remarks:	<input type="text"/>
DT FIR DETAIL			
Transformer Make*	<input type="text"/>	Transformer Sr. No.*	<input type="text"/>
Dt Meter No.*	<input type="text"/>	DT Rating*	<input type="text"/>
Oil Level*	<input type="text"/>	BDV of Oil:	<input type="text"/>
Loading*	R: <input type="text"/> Y: <input type="text"/> B: <input type="text"/> N: <input type="text"/>	IR Value*	HT-E <input type="text"/> LT-E <input type="text"/> HT-LT <input type="text"/>
Down Time(Hours)*	<input type="text"/>	DT Equipment Code	DL-1LDTRVA99054655
DT FIR Remarks	<input type="text"/>		

View Fir **Close** **Cancel**

Figure 2.79 DT FIR Information Window.

2.7 DOMS Load shedding Process

- Select the load shedding process from the DOMS dropdown list to register the load shedding activity.

LOAD SHEDDING

Load Shedding Id :

Grid:*

Substation:

Load(Amp):* 0

Voltage:*

Open Time:*

Reason:

Name:*

Designation:

Division:*

Feeder:*

DT:

LT feeder:

Expected Duration:*

Remarks:

INFORMED BY

Employee No:

Contact No:

Register **Clear**

Figure 2.80 DOMS Load Shedding Registration Window

- Select the Division, Grid, Feeder, Substation, DT, Voltage and LT Feeder for Load shedding.
- Fill in the details viz. load, open time, duration, reason, Remarks, informed by details.
- After filling the all the mandatory and necessary information in load shedding, Click on Register Button and a popup with load shedding id and fault id would be displayed, that load shedding id and fault id can be used for future reference.



Figure 2.81 Pop up Window displaying Load Shedding ID

- The user can click on DOMS status tag that load shedding id will be appear on status window.

OPEN FAULTS								ALL	BD	FLC	BD MAINT	LSHED	PS	ES
ID	DIVISION	GRID/SUBSTATION	FEEDER/DT		VOLTAGE	OPEN TIME	DURATION	RESOURCE						
B16011500022	LNR	PREET VIHAR (33/11kV) GRID SSTN	(009378)-> PREET VIHAR GRID_11kV_CB_PREET VIHAR COMMUNITY CENTRE (CGL, VCB)	HT	16/01/2015 15:00:09	16/01/2015 16:00:09		JLM-BH-1						
B16011500024	CCK	220kV ISBT KASHMERE GATE GRID S/STN (220/33/11kV, TRANSCO)	(012109)-> 220 KV GRID KASHMERIC GATE_11kV_CB_HAMILTON ROAD	HT	16/01/2015 14:55:26	16/01/2015 14:55:26								
P16011500013	DRG	I.G. STADIUM 33/11kV GRID S/STN	(008843)->I.G.STADIUM GRID_11kV_CB_PLAYERS BLDG-1 (ABB, SF6)	HT	16/01/2015 13:35:12	16/01/2015 13:35:12								
L16011500001	KRN	F-BLK PREET VIHAR,	TRF-1/F-BLK PREET VIHAR,	LT	16/01/2015 14:57:38	16/01/2015 14:57:38								

Figure 2.82 Status Page displaying Load Shedding

- The User can check the status of faults by various colour codes available colour band tab on status page.
- Click on that load shedding ID and the information update page for Load shedding would open.

LOAD SHEDDING

Load Shedding Id : L1601150001

Grid*: PREET VIHAR (33/11KV) GRID SSTN

Substation: DDA PUMP HOUSE (NEW) CHITRA VIHAR G-2, PREET VIHAR.ID

Load(Amp)*: 0

Voltage*: LT

Open Time: 16-01-2015 14:57:38

Reason: BREAKDOWN

Division*: KRISHNA NAGAR

Feeder*: (013412)->PREET VIHAR GRID_11KV_CE

DT: TRF-1:F-BLK PREET VIHAR(400 KVA)

LT feeder: LT FEEDER 1 NO LOAD

Expected Duration*: 0 Hrs. 0 Min. 16-01-2015 14:57:38

Remarks:

INFORMED BY

Name*: RAM

Designation: Designee

Employee No:

Contact No:

Close

Update Clear

Figure 2.83 Load Shedding Information Update Window

- The User can update the reasons and remarks fields.
- For closing the load shedding , check the close checkbox and a popup would open.

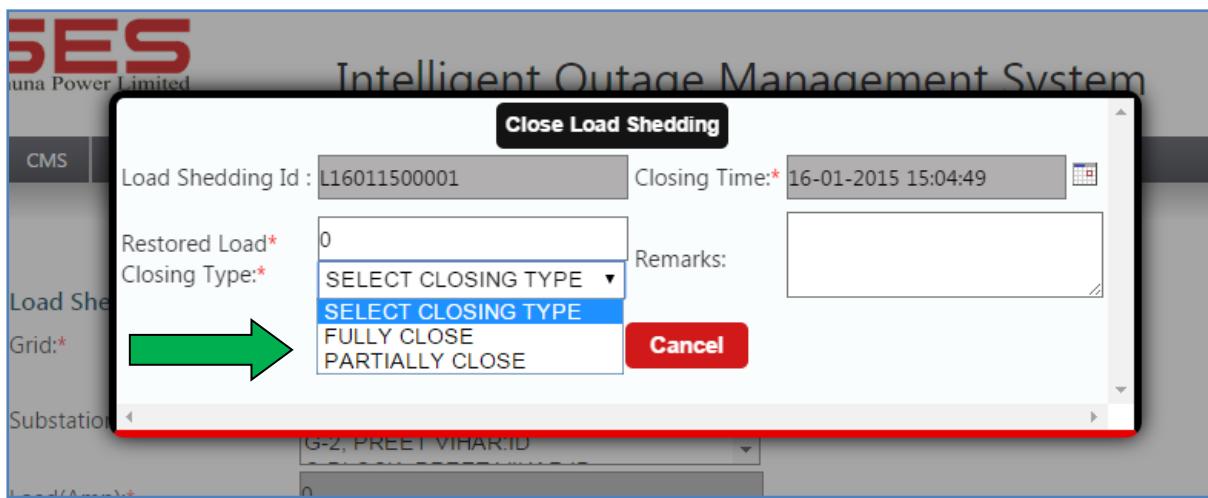


Figure 2.84 Load Shedding Closing Window

- The user is required to enter closing time, Restored load.
- The user can select closing type **Fully or Partial**.
- If the user selects the option **Fully** then load shedding is closed.
- In case of **Partial** closing, then the user is required to select elements which are required to be closed.

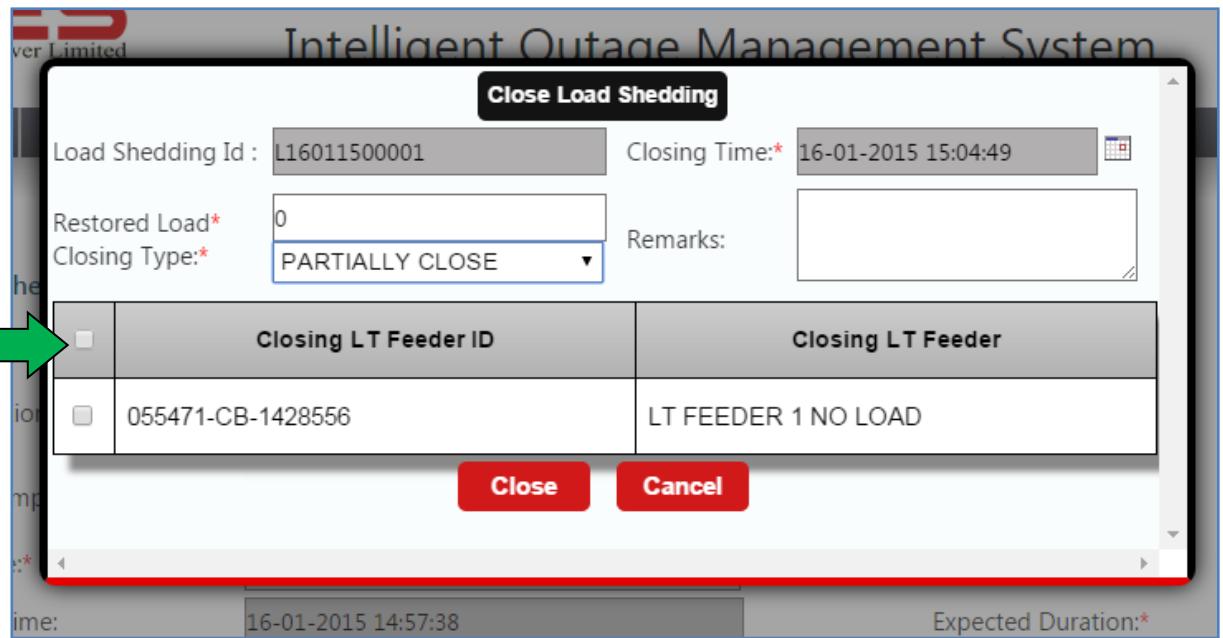


Figure 2.85 Load Shedding Partially Closing Window

- After the partial closing selected elements are closed and rest remained open.

3. C.M.S.: Complaint Management System

3.1 Description

Complaint Management System module of O.M.S. will be used for managing consumer complaints. The basic following operations can be performed in C.M.S. module:

- Register new consumer complaints.
- Check status and update details of registered complaint.
- Assign registered complaint to team.
- Close assigned complaints after power restoration.
- Reopen a Complaint if power not restored.
- View Areas under outage with number of complaints registered.
- Generate Reports.

3.2 User Privileges and Rights

The different User-Rights in C.M.S. module are:

Table 1 User Rights Details

User-Right	Description
CMS	To access C.M.S. module.
CMSSTATUS	To view status of complaints.
CMSNEW	To register new complaint.
CMSUPDATE	To update complaint details.
CMSASSIGN	To assign lineman to complaints.
CMSCLOSE	To close assigned complaints.
CMSREOPEN	To Re-open closed complaints.
TEAM	To access Team-management module.
CMSTEAM	To access C.M.S. Team-management module.
REPORTS	To access reports module.
CMSREPORTS	To access C.M.S. reports.

3.3 Accessible Links in C.M.S.

1. COMPLAINT REGISTRATION
2. COMPLAINT REGISTRATION (STREET LIGHT)
3. STATUS
4. REOPEN COMPLAINT
5. AREAS UNDER OUTAGE
6. TEAM MANAGEMENT
7. C.M.S. REPORTS

3.4 Functions

3.4.1 Complaint Registration

The complaint Registration process is as follows:

- Select the **COMPLAINT REGISTRATION** from **C.M.S.** module to open the Complaint Registration form. Fill in the details to register your complaint. (As shown in Figure 4-i).

The screenshot shows the 'Complaint Registration' page of the BSES Intelligent Outage Management System. The top navigation bar includes links for HOME, CMS, DOMS, EMS, TEAM, REPORTS, and ADMIN. The CMS logo is visible in the top right corner, along with the date 09 35 27 [16-Jan. 2015]. A user is logged in as 41015513, with options for 'My Account' and 'Logout'. The main form area is titled 'Complaint Registration' and contains the following fields:

Area: *	<input type="text"/>	CA No.	<input type="text"/>
Division	<input type="text"/>	Consumer Reference No	<input type="text"/>
Complaint Centre *	<input type="text"/>	Email ID	<input type="text"/>
Complaint Category *	<input type="text"/>	Complaint Center Phone	<input type="text"/>
Type of Fault *	<input type="text"/>	Consumer Name	<input type="text"/>
Caller Name *	<input type="text"/> C	Connection Category	<input type="text"/>
Caller Number *	<input type="text"/> C	Consumer Mobile No.	<input type="text"/>
Meter No.	<input type="text"/>	Outage since (hours:mins)	0 <input type="text"/> 0
Consumer\Caller Address *	<input type="text"/>	Remarks	<input type="text"/>
Alternate Contact No.	<input type="text"/>		

Below the form are three buttons: 'Status Page', 'Register', and 'Reset'. A note at the bottom states: 'Fields marked with * are Mandatory'. The footer contains the copyright information: 'Copyright BYPL All Rights Reserved.'

Figure 3.86 Complaint Registration Page

- Mandatory fields are Marked with * symbol. On Entering CA, CRN or Meter number consumer details are automatically filled by the system (As shown in 4-ii).

Complaint Registration

Area: *	KASHMERE GATE,MORI GATE	CA No.	100215763	Search by Comp./Mobile No
Division	CHANDNI CHOWK	Consumer Reference No	1110112603	Outage Areas Consumer History
Complaint Centre *	HAMILTON ROAD	Email ID		mandatory fields for autofilling consumer details
Complaint Category *	SELECT CATEGORY	Complaint Center Phone		automatically filled fields on filling mandatory autofilling fields
Type of Fault *		Consumer Name	RAJ KUMARI SHARMA	
Caller Name *		Connection Category	REGULAR CONSUMER	
Caller Number *		Consumer Mobile No.	9313877162	
Meter No.	13856421	Outage since (hours:mins)	0 : 0	
Consumer\Caller Address *	NA, H.NO. 1593 T/F, MADARSA ROAD,KASHMERE GATE, DELHI	Remarks		
Alternate Contact No.				
Status Page		Register	Reset	

Fields marked with * are Mandatory

Figure 3.87 Consumer Complaint Information Page

- Fill all mandatory fields and click **Register** Button. If the complaint registration is successful a message box will appear and display the details of registered complaint (As shown in 4-iii).

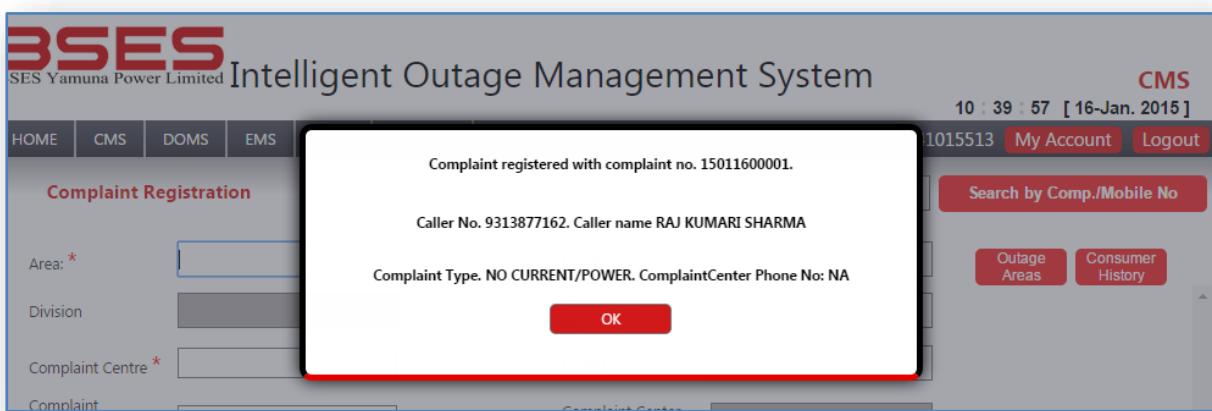


Figure 3.88 Complaint Registration Message

3.4.2 Complaint Status

- To view the list of all registered complaints select **STATUS** from **C.M.S.** module. Open complaints' status page will appear (As Shown in Figure 4-iv).

BSES Intelligent Outage Management System CMS
10 : 56 : 02 [16-Jan. 2015]

Logged in as 41015513 My Account Logout

Complaint Status		ALL	PGCELL	CMHOUSE	ST-LIGHT	EMERGENCY	METER	INDIVIDUAL	AREA
		<input type="text"/>		Search by Comp./Mobile No		Register new complaint		Total 22 Complaint(s)	
Complaint No	Registration Time	HH:MM	Complaint Type	ComplaintCentre	Area	CallerName	CallerPhone	Searched	
15010200002	02-01-2015 11:40:15	33 : 15	WIRE BROKEN	WJYOTI NAGAR(BEHIND GOPAL NURSING)	AMAR COLONY,MANDOLI	sonaley cables	8754125412	3	
14122600002	02-01-2015 12:03:14	33 : 52	STREET LIGHT NOT WORKING	PUSA ROAD	BLOCK 12,KAROL BAGH	Manish Rautela	8802670645	1	
14122300004	02-01-2015 12:12:28	33 : 42	STREET LIGHT NOT WORKING	KRISHNA NAGAR C-BLOCK, LAL QUARTER	BLOCK A,KRISHNA NAGAR	Amit KUMAR	8802670645	1	
15011200001	12-01-2015 12:50:30	94 : 04	CURRENT LEAKAGE IN HOUSE	S STN No 6 I P Extn MANDAWALI	BLOCK A,GANESH NAGAR SOUTH,INDRAPRASTHA EXTENSION	Ashwani	9350261826	0	
15011300002	13-01-2015 16:30:06	66 : 25	FLUCTUATION		PUNJABI BASTI,ANAND PARBAT	MOHINDER SINGH	9871785754	0	
15011300003	13-01-2015 16:30:27	66 : 24	FLUCTUATION		PUNJABI BASTI,ANAND PARBAT	Mr. GUNJAN KUMAR	9711415135	0	

Page Auto Refresh Settings

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Figure 3.89 Complaints Status

- Complaints can be sorted according to categories by selecting appropriate tab (As shown in Figure 4-v).

BSES Intelligent Outage Management System CMS
11 : 03 : 24 [16-Jan. 2015]

Logged in as 41015513 My Account Logout

Complaint Status		ALL	PGCELL	CMHOUSE	ST-LIGHT	EMERGENCY	METER	INDIVIDUAL	AREA
------------------	--	-----	--------	---------	----------	-----------	-------	------------	------

Figure 3.90 Complaint Categories Tabs

- A particular complaint can be searched by typing the complaint-number or Caller's mobile number in the textbox and clicking the **Search by Comp./Mobile No.** button (As shown in Figure 4-vi).

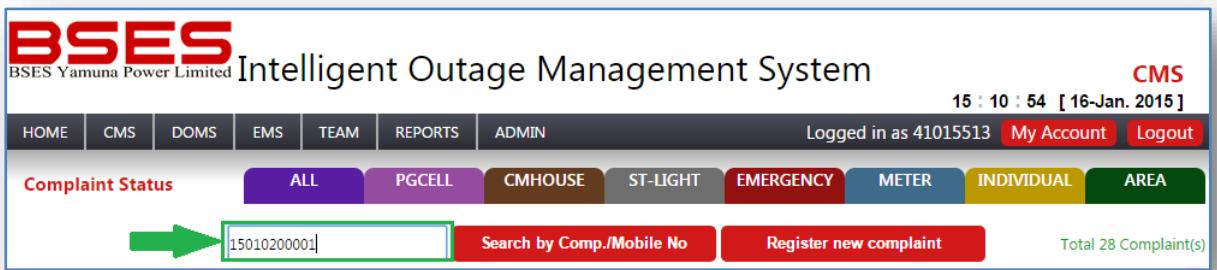


Figure 3.91 Complaint Search Box

- The Status page auto-refreshes in 5 minutes. The refresh interval can be changed by clicking the **Page Auto Refresh Settings** button. On clicking it a message box will appear the textbox to enter the new interval (As shown in Figure 4-vii)

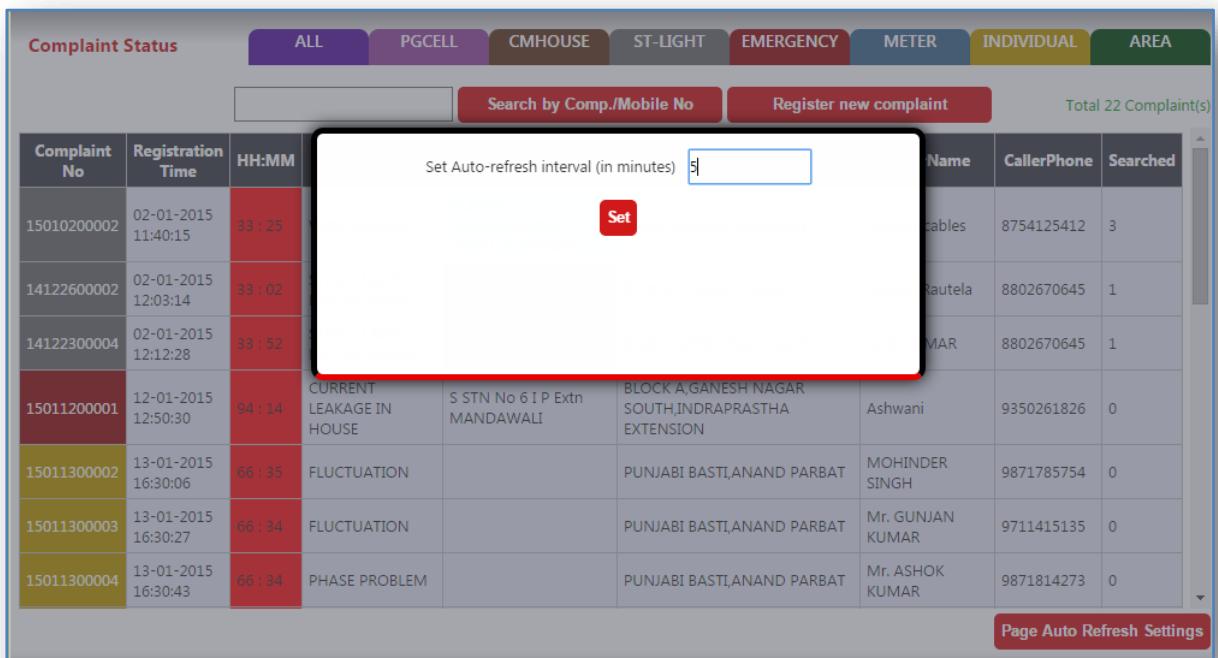


Figure 3.92 Page Auto Refresh Settings

- Different colour Codes are used on the page (As shown and explained in Figure 4-viii)

The screenshot shows a web-based application interface for managing complaints. At the top, there's a header with the BSES logo, the text "Intelligent Outage Management System", and a timestamp "11 : 18 : 10 [16-Jan. 2015]". Below the header is a navigation bar with links for HOME, CMS, DOMS, EMS, TEAM, REPORTS, and ADMIN. To the right of the navigation bar, it says "Logged in as 41015513" followed by "My Account" and "Logout".

The main content area is titled "Complaint Status" and contains a table with the following columns: Complaint No, Registration Time, HH:MM, Complaint Type, ComplaintCentre, Area, CallerName, CallerPhone, and Searched. There are also buttons for "Search by Comp./Mobile No" and "Register new complaint". A total count of "Total 28 Complaint(s)" is displayed.

The table rows represent individual complaints, each with a unique ID and specific details. Some cells contain status indicators like "UNASSIGNED", "REOPENED", and "ASSIGNED", which are color-coded (green, red, blue).

Complaint No	Registration Time	HH:MM	Complaint Type	ComplaintCentre	Area	CallerName	CallerPhone	Searched
15011600007	16-01-2015 11:17:36	00:00	BILLING RELATED	COMPLAIN CENTRE LAHORI GATE	FRASH KHANA,CHANDANI CHOWK	BRU MOHAN	9868203177	0
15011600006	16-01-2015 11:17:17	00:00	CMHOUSE	COMPLAIN CENTRE LAHORI GATE	KATRA NAWAB,CHANDANI CHOWK	Mr. PURUSHOTTAM DASS RUSTAGI	9350316144	0
15011600005	16-01-2015 11:17:00	00:00	FLUCTUATION IN AREA	COMPAIN CENTRE OLD LAJPAT RAI MKT	KUCHA ALAM,CHANDANI CHOWK	RAVI KUMAR VERMA	01123289226	0
15011600004	16-01-2015 11:16:30	00:01	FIRE IN HOUSE	COMPLAIN CENTRE LAHORI GATE	UNASSIGNED	AMINA BEGUM	9871490017	0
14122800001	15-01-2015 15:23:14	19:59	METER BOX HANGING	YAMUNA VIHAR C-12	REOPENED	Mr. DEEPAK KUMAR PARASHAR .	8510000556	0
15011600002	16-01-2015 11:15:47	00:02	NO CURRENT/POWER	COMPLAIN CENTRE LAHORI GATE	NAYA BAZAR,CHANDANI CHOWK	SAROJ	9311268683	0
15010200002	02-01-2015 11:40:15	33:37	WIRE BROKEN	W.JYOTI NAGAR(BEHIND GOPAL NURSING)	ASSIGNED	sonaley cables	8754125412	3

Figure 3.93 Colour Coding of Complaints

- To view details of a complaint, click on the **Complaint No.** of any complaint. (As shown in Figure 4-ix)

This screenshot shows the same application interface as Figure 3.93, but with a different focus. The "Complaint No" column is highlighted, indicating that clicking on these numbers will lead to more detailed information about each individual complaint.

Complaint No	Registration Time	HH:MM	Complaint Type	ComplaintCentre	Area	CallerName	CallerPhone	Searched
15010200002	02-01-2015 11:40:15	33:12	WIRE BROKEN	W.JYOTI NAGAR(BEHIND GOPAL NURSING)	AMAR COLONY,MANDOLI	sonaley cables	8754125412	3
14122800002	12/03/14	33:49	STREET LIGHT NOT WORKING	PUSA ROAD	BLOCK 12,KAROL BAGH	Manish Rautela	8802670645	1

Figure 3.94 Complaint Number as Hyperlink

3.4.3 Update Complaint details

The complaint update process is as follows:

- Select any complaint from Status page. The Complaint details page will appear (As shown in Figure 4.3-i).

View Complaint Details		Complete Details of the Complaint	
Complaint No	15011600006	Current Status	UNASSIGNED
Area:	KATRA NAWAB,CHANDANI CHOWK	CA No.	100215885
Division	CHANDNI CHOWK	Consumer Reference No	1110129474
Complaint Centre	COMPLAIN CENTRE LAHORI GATE	Email ID	
Complaint Category	CMHOUSE	Caller Name	MR. PURUSHOTTAM DASS RUSTA
Type of Fault	CMHOUSE	Consumer Name	MR. PURUSHOTTAM DASS RUSTA
Caller Number	9350316144	Consumer Mobile No.	9350316144
Meter No.	14207458	Outage since (hours:mins)	0 : 0
Consumer\Caller Address	4225/221, 4225/221, NA, S/F TEXTILE MARKET JOGI WARA, NAI SARAK, DELHI	Remarks	
Alternate Contact No.		Date Registered	16/01/2015 11:17:17
Status Page		Edit Details	Assign
			Increase Count (0)

Figure 3.95 Complaint Detail's Page

- 2) Click on the **Edit Details** button (As shown in Figure 4.3-i).
- 3) A new page will appear which will allow us to change the **Type of Fault** and **add details** which were not filled initially (As shown in Figure 4.3-ii).

Edit Complaint			
Complaint No	15011600006	Current Status	UNASSIGNED
Area: *	KATRA NAWAB,CHANDANI CHOWK	CA No.	100215885
Division	CHANDNI CHOWK	Consumer Reference No	1110129474
Complaint Centre *	COMPLAIN CENTRE LAHORI GATE	Email ID	naveenchauhanctae@live.in
Complaint Category *	CMHOUSE	Date Registered	16/01/2015 11:17:17
Type of Fault *	CMHOUSE	Consumer Name	MR. PURUSHOTTAM DASS RUSTA
Caller Name *	MR. PURUSHOTTAM DASS RUSTA	Connection Category	
Caller Number *	9350316144	Consumer Mobile No.	9350316144
Meter No.	14207458	Outage since (hours:mins)	0 : 0
Consumer\Caller Address *	4225/221, 4225/221, NA, S/F TEXTILE MARKET JOGI WARA, NAI SARAK, DELHI	Remarks	ENTER SOME REMARK HERE
Alternate Contact No.	8010938636	Status Page	
		Save	

Figure 3.96 Complaints Details Update Information Page

- 4) After making the necessary changes click on the **Save** button (As shown in Figure 4.3-ii). The complaint details page will appear again showing the updated details (As shown in Figure 4.3-iii).

The screenshot shows a web-based application for managing complaints. At the top, there is a navigation bar with links for HOME, CMS, DOMS, EMS, TEAM MANAGEMENT, REPORTS, and ADMIN. On the right side of the header, it says 'Logged in as 41015513' followed by 'My Account' and 'Logout' buttons.

The main content area is titled 'View Complaint Details' and displays the following data:

Complaint No	15011600006	Current Status	UNASSIGNED
Area:	KATRA NAWAB, CHANDNI CHOWK	CA No.	100215885
Division	CHANDNI CHOWK	Consumer Reference No	1110129474
Complaint Centre	COMPLAIN CENTRE LAHORI GATE	Email ID	NAVEENCHAUHANCTAE@LIVE.IN
Complaint Category	CMHOUSE	Caller Name	MR. PURUSHOTTAM DASS RUSTA
Type of Fault	CMHOUSE	Consumer Name	MR. PURUSHOTTAM DASS RUSTA
Caller Number	9350316144	Consumer Mobile No.	9350316144
Meter No.	14207458	Outage since (hours:mins)	0 : 0
Consumer\Caller Address	4225/221, 4225/221, NA, S/F TEXTILE MARKET JOGI WARA, NAI SARAK, DELHI	Remarks	ENTER SOME REMARKS HERE
Alternate Contact No.	8010938636	Date Registered	16/01/2015 11:17:17

At the bottom of the page are four red buttons: 'Status Page', 'Edit Details', 'Assign', and 'Increase Count (0)'. A green arrow points from the 'Assign' button towards the 'Date Registered' field.

Figure 3.97 Complaint Details Page

3.4.4 Assign Complaint to Team

The complaint update process is as follows:

- Select any complaint from Status page. The Complaint details page will appear (As shown in Figure 4.4-i).

This screenshot is identical to Figure 3.97, showing the 'View Complaint Details' page with updated complaint information. The data is the same as in Figure 3.97.

A large green arrow points from the bottom left towards the 'Assign' button, indicating where the user should click to assign the complaint to a team.

Figure 3.98 Complaints details Page for Assignment

- Click on the **Assign** button (As shown in Figure 4.4-i).
- A new page will appear which will allow us to select a team in the same division as of the complaint registered (As shown in Figure 4.4-ii).

The screenshot shows the 'Assign Complaint' page. At the top, there are navigation links: HOME, CMS, DOMS, EMS, TEAM, REPORTS, ADMIN, and user information: Logged in as 41015513, My Account, and Logout. Below this, the title 'Assign Complaint' is displayed with the sub-instruction 'Select Team for this complaint'. The form contains the following fields:

Complaint No.	15011200001	Consumer\Caller Address	A 23 GANESH NAGAR
Area:	BLOCK A,GANESH NAGAR SOUTH	Complaint Centre	S STN NO 6 I P EXTN MANDAWA
Division	LAXMI NAGAR	Consumer Reference No.	
CA No.		Caller Name	ASHWANI
Consumer Name		Caller Number	9350261826
Consumer Mobile No.		Type of Fault	CURRENT LEAKAGE IN HOUSE
Complaint Category	EMERGENCY	Email ID	
Meter No.		Outage since (hours:mins)	0 : 0
Remarks		Team members	LINEMAN-ANTHONY
Alternate Contact No.			
Team	CC and party SELECT TEAM CC and party	Save	

Two green arrows point to the 'SELECT TEAM' option in the dropdown menu under the 'Team' field and the red 'Save' button.

Figure 3.99 Complaints Assignment Page

- Click on the **Save** button. If assignment is successful, a message box will appear with details of assignment (As shown in Figure 4.4-iii).

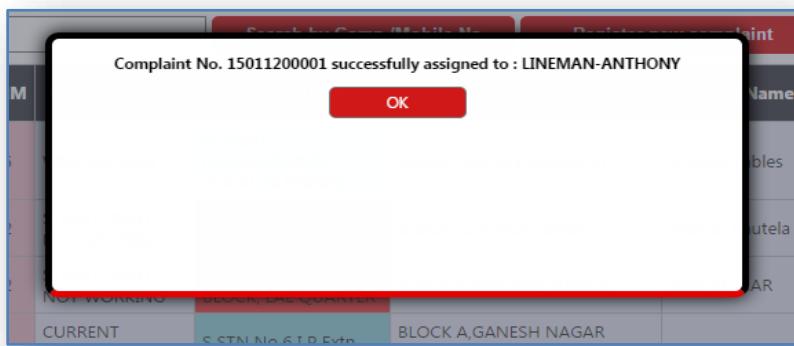


Figure 3.100 Complaint Assignment Message

3.4.4 Close Complaint

The process of closing an assigned complaint is as follows:

- Select any assigned complaint from Status page. The Complaint assignment page will appear.

- Category wise closing of complaints is explained as follows:
 - INDIVIDUAL, EMERGENCY, AREA, CMHOUSE, PGCELL, METER (METER DAMAGED BY EXTERNAL AGENCY, POLE DAMAGED, METER STOLEN, METER BOX HANGING)**

Close Complaint

Complaint No	15011200001	Current Status	ASSIGNED
Area:	BLOCK A,GANESH NAGAR SOUTH	CA No.	
Division	LAXMI NAGAR	Consumer Reference No	
Complaint Centre	S STN NO 6 I P EXTN MANDAWA	Email ID	
Complaint Category	EMERGENCY	Caller Name	ASHWANI
Type of Fault	CURRENT LEAKAGE IN HC ▾	Consumer Name	
Caller Number	9350261826	Consumer Mobile No.	
Alternate Contact No.		Outage since (hours:mins)	0 : 0
Consumer\Caller Address	A 23 GANESH NAGAR	Remarks	
Registration Date	12-01-2015 12:50:30	Assignment Date	16-01-2015 15:05:26
Team	CC AND PARTY	Team members	LINEMAN-ANTHONY
UserID of Assigner	41015513	Other Remark Details	
ClosingRemark	SUPPLY RESTORED ▾	CABLE TAPED	
Meter No.		Closing Date	16/01/2015 15:49

[Re-Assign](#)
[Status Page](#)
[Close](#)
[Increase Count \(0\)](#)

Figure 3.101 Complaint Closing Page

- METER (METER TOTALLY BURNT, METER PARTIALLY BURNT METER BOX DAMAGED, METER SPARKING).** **CA or CRN or Meter number** is mandatory for closing these complaints. After closing these complaints a service order will be generated in SAP and Service-Order number will displayed in a message box (As shown in figure 4.5-ii).

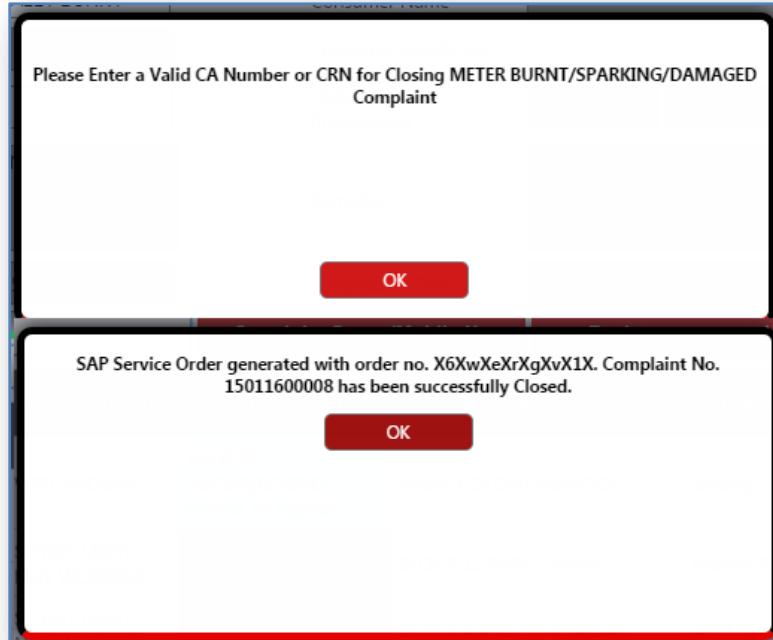


Figure 3.102 Complaint Closing Message

■ **STREET LIGHT.**

Pole number is mandatory for closing these complaints (As shown in Figure 4.5-iii)

Close Street-Light Complaint			
Complaint No	15010200002	Current Status	ASSIGNED
Area:	AMAR COLONY,MANDOLI	Alternate Contact No.	
Division	NAND NAGRI	Complaint Centre	W.JYOTI NAGAR(BEHIND GOPAL
Complaint Category	STREETLIGHT	Caller Name	SONALEY CABLES
Type of Fault	WIRE BROKEN	Caller Number	8754125412
Consumer\Caller Address	MURARI BHAWAN	Remarks	
User ID of Assigner	41015505	Assignment Date	15-01-2015 20:17:52
Opening Time	02-01-2015 11:40:15	Team members	ASSISTANT-NNG1A1 ASSISTANT-NNG1A2 LINEMAN-NNG1
Team	TEAM NNG1	Closing Date	16/01/2015 16:16
Pole Number *	SRDA212	Other Remark Details	
Closing Remark *	REPLACEMENT DONE		
Location(St. Light)	MAIN ROAD		
Re-Assign Status Page		Close Assign Materials	Increase Count (3)

Figure 3.103 Complaint Closing Page (Street Light)

In case of **Replacement done** as closing remark a new message box will appear for providing materials used details (As shown in Figure 4.5-iii).

Select HPSV Lamp	0	Select Choke	0	Select Igniter	0
Select LampHolder	0	Select HPSV Fitting	0	Select Cable	0
Select Aluminium Socket	0	Select MCB	0	Select Fuse Wire	0
Select Pole	0	Select Switch	0		
Tube 40 Watts (Nos.)	0	Starter 40 Watts (Nos.)	0	Tube /FT Holder (Nos.)	0
PVC Tape (Nos.)	0	HRC Base (Nos.)	0	HRC Fuse 150 Amps (Nos.)	0
Timer (Nos.)	0	Contactor (Nos.)	0	G.I. Pipe (Meters)	0
Iron clamps (Nos.)	0	Tube 40 Watts (Nos.)	0		

Save

Figure 3.104 Details of Streetlight Material Used

3.4.4 Reassign Complaint

An assigned complaint can be reassigned to another team. The process of reassigning an assigned complaint is as follows:

- 1) Select any assigned complaint from Status page. The Complaint assignment page will appear (As shown in Figure 4.6-i).

Opening Time	02-01-2015 11:40:15	Assignment Date	15-01-2015 20:17:52
Team	TEAM NNG1	Team members	ASSISTANT-NNG1A1 ASSISTANT-NNG1A2 LINEMAN-NNG1
Pole Number *		Closing Date	16/01/2015 16:38
ClosingRemark *	SELECT CLOSING REMARK	Other Remark Details	
Location(St. Light)	MAIN ROAD		

Re-Assign **Status Page** **Close** **Assign Materials** **Increase Count (3)**

Figure 3.105 Complaints Details page for Reassignment

- 2) Click on the **Re-Assign** button. On clicking the current team will be de-allocated the particular complaint and the complaint assignment page will open for assignment as per [Section 3.4.4](#).

3.4.5 Reopen or save feedback of closed complaints

After a complaint has been closed, there are three actions that can be performed on it up to 24 hours after closure. These are:

- REOPEN
- MARK RESOLVED
- MARK NO CONTACT

To view list of closed complaints select **REOPEN COMPLAINT** from C.M.S. module. A page will appear with list of all closed complaints within last 24 hours As shown in Figure 4.7-i).

Complaint No	Area	ComplaintType	ClosingRemark	Registration Time	Closing Time	CallerName	CallerPhone	Action	Action	Action
15011600008	RESOLVED	METER TOTALLY BURNT	SUPPLY RESTORED	16-01-2015 15:00:50	16-01-2015 16:12:00	Naveen	8802670645	ReOpen	Resolved	Nocontact
15011600003	NO CONTACT	METER SPARKING	METER BURNT SUPPLY BY PASSED	16-01-2015 11:16:15	16-01-2015 16:47:00	M/s. GRACE INDIA SHOP 61	01123281860	ReOpen	Resolved	Nocontact
14123100008	NO FEEDBACK YET	FLUCTUATION IN AREA	SERVICE LINE LOOSE	31-12-2014 16:39:32	16-01-2015 17:29:00	Mayank	8010938656	ReOpen	Resolved	Nocontact
14123000001	AJMAL KHAN PARK,KAROL BAGH	NO POWER IN AREA	OVER LOADING	31-12-2014 14:26:08	16-01-2015 17:29:00	Asaf Ali Saab	8010938636	ReOpen	Resolved	Nocontact
15011200001	BLOCK A,GANESH NAGAR SOUTH,INDRAAPRASTHA EXTENSION	CURRENT LEAKAGE IN HOUSE	SUPPLY RESTORED	12-01-2015 12:50:30	16-01-2015 16:46:00	Ashwani	9350261826	ReOpen	Resolved	Nocontact

Figure 3.106 Closed Complaints Status Page

To reopen a complaint click on **Reopen** button against that complaint in the action column, to Mark a complaint resolved click on **Resolved** button against that complaint in the action column, if the consumer cannot be contacted then click **No-contact** Button (As shown in Figure 4.7-i).

Different Status complaints have different colours (As shown in Figure 4.7-i).

The closed complaints with closing remarks:

- a. SERVICE LINE LOOSE
- b. TEMPORARILY RESTORED

are considered under maintenance, as these complaints are closed but still the fault has not been rectified. These complaints can separately be viewed by clicking on the **Comps. Under Maintenance** button. These complaints keep blinking with red colour in their closing remarks column (As shown in figure 4.7-i)

3.4.6 Areas under outage

To view the list of areas currently under outage with complete details of outage:

- Select AREAS UNDER OUTAGE from C.M.S. module.

A new page will appear with list of Areas under Outage and other details (As shown in Figure 4.8-i).

DIVISION	AREA	CAUSE	START-DATE	EXPECTED END-DATE	EXPECTED HOURS	NO OF COMPLAINTS
SHANKAR ROAD	AJMAL KHAN PARK,KAROL BAGH	BREAKDOWN	12-01-2015 16:10:41	12-01-2015 18:10:41	0.671	1
CHANDNI CHOWK	KHUSH DIL,CHANDANI CHOWK	BREAKDOWN	12-01-2015 16:10:41	12-01-2015 18:10:41	0.671	1
LAXMI NAGAR	BHARTI COLONY,NIRMAN VIHAR,SHAKARPUR	BREAKDOWN	12-01-2015 16:10:41	12-01-2015 18:10:41	0.671	4

Figure 3.107 Areas under Outage Information Page

On clicking on the name of any Area all complaints registered in that area will be listed (As shown in Figure 4.8-ii).

Complaint Status	ALL	PGCELL	CMHOUSE	ST-LIGHT	EMERGENCY	METER	INDIVIDUAL	AREA
								Total 4 Complaint(s)
Complaint No	Registration Time	HH:MM	Complaint Type	ComplaintCentre	Area	CallerName	CallerPhone	Searched
15010900001	09-01-2015 10:10:30	79 : 24	NO CURRENT/POWER	B-BLOCK PREET	BHARTI COLONY,NIRMAN VIHAR,SHAKARPUR	SUSHMA JAYANTI	9268722267	0
15010900003	09-01-2015 10:11:27	79 : 23	PHASE PROBLEM	B-BLOCK PREET	BHARTI COLONY,NIRMAN VIHAR,SHAKARPUR	Ms. MEENAKSHI	9810473816	0
15010900004	09-01-2015 10:12:00	79 : 23	NO CURRENT/POWER	B-BLOCK PREET	BHARTI COLONY,NIRMAN VIHAR,SHAKARPUR	Mr. ASHISH JAIN & Mr. VIVEK JAIN	9871318507	0
15010900006	09-01-2015 11:49:23	77 : 45	NO CURRENT/POWER	B-BLOCK PREET	BHARTI COLONY,NIRMAN VIHAR,SHAKARPUR	GAURAV CHAUHAN	9810473816	0

Figure 3.108 Complaints of an Area under Outage Status

- List of areas under outage can also be viewed from the Complaint registration page. On the registration page click on **Outage Areas** button (As shown in Figure 4.8-ii).

BSES Intelligent Outage Management System CMS
10 23 21 [19-Jan. 2015]

HOME CMS DOMS EMS TEAM REPORTS ADMIN Logged in as 41015513 My Account Logout

Complaint Registration

Area: *

Division

Complaint Centre *

CA No.

Consumer Reference No.

Email ID

Search by Comp./Mobile No

Outage Areas **Consumer History**

Outage Areas **Consumer History**

AREAS UNDER OUTAGE ARE:

- YAMUNA RIVER**
- GTB STAFF COLONY,GURU TEG BAHADUR ENCLAVE**
- UNIVERSITY COLLEGE OF MEDICAL SCIENCES,GURU TEG BAHADUR ENCLAVE**

CAUSE : BREAKDOWN
HOURS REMAINING : 0.412
START TIME : 19-01-2015 09:48:47
EXPECTED ENDTIME : 19-01-2015 10:48:47

Figure 3.109 Areas under Outage on Complaints Registration Page

3.4.7 Team Management

To access C.M.S. team management module, select **CMS** from **TEAM** module. There will be 4 different options visible (As shown in Figure 4.9-i). These options are explained below.

BSES Intelligent Outage Management System CMS
10 32 54 [19-Jan. 2015]

HOME CMS DOMS EMS TEAM REPORTS ADMIN Logged in as 41015513 My Account Logout

Complaint Registration **CMS** **DOMS TEAM**

Area: *

ADD LINEMAN **REMOVE LINEMAN**

ADD TEAM **REMOVE TEAM**

Outage Areas **Consumer History**

AREAS UNDER OUTAGE ARE:

- YAMUNA RIVER**

Figure 3.110 Navigation to CMS Team Management

3.4.7.1 Add Lineman or Assistant

You can add a lineman or assistant here. Enter the details of the lineman or assistant (As shown in Figure 4.9.1-ii).

BSES BSES Yamuna Power Limited Intelligent Outage Management System **TEAM**
10 : 59 : 56 [19-Jan. 2015]
Logged in as 41015513 [My Account](#) [Logout](#)

Add a Lineman or Assistant

Name *	DINANATH
Mobile *	7548485745
Type *	Lineman
Division *	SHANKAR ROAD

Status Page **Save** **Reset**

Figure 3.111 Adding new Linemen or Assistant for Registered Complaint

The mobile number of each lineman must be unique; otherwise the system will display an error message (As shown in Figure 4.9.1-iii)

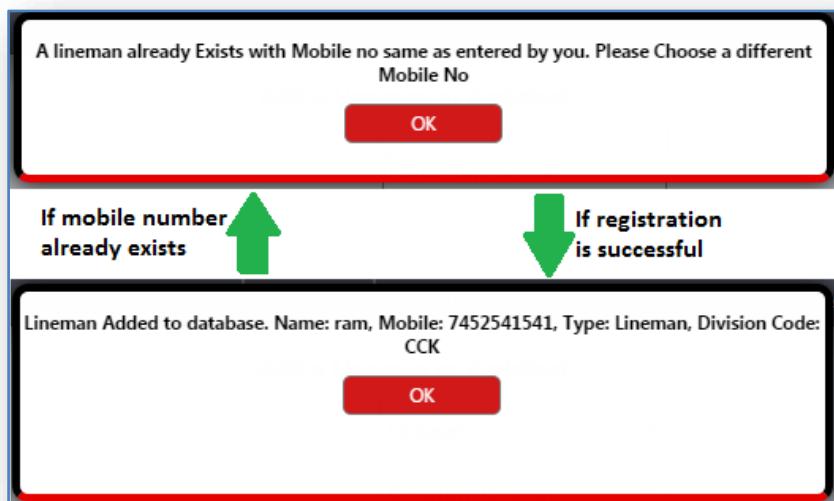


Figure 3.112 Status Message for Addition of Linemen

3.4.7.2 Remove Lineman or Assistant

Any existing lineman or assistant can be removed here. Enter the mobile number of the lineman or assistant and press **Search** button (As shown in Figure 4.9-iv).

The details of the lineman or assistant will be filled automatically.

If the lineman or assistant is currently assigned to a team then the team has to be deleted first (See Figure 4.9-v).

Remove a Lineman or Assistant

Name	<input type="text"/>
Mobile *	<input type="text" value="8010938636"/>
Type	<input type="text"/>
Division	<input type="text"/>

Status Page Search Delete

Remove a Lineman or Assistant

Name	MAYANK KUMAR
Mobile *	8010938636
Type	LINEMAN
Division	SHANKAR ROAD

Status Page Search Delete

Figure 3.113 Removal of new Linemen or Assistant for Registered Complaint

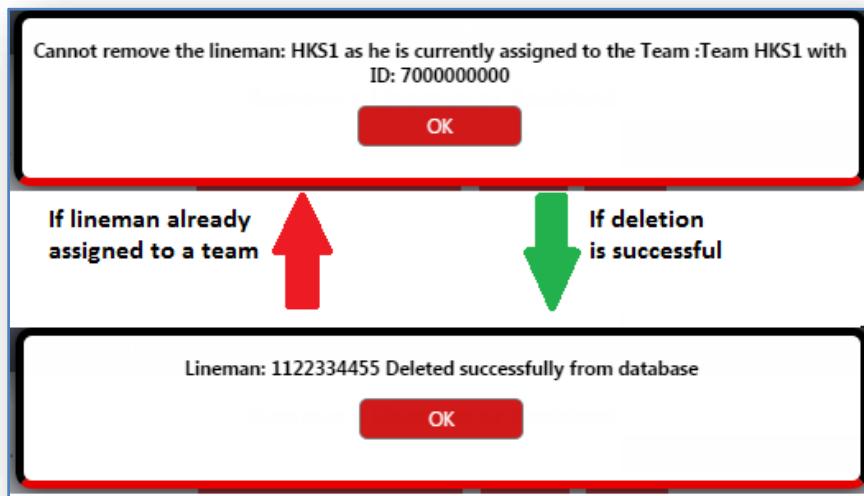


Figure 3.114 Status Message for Removal of Linemen

3.4.7.3 Add Team

You can add team here. Enter the details of the team (As shown in Figure 4.9-vi).

On selecting any Division from the **Division** dropdown list, the linemen and assistants will be automatically filled from that division which are not assigned to any team currently (As shown in Figure 4.9-vii).

To add the team with details filled appropriately click on **Save** button. A message box will appear with the results of the operation (As shown in Figure 4.9-viii).

BSES Intelligent Outage Management System

TEAM
11 : 47 : 26 [19-Jan. 2015]

HOME CMS DOMS EMS TEAM MANAGEMENT REPORTS ADMIN

Logged in as 41015513 My Account Logout

Add Team

TeamName *	MYTEAM
Division *	SHANKAR ROAD
Lineman *	SELECT LINEMAN
Assistant1	SELECT ASSISTANT 1
Assistant2	SELECT ASSISTANT 2
Assistant3	SELECT ASSISTANT 3

Status Page Save Reset

Figure 3.115 Addition of Team for Registered Complaints

Add Team

TeamName *	
Division *	SHANKAR ROAD
Lineman *	SELECT LINEMAN
Assistant1	SELECT LINEMAN Pawan Kumar(9882282992) Mithun(1122334455) ramkishor(8547854785) TEAM2(9999998888) SELECT ASSISTANT 3
Assistant2	
Assistant3	

Status Page Save Reset

Add Team

TeamName *	
Division *	SHANKAR ROAD
Lineman *	Pawan Kumar(9882282992)
Assistant1	SELECT ASSISTANT 1
Assistant2	SELECT ASSISTANT 1 prabhu(8547854786) Raj Kapoor(2233445566) Rambir(4455667788) Ramesh(9737431215) Rishi (3344556677) shamboo(3874327732)
Assistant3	

Status Page

Figure 3.116 Selection of Lineman and assistant for a Team

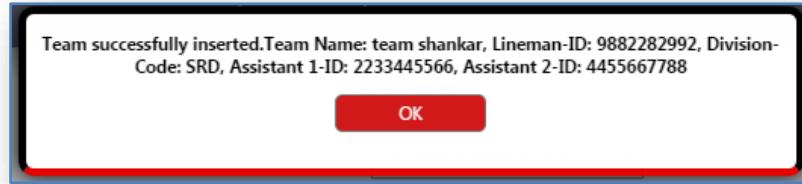


Figure 3.117 Pop Up window displaying successful team Creation.

3.4.7.4 Remove Team

A registered team which is currently inactive can be removed from the system here. All the inactive teams are visible in the **TeamName** dropdown list. On selecting any team, the details of that team is automatically filled in. To delete the team click **Delete** button. A message box will appear with the results of the operation (As shown in Figure 4.9-ix).

The screenshot shows the BSES Intelligent Outage Management System interface. At the top, it displays "BSES Yamuna Power Limited" and "Intelligent Outage Management System". On the right, there's a "TEAM" section showing the time "11 : 28 : 21 [21-Jan. 2015]" and user information "Logged in as 41015505 My Account Logout". The main menu includes links for HOME, CMS, DOMS, EMS, TEAM, REPORTS, and ADMIN. The "TEAM" menu item is highlighted. Below the menu, a "Remove Team" form is displayed. It has fields for "TeamName *", "Division *", "Lineman *", "Assistant1", "Assistant2", and "Assistant3". A dropdown menu under "TeamName *" lists "Team PHG1 (6000000000)" and other options like "PAHAR GANJ", "6000000000", "6000000001", and "6000000002". At the bottom of the form are three buttons: "Status Page", "Delete", and "Reset".

Figure 3.118 Removal of Team from CMS

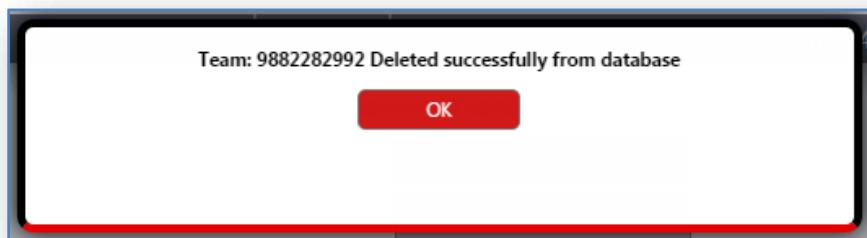


Figure 3.119 Pop Up window displaying successful Team Removal

3.4.8 C.M.S. Reports

To access C.M.S. reports module, select **CMS** from **REPORTS** module. There will be 2 different options visible (As shown in Figure 4.9-x). These options are explained below:

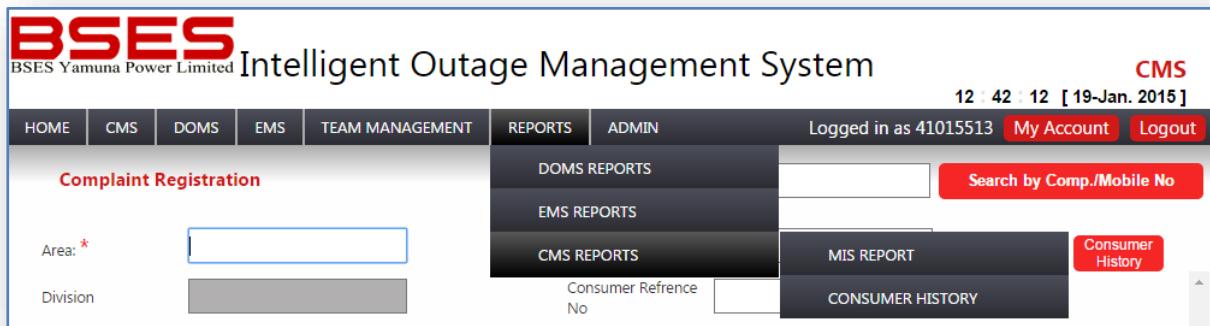


Figure 3.120 Navigation to CMS Reports

3.4.8.1 M.I.S. Report

This report generated the M.I.S. report. To generate it input appropriate values from the input fields, then click **Generate** button. A report will appear below it. To reset the fields click **Reset** button (See Figure 4.9-xi).

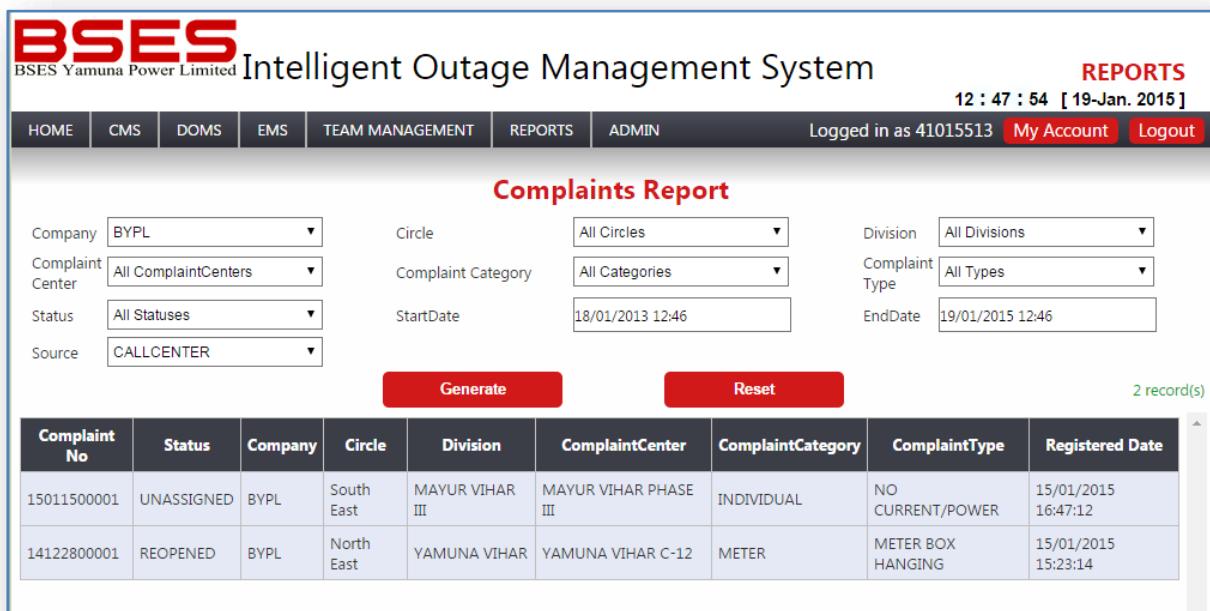


Figure 3.121 CMS - MIS Reports

3.4.8.2 Consumer History

This report generates the entire history of a consumer. Enter **CA** or **CRN** or **Mobile** number of a particular consumer to view his/her history of complaints (See Figure 4.9-xii).

The screenshot shows the BSES Intelligent Outage Management System interface. At the top, there is a navigation bar with links for HOME, CMS, DOMS, EMS, TEAM MANAGEMENT, REPORTS, and ADMIN. The REPORTS link is highlighted in red. To the right of the navigation bar, it says "Logged in as 41015513 | My Account | Logout". The main title "Intelligent Outage Management System" is displayed above the report area. The report title "Consumer History Report" is centered at the top of the form. Below the title, there are several input fields: "CANumber" (102456101), "CRN" (empty), and "PhoneNo" (empty). There are also date fields: "StartDate" (19/01/2014 12:49) and "EndDate" (19/01/2015 12:48:48). Below these fields are two red buttons: "Generate" and "Reset". To the right of the "Generate" button, it says "4 record(s)". The main content area is a table with the following data:

Complaint No	CA Number	CRN	Caller Name	Caller Phone	Consumer Phone	Complaint Category	Complaint Type	Registered Date	Status
1412310004	102456101		Mayank	8010938636	07737652469	METER	METER TOTALLY BURNT	05/01/2015 12:40:00	CLOSED
1412310003	102456101		Naveen	8010938629		METER	METER TOTALLY BURNT	31/12/2014 09:12:00	CLOSED
1412260009	102456101		nnn	08010938625		METER	METER SPARKING	28/12/2014 17:02:00	CLOSED
1501160008	102456101		Naveen	8802670645		METER	METER TOTALLY BURNT	16/01/2015 15:00:00	CLOSED

Figure 3.122 Consumer History Reports