

CMLT+ User Manual

Version 1.0

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Table of Contents

1.00	INTRODUCTION.....	4
2.00	USER ROLES.....	4
3.00	PAGES & FEATURES.....	4
3.01	USER LOGIN.....	4
3.02	PROJECT SELECTION.....	6
3.03	DASHBOARD.....	7
3.04	CAS SHEETS.....	8
a)	Add CAS item.....	10
b)	Edit CAS item.....	10
c)	Delete CAS items.....	12
d)	Upload CAS.....	12
e)	Print CAS.....	12
f)	Filter CAS items.....	13
g)	Sort CAS items.....	14
h)	CAS Summary.....	14
i)	CAS Graph.....	15
j)	CAS Settings.....	16
k)	Test Packs & Test Documentation.....	19
3.05	COMMISSIONING REPORTS.....	20
3.06	COMMISSIONING PLANS.....	24
3.07	DOCUMENT REVIEW.....	27
a)	DR Log.....	27
b)	Create DR.....	28
c)	DR Saved Log.....	28
3.08	METHOD STATEMENTS.....	29
a)	Method Statement Register.....	29
b)	Method Statement Graph (Status and Executive).....	31
c)	Method Statement Log.....	31
d)	Method Statement Comments.....	33
e)	Method Statement View/Review PDF.....	36
3.09	MEETING MINUTES.....	37
3.10	PROGRAMMES.....	39
3.11	SITE OBSERVATION.....	43
3.12	ISSUE LOG.....	47
3.13	T/CIR.....	49

1.00 Introduction

CMLT+ is a web-based application and also a advanced version of existing CML Techniques. Document upload, document listing, commenting and document viewing has been made simpler in CMLT+ to promote user friendly user interface and provide better features than the earlier versions. CMLT+ is heading towards the building responsive features specific to various device screen resolutions of the view port.

This document is intended to introduce CMLT+ features as a step-to-step guide detailing about the usage and purpose of the application.

2.00 User Roles

User roles are defined to have different authorization levels. Below is the list of User Roles in CMLT+:

2.01 Super Admin

Super Admins are the users with the superior authorization level. Users belonging to this category are enabled to manage users, projects, company profiles and view the list of logged in users.

2.02 Admin

Admin user is enabled to create, edit and delete the project related items in CMLT+. All CML employees will be provided Admin permissions by default.

2.03 User

Normal user will be provided basic permissions to view, comment and print features.

2.04 Read Only

Read Only users are the users with limited privileges of only viewing the project related items.

3.00 Pages & Features

CMLT+ is accessible through the URL <https://cms.cmltechniques.com>. This section will walk through every page of CMLT+.

3.01 User Login

Login page include the links to Password Reset page and Account request page as illustrated in the figure below.

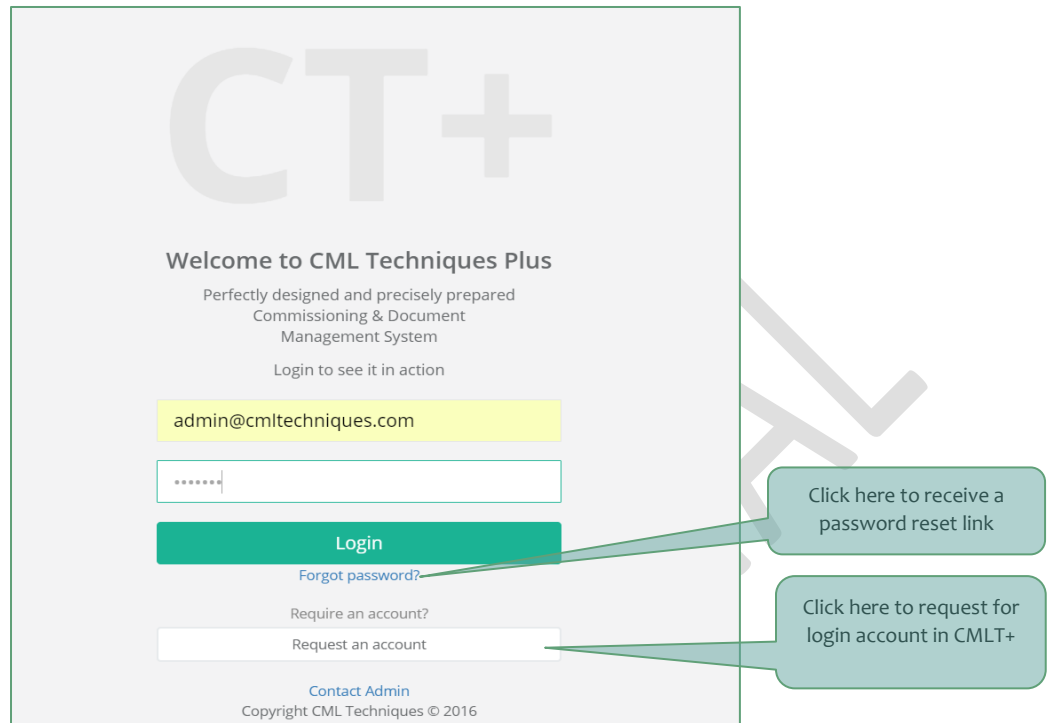


Figure 1: User Login

On clicking 'Forgot Password' link on the login screen, the user will be redirected to the Reset Password page as shown in the figure below. An email will be sent to the specified email address with the password reset link on entering a valid email address and clicking on 'Send Email' button. User is required to click on the password reset link provided in the email to set the new password for CMLT+.

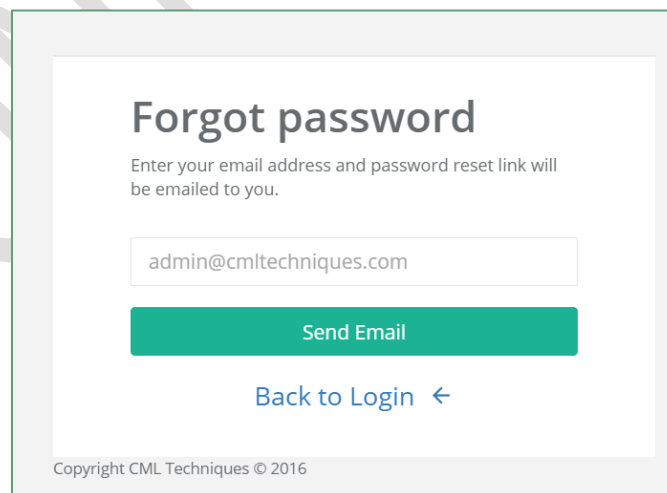
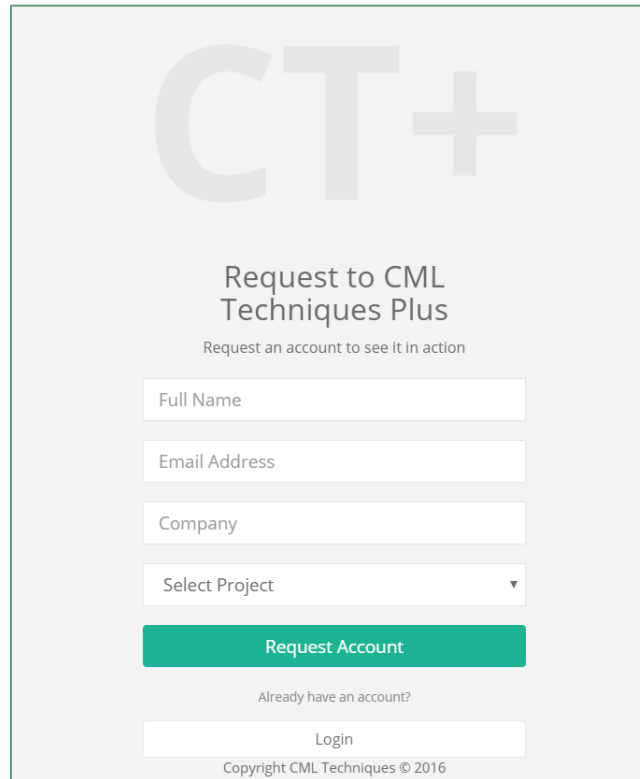


Figure 2: Forgot Password

On clicking 'Request an Account' in the login screen, the user will be navigated to the Account Request page as shown in the figure below. On submitting the details here, a request will be sent to the admin of

CML T+ to create a login account. An email will be sent to the user with the login credentials once the login account is created.



The screenshot shows a web form titled "Request to CML Techniques Plus" with the subtitle "Request an account to see it in action". The form includes the following fields and elements:

- Input field for "Full Name"
- Input field for "Email Address"
- Input field for "Company"
- Dropdown menu for "Select Project"
- A green "Request Account" button
- A link "Already have an account?"
- An input field for "Login"
- Copyright notice: "Copyright CML Techniques © 2016"

Figure 3: Account Request

3.02 Project Selection

On valid login, the first thing user needs to do is select one of the accessible projects and click 'Access' to view the project data. An additional link will be provided only for Super Admin users to view the logged in users in the past. A snapshot of the same as been given below.

Project Selection

Use the dropdown boxes below to enter the project, and system required

Select System

Select Project

User Login Log will be enabled only for Super Admin users

Figure 4: Project Selection

3.03 Dashboard

Project users will be redirected to the project dashboard post login and project selection. Project Dashboard depicts the graphical representation of the project status as shown in the figure below. The kind of graphs displayed will be as per project needs.

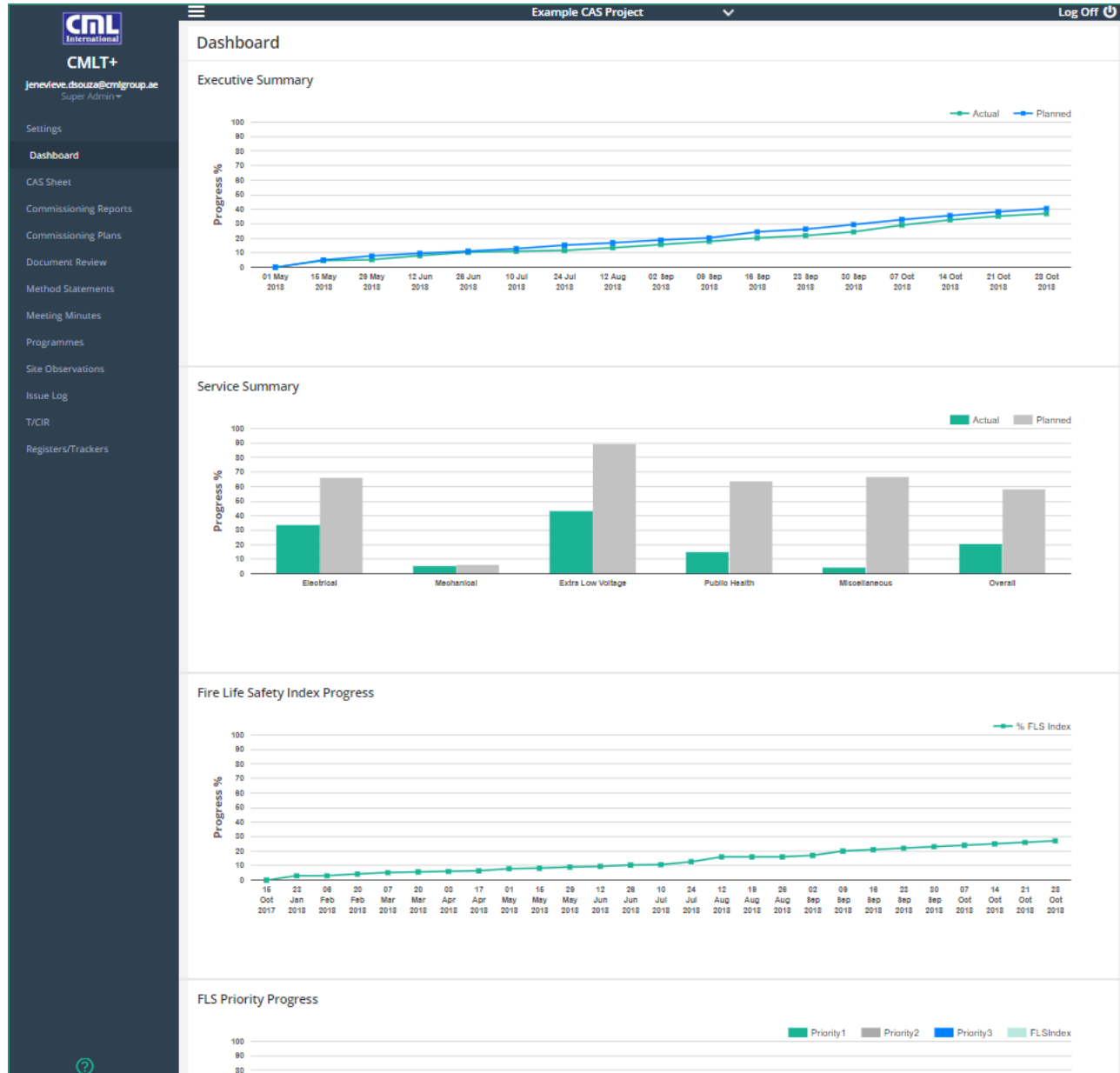


Figure 5: Project Dashboard

The navigation menu on the left-hand side displays the user login name, user role name and a list of authorized navigation menu items. Settings menu will be enabled only for super admins. The question mark icon in the left navigation footer will navigate the user to the query page wherein user can post their queries/enquiries to CMLT+ admin.

The top bar facilitates the user to minimize the navigation bar, switch project and log out.

3.04 CAS Sheets

CAS sheets are accessed using the 'CAS Sheet' link on the left navigation pane. A snapshot of CAS sheet navigation tree is shown in the figure below:

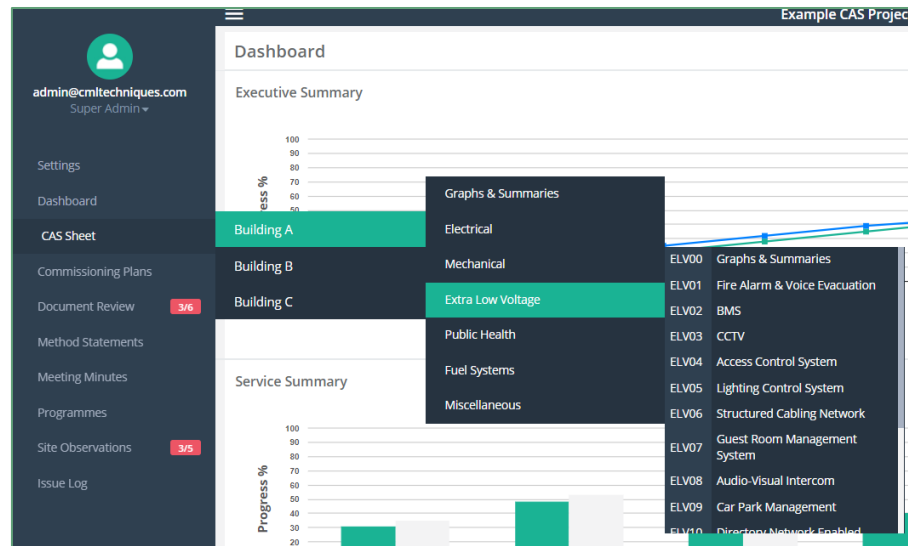


Figure 6: CAS Sheet Navigation

Overall summaries at the desired level can be viewed using the menu selection 'Graphs & Summaries' in the CAS sheet navigation menu. Building/Zone filter is enabled to view the Overall Summary for a specific building/zone. Similarly, overall summaries at service level can be viewed by selecting 'Graphs & Summaries' under corresponding service menu.

Summary of Electrical Services Commissioning and Testing			
System	Quantity	Actual % Complete	Planned % Complete
Earthing/Lightning Protection	357	55.6%	0%
MDB	23	76.2%	100%
ACB	8	77.9%	100%
PFC	18	63.9%	100%
SMDB	152	67.8%	100%
MCC	25	76.1%	100%
ATS	11	44.5%	100%
DB	939	57.1%	100%
UPS	7	75.4%	94.3%
BDT	11	68.2%	100%
Generators	2	30%	100%
ELS/CBS	542	22.5%	100%
Overall	2095	58.9%	94.8%

Summary of Mechanical Services Commissioning and Testing			
System	Quantity	Actual % Complete	Planned % Complete
Primary Chilled Water Pumps	4	100%	100%
Secondary Chilled Water Pumps	8	70%	100%
Tertiary Chilled Water Pumps	13	53.8%	100%
Expansion Tank	11	72.7%	100%
Automatic Chemical Dosing System	6	16.7%	100%
Plate Heat Exchanger	19	0%	100%

Figure 7: CAS Overall Summary

Building based CAS sheets are shown as an example here and will be configured as per project needs. User will be navigated to a CAS sheet main page based on the menu selection. Figure below depicts the Mechanical CAS Main.

CAS Sheets / Mechanical / M1 - Mechanical Commissioning Activity Schedule

CAS Sheet Summary Graph Search Settings Import Print

Item No.	Engineers Reference	Asset Code				Description	Location	Fed Fr
		Building / Zone	Category	Floor Level	Seq. No.			
Primary Chilled Water Pumps								
001	CHWP-PP-B1-01	T2	PCHWP	B1	001	Primary Chilled Water Pump serving to Basement 1 Tower 2_PHEX-HR-B1-01 to 04 & PHEX-LR-B1-01 to 03	ETS Room	MCC-T2-B1-C
002	CHWP-PP-B1-02	T2	PCHWP	B1	002	Primary Chilled Water Pump serving to Basement 1 Tower 2_PHEX-HR-B1-01 to 04 & PHEX-LR-B1-01 to 03	ETS Room	MCC-T2-B1-C
003	CHWP-PP-B1-03	T2	PCHWP	B1	003	Primary Chilled Water Pump serving to Basement 1 Tower 2_PHEX-HR-B1-01 to 04 & PHEX-LR-B1-01 to 03	ETS Room	MCC-T2-B1-C
004	CHWP-PP-B1-04	T2	PCHWP	B1	004	Primary Chilled Water Pump serving to Basement 1 Tower 2_PHEX-HR-B1-01 to 04 & PHEX-LR-B1-01 to 03	ETS Room	MCC-T2-B1-C
FAHU EA								
001	FAHU-G-03 EA	T1	FAHU EA	L1	001			
002	FAHU-L3M-T1-01 EA	T1	FAHU EA	L3M	001			
003	FAHU-T1-16-01 EA	T1	FAHU EA	L16M	001			
004	FAHU-T1-16-02 EA	T1	FAHU EA	L16M	003			
005	FAHU-T1-16M-01 EA	T1	FAHU EA	L16M	002			
006	FAHU-T1-16M-02 EA	T1	FAHU EA	L16M	004			
007	FAHU-T1-44-01 EA	T1	FAHU EA	L44	002			

3,596 records found Show All CAS Items

Figure 8: CAS Main

Following features are available in CAS Main page:

a) Add CAS item

On clicking 'Add' icon from bottom left toolbar, a popup window will be displayed to input the CAS details as shown in the figure below. CAS item will be added on inputting valid CAS data and clicking 'Add' / 'Add & Exit' buttons. 'Add & Exit' and 'Cancel' buttons will close the Add dialog whereas 'Add' button will keep the pop-up open to input next time.

Add Item

Fill out the item details below

Item No.	Engineers Reference	Category	Floor level
<input type="text"/>	<input type="text" value="Ref."/>	<input type="text" value="Category"/>	<input type="text" value="Floor Level"/>
Building	Seq. No.	Description	
<input type="text"/>	<input type="text"/>	<input type="text" value="Description"/>	
Location		Fed From	
<input type="text" value="Location / Room"/>		<input type="text" value="Fed From"/>	
Power On Date	Pre-Comm Planned...	Comm Planned Co...	Attach SO
<input type="text" value="Power On Date"/>	<input type="text" value="Prec-Comm Plann"/>	<input type="text" value="Comm Planned Cc"/>	<input type="text" value="Select SO"/>

Figure 9: Add CAS Item

b) Edit CAS item

Existing CAS items can be edited by selecting a row and using the 'Edit' icon in the bottom left toolbar or edit icon in the corresponding row. Edit icon from bottom toolbar will display a popup to edit only the

basic information of the selected CAS item whereas row edit option will enable the users to input the test data for the selected row as depicted in the figures below.

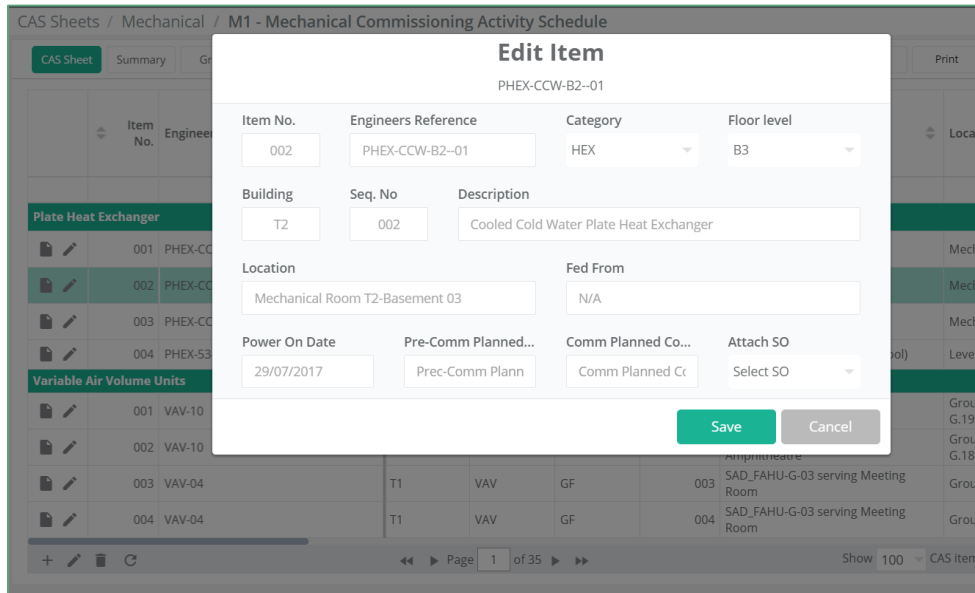


Figure 10: Edit CAS Item

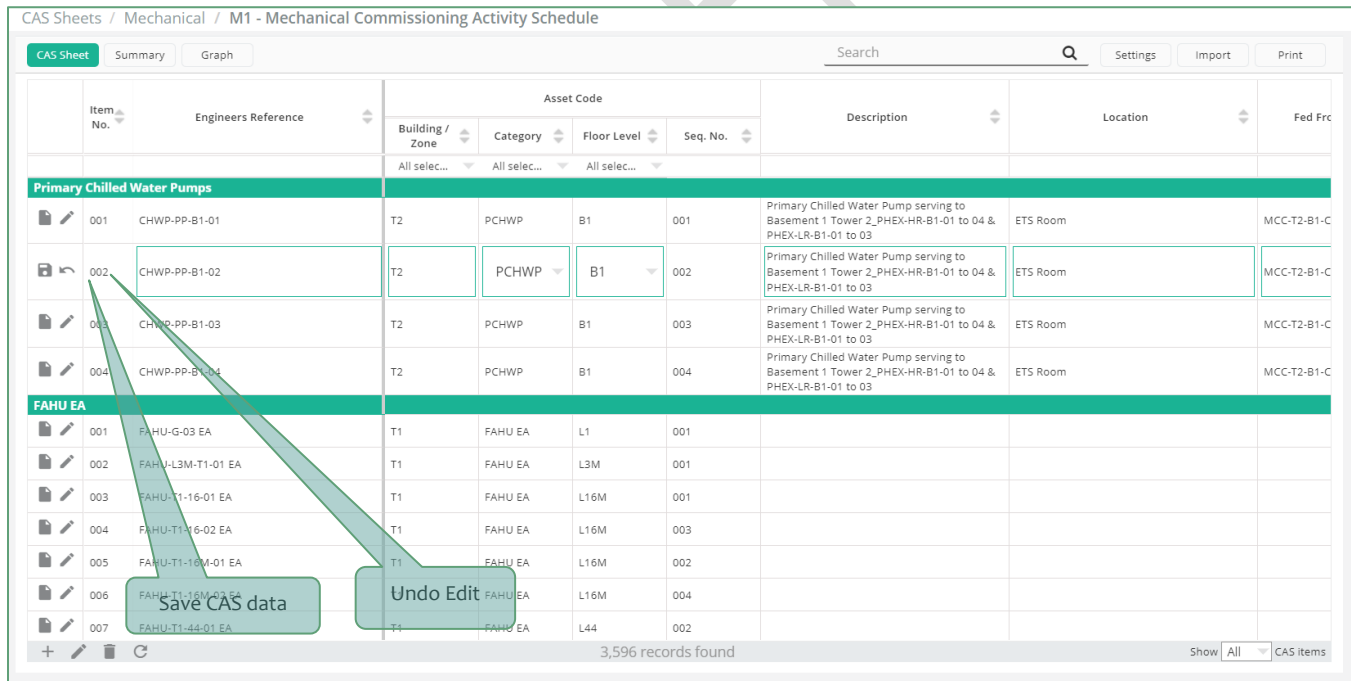


Figure 11: CAS Inline Edit

c) Delete CAS items

User is enabled to delete multiple CAS items using the delete icon at the bottom left toolbar. Clicking once on the row will select the row for deletion. On clicking delete icon and confirming, the selected row(s) will be deleted.

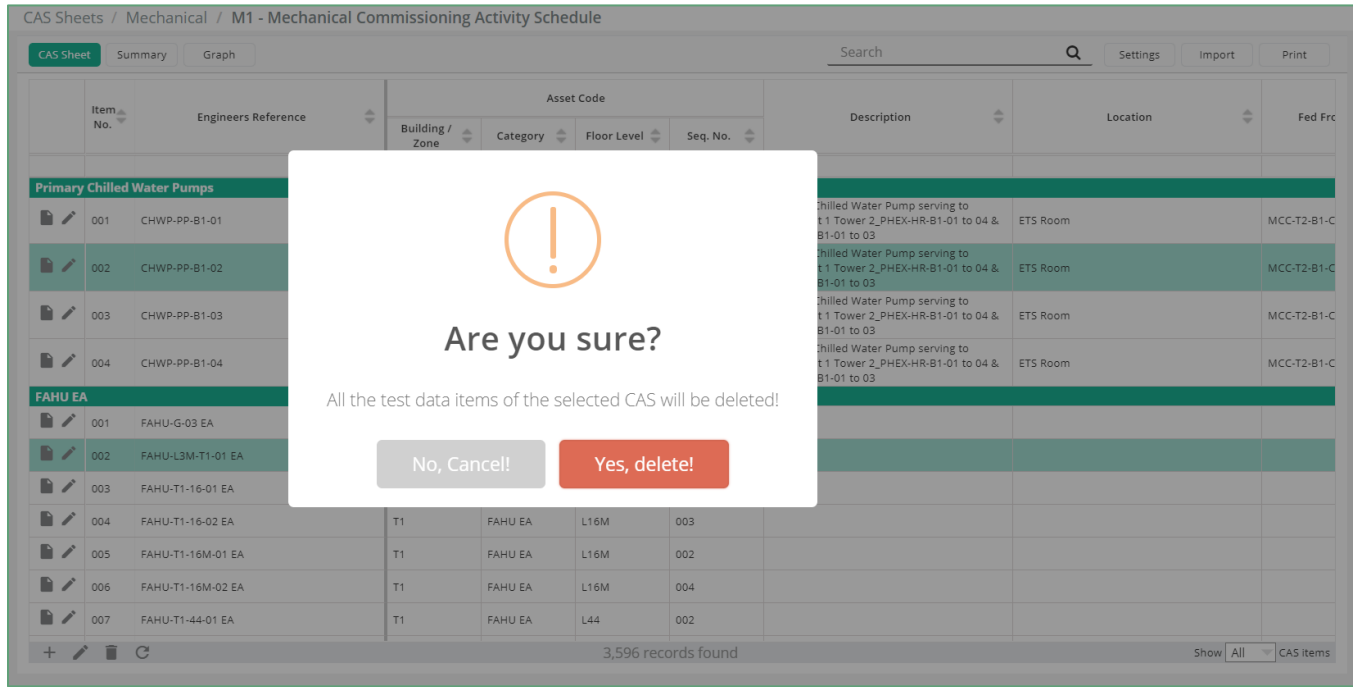


Figure 12: Delete CAS Item

d) Upload CAS

CMLT+ enables users to perform a bulk upload of CAS items in excel format. Select the excel option at top right corner and click on 'Import' option. Upload popup will be displayed as shown in the figure below.

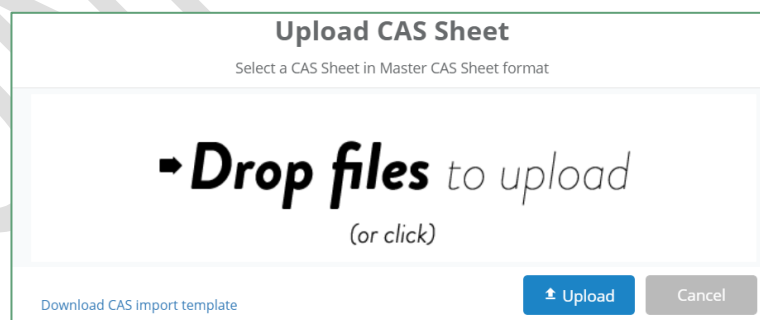


Figure 13: Upload CAS

The upload file format is downloadable from the link provided in the popup window. The upload file format must exactly match the downloaded version of excel. On clicking 'Upload' button, the CAS items from the excel file will be imported to CMLT+. User will be able to view the uploaded CAS items instantly.

e) Print CAS

Clicking 'Print' on the top right corner will show the print preview of the selected CAS Sheet.

f) Filter CAS items

CMLT+ provides a search box at top right corner to search text across all columns of the CAS Sheet. Also, column search with multiple selection is also provided to filter the records based on selected column data.

The screenshot shows the 'CAS Sheets / Mechanical / M1 - Mechanical Commissioning Activity Schedule' interface. A search bar at the top right contains the text 'Low rise heat'. The table below displays a list of 'Plate Heat Exchanger' items. A callout box labeled 'Search text input' points to the search bar.

Item No.	Engineers Reference	Asset Code				Description	Location	Fed Frc
		Building / Zone	Category	Floor Level	Seq. No.			
Plate Heat Exchanger								
001	PHEX-LR-B1-01	T2	PHEX	B1	001	Primary Low Rise Heat Exchanger serving Tower 2 Basement 03 to Level 16M: Tower 1 Basement 03 to Level 03M.	ETS Room	Chilled Water Pump
002	PHEX-LR-B1-02	T2	PHEX	B1	002	Primary Low Rise Heat Exchanger serving Tower 2 Basement 03 to Level 16M: Tower 1 Basement 03 to Level 03M.	ETS Room	Chilled Water Pump
007	CHWPHE-T1-16M-01	T1	PHEX	L16M	001	Secondary Low Rise Heat Exchanger serving Tower 1 Level 04 to Level 44.	Level 16M, Mechanical Plant Room	Chilled Water Pump - Prim: Rise
008	CHWPHE-T1-16M-02	T1	PHEX	L16M	002	Secondary Low Rise Heat Exchanger serving Tower 1 Level 04 to Level 44.	Level 16M, Mechanical Plant Room	Chilled Water Pump - Prim: Rise
009	CHWPHE-T1-16M-03	T1	PHEX	L16M	003	Secondary Low Rise Heat Exchanger serving Tower 1 Level 04 to Level 44.	Level 16M, Mechanical Plant Room	Chilled Water Pump - Prim: Rise

5 records found

Figure 14: Search CAS

The screenshot shows the same 'CAS Sheets / Mechanical / M1 - Mechanical Commissioning Activity Schedule' interface. The search bar is empty. The 'Category' column of the 'DX Units' table is selected, and a dropdown menu is open, showing 'DX' as the selected option. The table displays 6 records.

Item No.	Engineers Reference	Asset Code				Description	Location	Fed Frc
		Building / Zone	Category	Floor Level	Seq. No.			
DX Units								
001	IU-B01-01	Podium	ADU		001	DU Room	DU Room Basement 01	DB-T1-B1-P1
002	IU-B01-02	Podium	CCU		002	DU Room	DU Room Basement 01	DB-T1-B1-P1
003	IU-B01-03	Podium	CMUF		003	Etisalat Room	Etisalat Room, Basement 01	DB-T1-B1-P1
004	IU-B01-04	Podium	CPEF		004	Etisalat Room	Etisalat Room, Basement 01	DB-T1-B1-P1
005	IU-G-01	Podium	CPSF		001	Refuse Room	Refuse Room, Ground Floor	DB-T2-G-BK1
006	IU-G-02	Podium	CSEF		002	AV Room	AV Room, Ground Floor	DB-T2-G-BK1

6 records found

Figure 15: Column Search

g) Sort CAS items

Sort icons are provided in each of the column headers. On clicking sort icon, the corresponding column will be sorted in the ascending or descending order alternatively.

CAS Sheets / Mechanical / M1 - Mechanical Commissioning Activity Schedule

CAS Sheet Summary Graph Search Settings Import Print

Item No.	Engineers Reference	Asset Code				Description	Location	Fed Frc
		Building / Zone	Category	Floor Level	Seq. No.			
DX Units		All selec...	DX	All selec...				
006	IU-G-02	Podium	DX	GF	002	AV Room	AV Room, Ground Floor	DB-T2-G-BK1
001	IU-B01-01	Podium	DX	B1	001	DU Room	DU Room Basement 01	DB-T1-B1-P1
002	IU-B01-02	Podium	DX	B1	002	DU Room	DU Room Basement 01	DB-T1-B1-P1
003	IU-B01-03	Podium	DX	B1	003	Etisalat Room	Etisalat Room, Basement 01	DB-T1-B1-P1
004	IU-B01-04	Podium	DX	B1	004	Etisalat Room	Etisalat Room, Basement 01	DB-T1-B1-P1
005	IU-G-01	Podium	DX	GF	001	Refuse Room	Refuse Room, Ground Floor	DB-T2-G-BK1

6 records found Show All CAS items

Sort Icon Ascending sort icon indicating sorted column

Figure 16: Data Sorting

h) CAS Summary

Summary button in the CAS main page will navigate the user to the CAS summary page. CAS Summary display the progress of the selected CAS sheet based on the filter criteria. By default, the CAS summary shows the progress of the CAS sheet at category level or test based level depending on the project needs.

CAS Sheets / Mechanical / M1 - Mechanical Summary

CAS Sheet: **Summary** Graph Planned Date Ref: 14/11/2018 Filters Settings Print

Category	Quantity	Actual Progress				Planned Progress		
		Total Pre-Comm	Total Comm	Total Witnessed	% Complete	Planned Pre-Comm	Planned Comm	Planned % Complete
Primary Chilled Water Pumps	4	4	0	0	20%	4	4	100%
Secondary Chilled Water Pumps	8	8	0	0	20%	8	8	100%
Tertiary Chilled Water Pumps	13	7	7	7	53.8%	13	13	100%
Expansion Tank	11	8	8	8	72.7%	11	11	100%
Automatic Chemical Dosing System	6	0	0	0	0%	6	6	100%
Plate Heat Exchanger	19	0	0	0	0%	19	19	100%
Chilled Water Side Stream Filtration Unit	6	0	0	0	0%	6	6	100%
Fresh Air Handling Unit	23	11	4	6	24.1%	66	66	100%
Recirculating Air Handling Unit	25	8	2	2	12.8%	25	23	93.6%
Closed Control Units	6	2	0	0	5%	6	6	100%
Dishwash Extract Fan	30	2	0	0	1.3%	30	30	100%
Car Park Supply Fans	12	3	0	0	5%	12	12	100%
Car Park Extract Fans	15	0	0	0	0%	15	15	100%
Fan Coil Units	3128	1437	1437	1437	45.9%	3128	3128	100%
Staircase Pressurisation Fans	38	14	4	0	12.6%	38	38	100%
Fireman's Lift Lobby Pressurisation Fans	12	8	0	0	13.3%	12	12	100%
Lift Pressurisation Fans	2	2	0	0	20%	2	2	100%
Smoke Extract Fans	18	8	0	0	8.9%	18	18	100%
Corridor Make-Up Air Fans	10	0	0	0	0%	10	10	100%
CorridorSmoke Extract Fans	10	4	0	0	8%	10	8	84%
Trash Room Extract Fans	6	1	1	0	14.2%	6	6	100%
Toilet Extract Fans	6	0	0	0	0%	6	6	100%
DX Units	6	2	0	0	6.7%	6	6	100%
Variable Air Volume Units	115	0	0	0	0%	115	115	100%
Ecology Units	8	0	0	0	0%	8	8	100%
Electro Static Precipitator	16	0	0	0	0%	16	16	100%
Overall	3553	1529	1463	1460	21.3%	3596	3592	98.9%

Figure 17: CAS Summary

CAS summary view could be customized and filtered using the Filters option at the top right corner of the page. On clicking 'Filters' button, a popup window is displayed as shown in the figure below. Selecting the required option and clicking on Filter will filter the summary as per the selected criteria. On clicking the Reset button, the selected filter criteria will be cleared, and summary view will be reset to default. Cancel option will close the modal popup window without doing anything.

✕

CAS Summary Filter

Category All selected (28) ▼

Building All selected (3) ▼

Floor Level All selected (67) ▼

Data Shown Per Equipment ▼

Filter
Reset
Cancel

Figure 18: CAS Summary Filters

i) CAS Graph

Graphical representation of the CAS sheet progress is available by selecting 'Graph' button in CAS main page or Summary page. CAS graph displays the progress in terms of categories or tests based on the

project needs. Filters are available to view the progress for desired category building, floor or planned reference. 'Reset Filters' button will clear the filters and return the graph view to the default one.

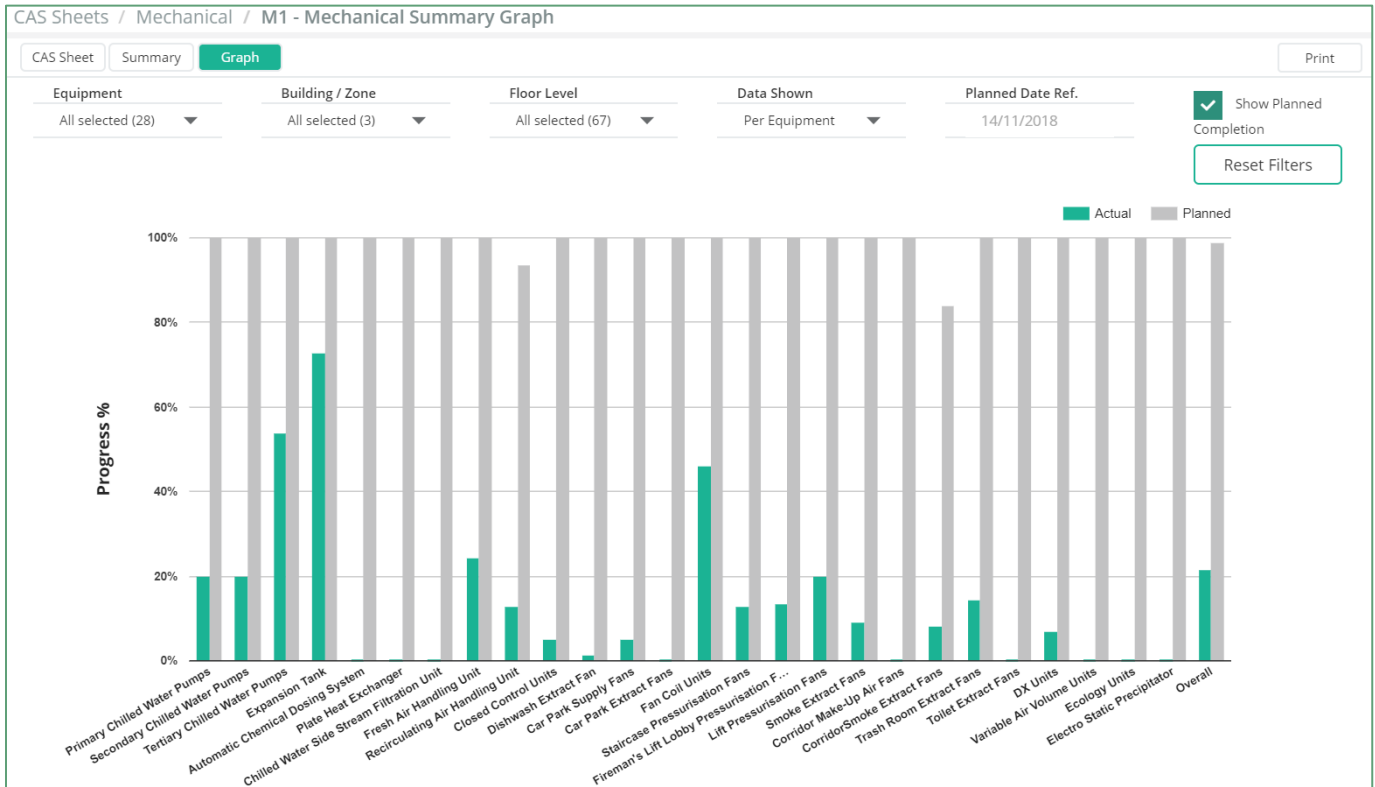


Figure 19: CAS Progress Chart

j) CAS Settings

CAS Settings section will enable the users to update the configurable items related to their respective project CAS sheets and is available only for admin users.

Below is a list of configurable items available in CAS Sheet Settings page:

- ❖ **Floors:** On landing to Settings page, the Floors configuration page will be displayed as shown in the figure below. User will be enabled to add new floor levels and update existing ones.

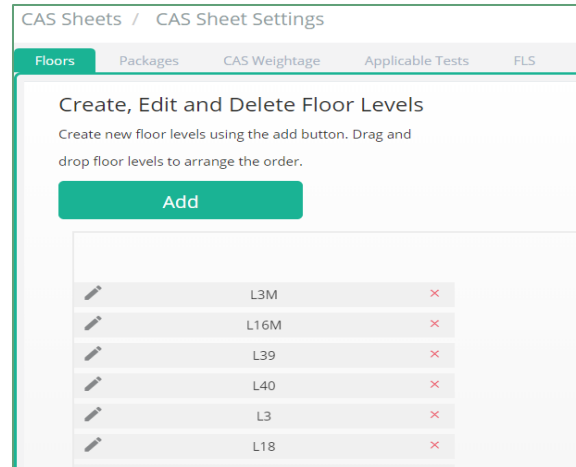


Figure 20: Floor Settings

- ❖ **Packages:** Packages tab enables the user to add and edit the CAS packages for each of the CAS sheets. User needs to manually update the packages if CAS sheet items are created manually else the packages will be added automatically during CAS excel upload. Below is the snapshot of the Settings page for adding/updating the CAS Sheet Packages.

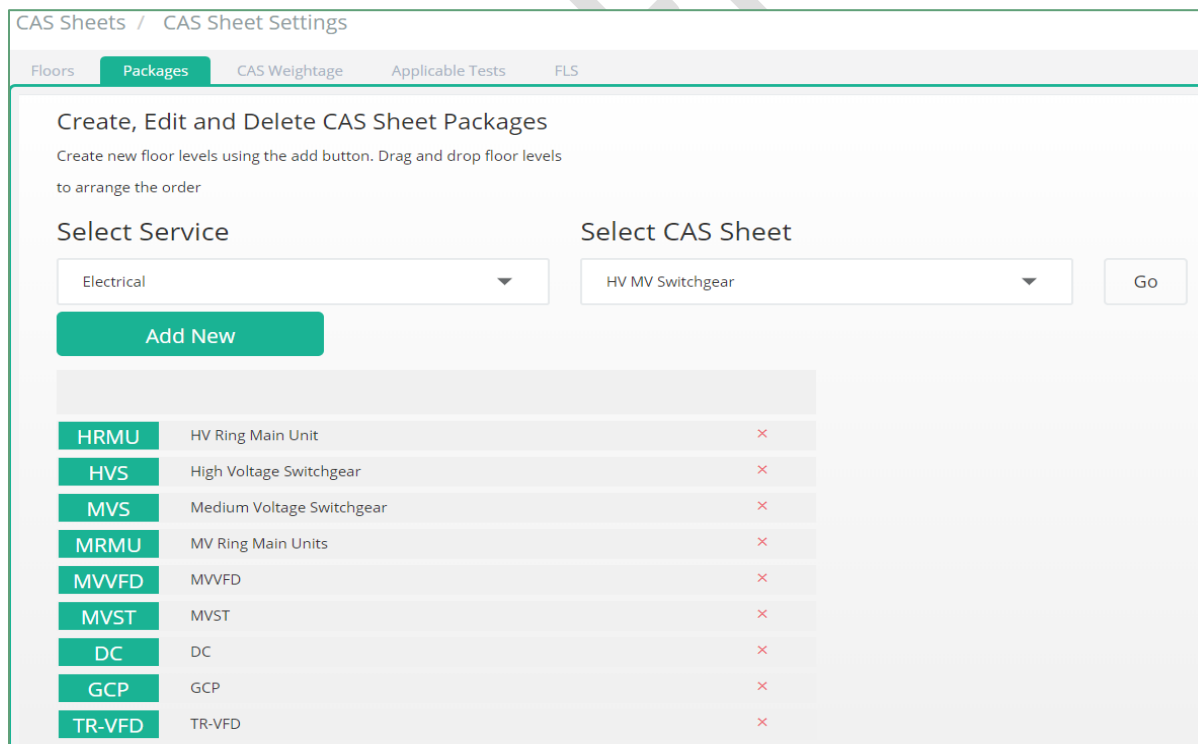


Figure 21: Category Settings

- ❖ **CAS Weightage:** CAS weightage can be defined at category level using the CAS Weightage tab in CAS Settings page. User needs to select a specific service and CAS sheet to view the categories of the

desired CAS sheet. Edit icon on screen will enable the user to edit and save the category weightage as per project needs.

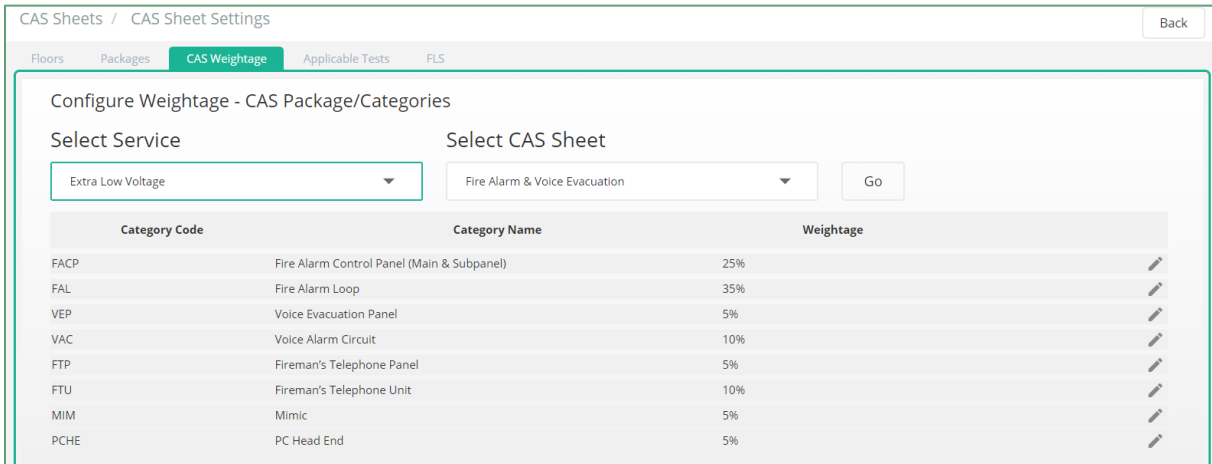


Figure 22: Category Weightage Settings

- ❖ **Fire Life Safety:** FLS categories can be configured using the FLS tab in CAS Settings page. FLS categories are categorized into Priority1, Priority2 and Priority3 as per the project needs. It might not be required for all the projects to have FLS configuration as the need to have it in the project may vary based on client requirements.

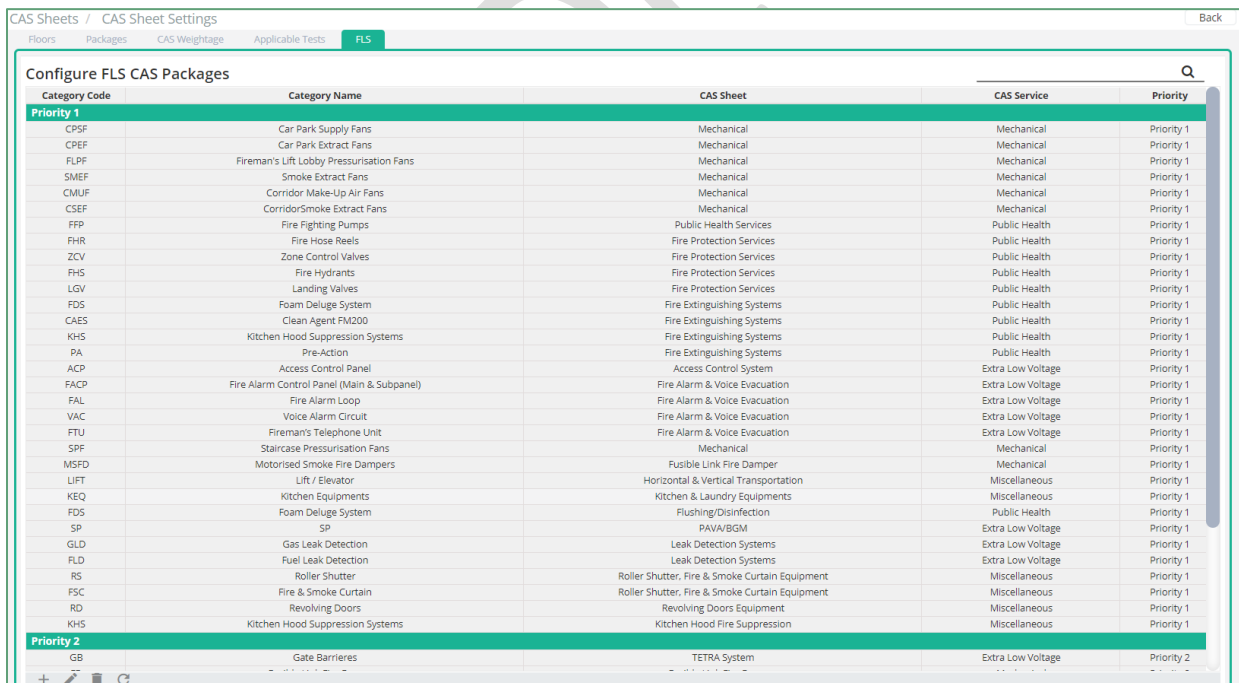


Figure 23: FLS Settings

Categories need to be pre-configured for them to appear for selection here. Selecting the add icon in the bottom left toolbar will open a add window to select the project category as shown in the figure below.

Once a category is added to the FLS list, the progress of that CAS will be added up to generate the FLS index for that project.

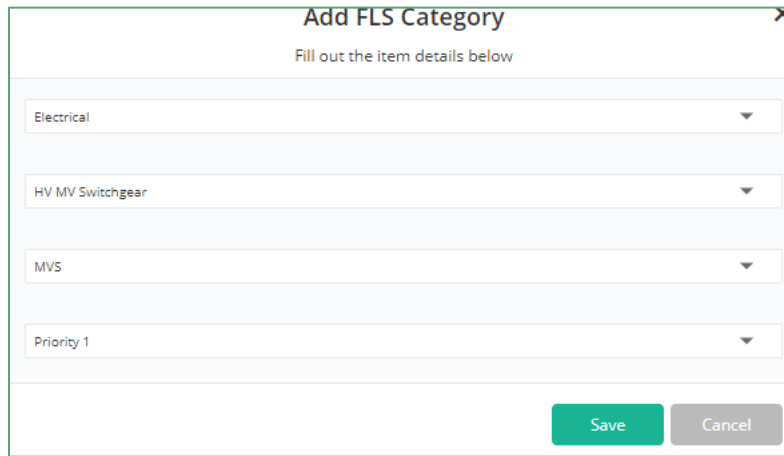


Figure 24: Configure FLS Category

k) Test Packs & Test Documentation

Test Documentation icon is displayed for every CAS item in the first column of the CAS main listing page. On clicking the document icon, user will be navigated to the test document view page. Test documents uploaded for the selected CAS item are listed in the left-hand side. New test document can be uploaded by clicking on the 'Upload Test Document' button. Uploaded documents are available for review and displayed on the screen as shown in the figure below. Desired document can be reviewed by clicking on the file name in the file list on the right-hand side

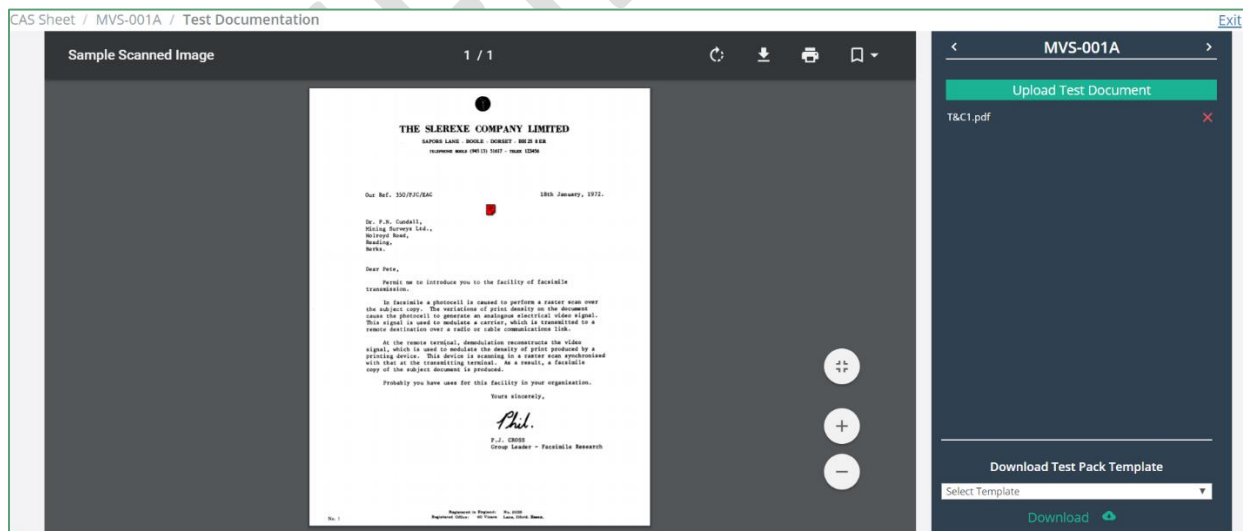


Figure 25: Test Packs

CML test document templates are made available for download at the bottom right of the page. Test pack templates vary from project to project and can be used as per the project agreements. Once the test documents are completed or partially completed, a scanned copy must be uploaded here.

3.05 Commissioning Reports

Select Commissioning Reports in the file tree on the left-hand side to navigate to the Commissioning Report log. Commissioning Reports in CMLT+ is developed to upload, review, comment and view the commissioning reports. A snap shot of the Commissioning Report log is shown in the figure below:

Commissioning Reports / Fortnightly / Commissioning Report Log

Register Upload Comments Search Q Settings Print

Item No.	Document Name	Upload Date	Issue Date	Revision	Status	Total Comments	Outstanding Comments
All	All	All	All	All	All	All	All
Latest Revision							
001	Commissioning Weekly Status Report 13.10.18	14/10/2018	14/10/2018	65	Review	3	3
Previous Revisions							
002	Commissioning Weekly Status Report 06.10.18	07/10/2018	07/10/2018	64	Revised	0	0
003	Commissioning Weekly Status Report date 18-9-29	30/09/2018	30/09/2018	63	Revised	0	0
004	Commissioning Weekly Status Report 22.09.18	22/09/2018	22/09/2018	62	Revised	0	0
005	Commissioning Weekly Status Report date 18-9-15	15/09/2018	15/09/2018	61	Revised	0	0
006	Commissioning Weekly Status Report 09.09.18	09/09/2018	09/09/2018	60	Revised	0	0
007	Commissioning Weekly Status Report 01.09.18	02/09/2018	02/09/2018	59	Revised	0	0
008	Commissioning Weekly Status Report 26.08.18	26/08/2018	26/08/2018	58	Revised	0	0
009	Commissioning Weekly Status Report 18.08.18	19/08/2018	19/08/2018	57	Revised	0	0
010	Commissioning Weekly Status Report 10.08.18	12/08/2018	12/08/2018	56	Revised	0	0
011	Commissioning Weekly Status Report 03-8-18	05/08/2018	05/08/2018	55	Revised	0	0
012	Commissioning Weekly Status Report 27.01.18	29/07/2018	29/07/2018	54	Revised	0	0
013	Commissioning Weekly Status Report date 18-7-7	09/07/2018	09/07/2018	53	Revised	0	0
014	Commissioning Weekly Status Report 23.06.18	26/06/2018	26/06/2018	52	Revised	0	0
015	Commissioning Weekly Status Report 19.06.18	21/06/2018	21/06/2018	51	Revised	0	0
016	Commissioning Weekly Status Report 09.06.18	11/06/2018	11/06/2018	50	Revised	0	0
017	Commissioning Weekly Status Report 27.05.18	27/05/2018	27/05/2018	49	Revised	0	0
018	Commissioning Weekly Status Report 20.05.18	21/05/2018	21/05/2018	48	Revised	0	0
019	Commissioning Weekly Status Report 13.05.18	13/05/2018	13/05/2018	47	Revised	0	0

Show All items

Figure 26: Commissioning Report Log

Commissioning Report Log is featured with:

- ❖ **Upload:** Upload window is displayed on clicking Upload button on the top left toolbar.

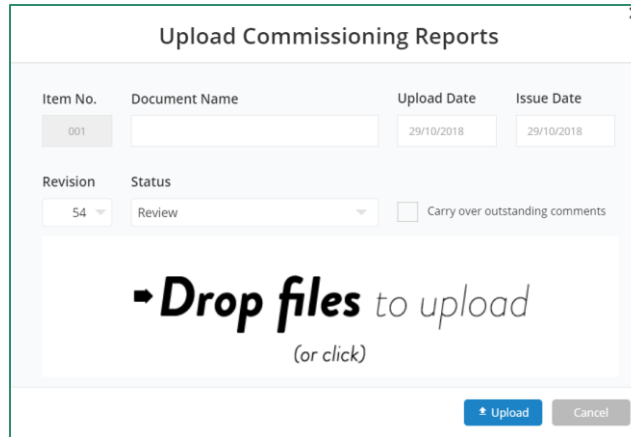


Figure 27: Upload Commissioning Report

- ❖ **Edit:** Edit window is displayed on selecting a row and clicking on Edit icon on the bottom left toolbar.
- ❖ **Delete:** One or more commissioning report(s) can be deleted on clicking the corresponding rows and selecting delete icon on bottom left toolbar.
- ❖ **Print:** Print preview of the Commissioning Report Log is available on clicking Print button in the top right toolbar.
- ❖ **View:** Commissioning Report can be viewed in the browser by clicking on the document name link (2nd column) in the Commissioning Report Log. Commissioning Report review mode enables user to review the report and add/edit the comments for a specific page or section instantaneously. Comments created will be stored as drafts until user selects Issue Comments. Draft comments and Issued comments are available for viewing in 2 separate windows.

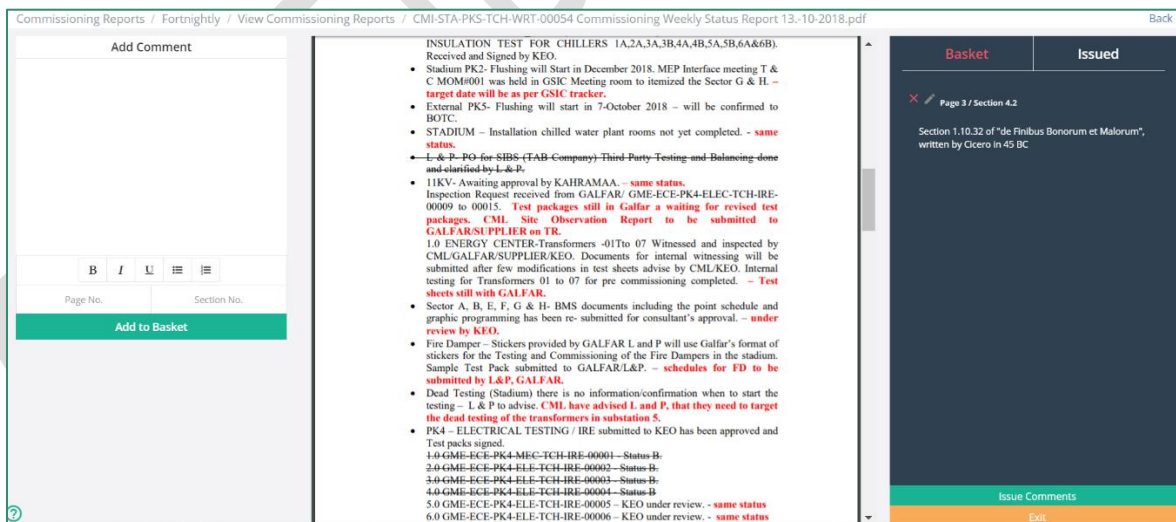


Figure 28: Commissioning Report Review

- ❖ **Comments:** Comments related to the Commissioning Reports can be created/viewed using the Comments button at top left toolbar. Comments Log page displays a list of comments for all the Commissioning Reports. Additional features on Comments Log page are highlighted in the figure below:

Commissioning Reports / Fortnightly / Comments Log

Register **New Comment** Search Filters Settings

Add Comment	Jenevieve Catherine Dsouza Page 1 - Section 1 Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod t empor incididunt ut labore et dolore magna aliqua. Ut enim ad minim ven iam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commo do consequat. Duis aute irure dolor in reprehenderit in voluptate velit ess e cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laboru m.	R - 65	29/10/2018
	Jenevieve Catherine Dsouza Page 1 - Section 1 Section 1.10.33 of "de Finibus Bonorum et Malorum", written by Cicero in 45 BC	R - 65	29/10/2018
Status Chang	Jenevieve Catherine Dsouza Page 3 - Section 4.2 Section 1.10.32 of "de Finibus Bonorum et Malorum", written by Cicero in 45 BC	R - 65	29/10/2018
Unsaved Comment	Jose Joseph Page 3 - Section 4.3 "At vero eos et accusamus et iusto odio dignissimos ducimus, qui blanditi s praesentium voluptatum deleniti atque corrupti, quos dolores et quas m olestias excepturi sint, obcaecati cupiditate non provident, similique sunt i n culpa, qui officia deserunt mollitia animi, id est laborum et dolorum fug a. Et harum quidem rerum facilis est et expedita distinctio. Nam libero te mpore, cum soluta nobis est eligendi optio, cumque nihil impedit, quo mi nus id, quod maxime placeat, facere possimus, omnis voluptas assumenda a est, omnis dolor repellendus. Temporibus autem quibusdam et aut offe	R - 65	29/10/2018

Found 4 comment(s) Show All items

Save Response, Edit Comment, Delete Comment, Refresh

Figure 29: Commissioning Report Comments

- ❖ **New Comment:** Enables user to input and save new comment.

New Comment

Commissioning Weekly Status Report 13.10.18

<p>Comment</p> <div style="border: 1px solid #ccc; height: 100px; width: 95%;"></div> <p style="text-align: right;"> B I U ✎ </p>	<p>Page No.</p> <input style="width: 80%;" type="text"/> <p>Section No.</p> <input style="width: 80%;" type="text"/> <p style="text-align: center; background-color: #00a651; color: white; padding: 5px;">Add</p>	<p>✖ Page 3 / Section 4.2 Section 1.10.32 of "de Finibus Bonorum et Malorum", written by Cicero in 45 BC</p>
--	--	--

Save
Cancel

Figure 30: Commissioning Report - Add New Comment

- ❖ **Edit Comment:** Bottom left edit icon enables user to edit only those comments which are recorded by logged in user.



Figure 31: Commissioning Report - Edit Comment

- ❖ **Delete Comment:** Comment delete icon in the bottom left toolbar will delete the selected comment.

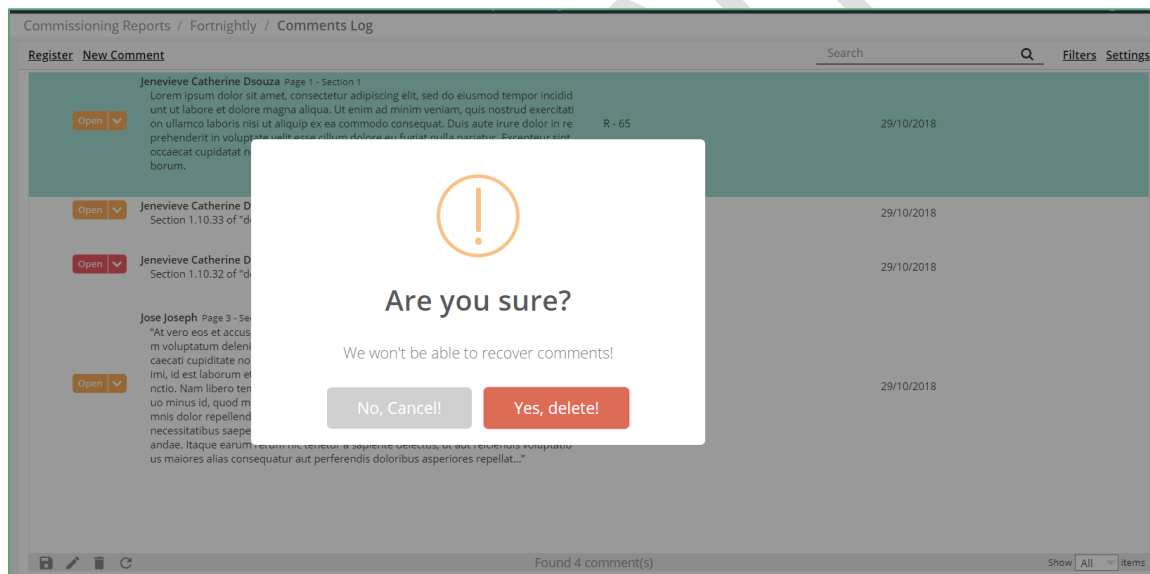


Figure 32: Commissioning Reports - Delete Comment

- ❖ **Respond:** Inline Respond icon enables user to input response to the selected comment. In the figure below, the text highlighted in red font is the response text. User needs to click on 'Save' icon in the bottom left toolbar to save the response.



Figure 33: Commissioning Reports - Response to Comment

- ❖ **Status Change:** Comment status can be toggled Open/Close using the buttons provided inline. User will not be allowed to change the status of the comments in draft status i.e. comments which are not issued yet.

3.06 Commissioning Plans

On clicking Commissioning Plans in the file tree, user will be redirected to the Commissioning Plan Log showing a list of commissioning plans with different revisions as shown in the figure below:




Commissioning Plans / Commissioning Plan Log									
Register		Upload	Comments	Search <input type="text"/>			Settings	Print	
Item No.	Document Name	Upload Date	Issue Date	Revision	Status	Total Comments	Outstanding Comments	Document Review	
All	All	All	All	All	All	All	All	All	
Latest Revision									
001	Commissioning Plan rev 00	07/11/2017	07/11/2017	01	Review	2	1	-	
Previous Revisions									
002	Commissioning Plan Draft Copy	18/10/2017	18/10/2017	00	Revised	0	0	DR-0381	
  								Show <input type="text" value="All"/> items	

Figure 34: Commissioning Plan Log

Commissioning Plan Log is featured with:

- ❖ **Upload:** Upload window is displayed on clicking Upload button on the top left toolbar.
- ❖ **Edit:** Edit window is displayed on selecting a row and clicking on Edit icon on the bottom left toolbar.
- ❖ **Delete:** One or more commissioning plans(s) can be deleted on clicking the desired rows and selecting delete icon on bottom left toolbar.
- ❖ **Print:** Print preview of the Commissioning Plan Log is available on clicking Print button in the top right toolbar.

- ❖ **View:** Commissioning Plan can be viewed in the browser by clicking on the document name link (2nd column) in the Commissioning Plan Log. Commissioning Plan review mode enables user to review the document and add/edit the comments for a specific page or section instantaneously. Comments created will be stored as drafts until user selects Issue Comments. Draft comments and Issued comments are available for viewing in 2 separate windows as shown in the figure below.



Figure 35: Commissioning Plan - Review

- ❖ **Comments:** Comments related to the Commissioning Plans can be created/viewed using the Comments button at top left toolbar. Comments Log page displays a list of comments for all the Commissioning Plans. Additional features on Comments Log page are highlighted in the figure below.

Commissioning Plans / Comments Log

Register **New Comment** Unsaved! Search Q [Filters](#) [Settings](#)

Closed ▼	<p>Jenevieve Catherine Dsouza Page 2 - Section 3.1</p> <p><i>Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur?</i></p>	R - 01	31/10/2018	13d
Open ▼	<p>Jenevieve Catherine Dsouza Page 1 - Section 2.1</p> <p>Curabitur ullamcorper ultricies nisi. Nam eget dui. Etiam rhoncus.</p>	R - 01	31/10/2018	13d

Found 2 comment(s) Show All items

Figure 36: Commissioning Plan Comments

- New Comment:** Clicking on 'New Comment' in the Comments page enables user to input and save new comments.

New Comment ✕

Commissioning Plan rev 00

<p>Comment</p> <div style="border: 1px solid #ccc; padding: 5px; min-height: 40px;"> <p><u>Curabitur ullamcorper ultricies nisi.</u></p> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> <p>B I U </p> </div>	<p>Page No.</p> <div style="border: 1px solid #ccc; padding: 5px; text-align: center;">1</div> <p>Section No.</p> <div style="border: 1px solid #ccc; padding: 5px; text-align: center;">2.1</div> <div style="text-align: center; margin-top: 5px;"> Add </div>	<p>✕ Page 2 / Section 3.1</p> <p><i>Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum ex</i></p>
<div style="display: flex; justify-content: flex-end; gap: 10px;"> Save Cancel </div>		

Figure 37: Commissioning Plan - Add New Comment

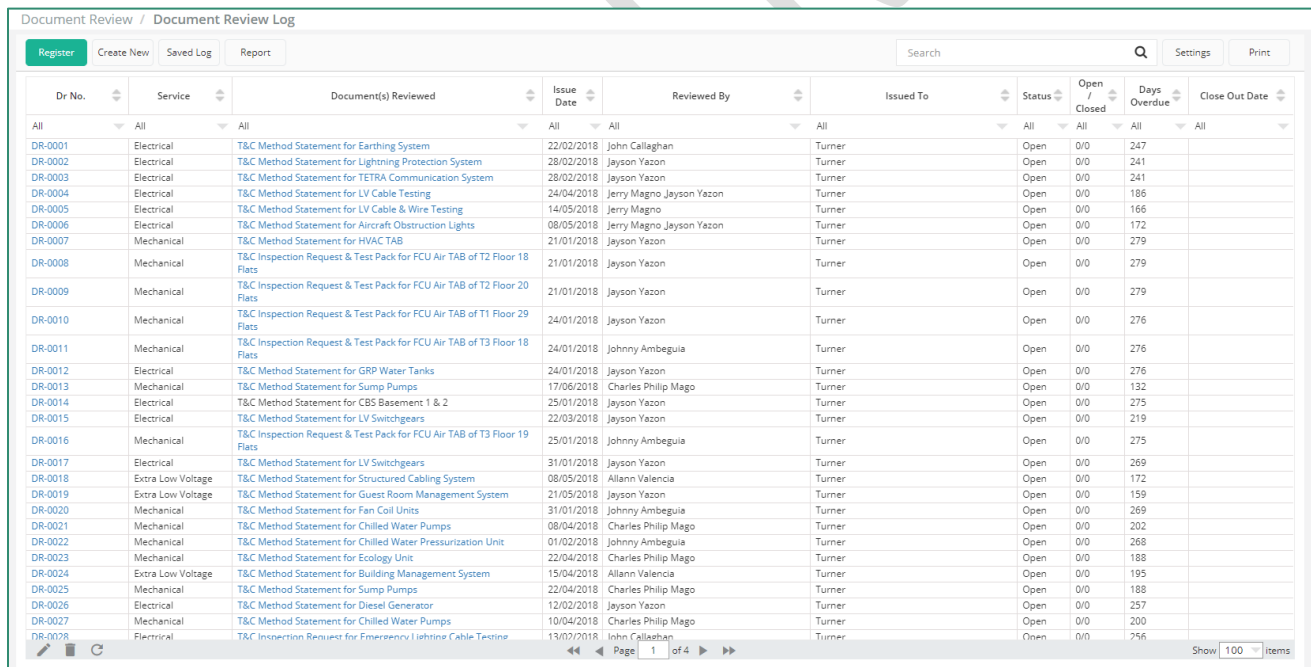
- ✚ **Edit Comment:** Bottom left edit icon enables user to edit only those comments which are recorded by logged in user.
- ✚ **Delete Comment:** Comment delete icon in the bottom left toolbar will delete the selected comment.
- ✚ **Respond:** Inline Respond icon enables user to input response to the selected comment.
- ✚ **Comment Status Change:** Comment status can be toggled Open/Close using the buttons provided in respective rows inline.

3.07 Document Review

a) DR Log

DR Log is the listing page showing all the Document Reviews till date for a project. For the convenience of the users, CMLT+ has provided both PDF upload and manual data entry features to create a document review in the system.

Document Review Log for DR Data Entry lists all the Document Reviews created in the system including PDF uploads. Clicking on DR number will redirect the user to the edit page. Document links are enabled for the records associated with PDF uploads. Clicking Document link (3rd column from left) will redirect the user to view document page.



Dr No.	Service	Document(s) Reviewed	Issue Date	Reviewed By	Issued To	Status	Open / Closed	Days Overdue	Close Out Date
All	All	All	All	All	All	All	All	All	All
DR-0001	Electrical	T&C Method Statement for Earthing System	22/02/2018	John Callaghan	Turner	Open	0/0	247	
DR-0002	Electrical	T&C Method Statement for Lightning Protection System	28/02/2018	Jayson Yazon	Turner	Open	0/0	241	
DR-0003	Electrical	T&C Method Statement for TETRA Communication System	28/02/2018	Jayson Yazon	Turner	Open	0/0	241	
DR-0004	Electrical	T&C Method Statement for LV Cable Testing	24/04/2018	Jerry Magno Jayson Yazon	Turner	Open	0/0	186	
DR-0005	Electrical	T&C Method Statement for LV Cable & Wire Testing	14/05/2018	Jerry Magno	Turner	Open	0/0	166	
DR-0006	Electrical	T&C Method Statement for Aircraft Obstruction Lights	08/05/2018	Jerry Magno Jayson Yazon	Turner	Open	0/0	172	
DR-0007	Mechanical	T&C Method Statement for HVAC TAB	21/01/2018	Jayson Yazon	Turner	Open	0/0	279	
DR-0008	Mechanical	T&C Inspection Request & Test Pack for FCU Air TAB of T2 Floor 18 Flats	21/01/2018	Jayson Yazon	Turner	Open	0/0	279	
DR-0009	Mechanical	T&C Inspection Request & Test Pack for FCU Air TAB of T2 Floor 20 Flats	21/01/2018	Jayson Yazon	Turner	Open	0/0	279	
DR-0010	Mechanical	T&C Inspection Request & Test Pack for FCU Air TAB of T1 Floor 29 Flats	24/01/2018	Jayson Yazon	Turner	Open	0/0	276	
DR-0011	Mechanical	T&C Inspection Request & Test Pack for FCU Air TAB of T3 Floor 18 Flats	24/01/2018	Johnny Ambeguia	Turner	Open	0/0	276	
DR-0012	Electrical	T&C Method Statement for GRP Water Tanks	24/01/2018	Jayson Yazon	Turner	Open	0/0	276	
DR-0013	Mechanical	T&C Method Statement for Sump Pumps	17/06/2018	Charles Philip Mago	Turner	Open	0/0	132	
DR-0014	Electrical	T&C Method Statement for CBS Basement 1 & 2	25/01/2018	Jayson Yazon	Turner	Open	0/0	275	
DR-0015	Electrical	T&C Method Statement for LV Switchgears	22/03/2018	Jayson Yazon	Turner	Open	0/0	219	
DR-0016	Mechanical	T&C Inspection Request & Test Pack for FCU Air TAB of T3 Floor 19 Flats	25/01/2018	Johnny Ambeguia	Turner	Open	0/0	275	
DR-0017	Electrical	T&C Method Statement for LV Switchgears	31/01/2018	Jayson Yazon	Turner	Open	0/0	269	
DR-0018	Extra Low Voltage	T&C Method Statement for Structured Cabling System	08/05/2018	Allann Valencia	Turner	Open	0/0	172	
DR-0019	Extra Low Voltage	T&C Method Statement for Guest Room Management System	21/05/2018	Jayson Yazon	Turner	Open	0/0	159	
DR-0020	Mechanical	T&C Method Statement for Fan Coil Units	31/01/2018	Johnny Ambeguia	Turner	Open	0/0	269	
DR-0021	Mechanical	T&C Method Statement for Chilled Water Pumps	08/04/2018	Charles Philip Mago	Turner	Open	0/0	202	
DR-0022	Mechanical	T&C Method Statement for Chilled Water Pressurization Unit	01/02/2018	Johnny Ambeguia	Turner	Open	0/0	268	
DR-0023	Mechanical	T&C Method Statement for Ecology Unit	22/04/2018	Charles Philip Mago	Turner	Open	0/0	188	
DR-0024	Extra Low Voltage	T&C Method Statement for Building Management System	15/04/2018	Allann Valencia	Turner	Open	0/0	195	
DR-0025	Mechanical	T&C Method Statement for Sump Pumps	22/04/2018	Charles Philip Mago	Turner	Open	0/0	188	
DR-0026	Electrical	T&C Method Statement for Diesel Generator	12/02/2018	Jayson Yazon	Turner	Open	0/0	257	
DR-0027	Mechanical	T&C Method Statement for Chilled Water Pumps	10/04/2018	Charles Philip Mago	Turner	Open	0/0	200	
DR-0028	Electrical	T&C Inspection Request for Emergency Lighting Cable Testing	13/02/2018	John Callaghan	Turner	Open	0/0	256	

Figure 38: DR Log - Data Entry

Document Review Log for **PDF upload** displays all the Document Reviews created for the project including the ones which are created from Data Entry page. PDF uploaded DRs are identified with enabled links in the second column of the respective DRs as shown in the figure below

Document Review / Document Review Log

Register Upload Graph Q Settings Print

DR No.	Service	Documents	Issue Date	Issued To	Recorded By	Comments	Response	Status
All	All	All	All	All	All selected (23)	All	All	All
DR-0001	Electrical	T&C Method Statement for Earthing System	22/02/2018	Turner	John Callaghan	13/13	0	Open
DR-0002	Electrical	T&C Method Statement for Lightning Protection System	28/02/2018	Turner	Jayson Yazon	18/18	0	Open
DR-0003	Electrical	T&C Method Statement for TETRA Communication System	28/02/2018	Turner	Jayson Yazon	21/21	0	Open
DR-0004	Electrical	T&C Method Statement for LV Cable Testing	24/04/2018	Turner	Jerry Magno Jayson Yazon	6/6	0	Open
DR-0005	Electrical	T&C Method Statement for LV Cable & Wire Testing	14/05/2018	Turner	Jerry Magno	2/2	0	Open
DR-0006	Electrical	T&C Method Statement for Aircraft Obstruction Lights	08/05/2018	Turner	Jerry Magno Jayson Yazon	11/11	0	Open
DR-0007	Mechanical	T&C Method Statement for HVAC TAB	21/01/2018	Turner	Jayson Yazon	39/39	0	Open
DR-0008	Mechanical	T&C Inspection Request & Test Pack for FCU Air TAB of T2 Floor 18 Flats	21/01/2018	Turner	Jayson Yazon	34/34	0	Open
DR-0009	Mechanical	T&C Inspection Request & Test Pack for FCU Air TAB of T2 Floor 20 Flats	21/01/2018	Turner	Jayson Yazon	23/23	0	Open
DR-0010	Mechanical	T&C Inspection Request & Test Pack for FCU Air TAB of T1 Floor 29 Flats	24/01/2018	Turner	Jayson Yazon	25/25	0	Open
DR-0011	Mechanical	T&C Inspection Request & Test Pack for FCU Air TAB of T3 Floor 18 Flats	24/01/2018	Turner	Johnny Ambegulia	14/14	0	Open
DR-0012	Electrical	T&C Method Statement for GRP Water Tanks	24/01/2018	Turner	Jayson Yazon	22/22	0	Open
DR-0013	Mechanical	T&C Method Statement for Sump Pumps	17/06/2018	Turner	Charles Philip Mago	3/3	0	Open
DR-0014	Electrical	T&C Method Statement for CBS Basement 1 & 2	25/01/2018	Turner	Jayson Yazon	3/3	0	Open
DR-0015	Electrical	T&C Method Statement for LV Switchgears	22/03/2018	Turner	Jayson Yazon	13/13	0	Open
DR-0016	Mechanical	T&C Inspection Request & Test Pack for FCU Air TAB of T3 Floor 19 Flats	25/01/2018	Turner	Johnny Ambegulia	14/14	0	Open
DR-0017	Electrical	T&C Method Statement for LV Switchgears	31/01/2018	Turner	Jayson Yazon	61/61	0	Open
DR-0018	Extra Low Voltage	T&C Method Statement for Structured Cabling System	08/05/2018	Turner	Allann Valencia	7/7	0	Open
DR-0019	Extra Low Voltage	T&C Method Statement for Guest Room Management System	21/05/2018	Turner	Jayson Yazon	31/31	0	Open
DR-0020	Mechanical	T&C Method Statement for Fan Coil Units	31/01/2018	Turner	Johnny Ambegulia	25/25	0	Open
DR-0021	Mechanical	T&C Method Statement for Chilled Water Pumps	08/04/2018	Turner	Charles Philip Mago	5/5	0	Open
DR-0022	Mechanical	T&C Method Statement for Chilled Water Pressurization Unit	01/02/2018	Turner	Johnny Ambegulia	3/3	0	Open
DR-0023	Mechanical	T&C Method Statement for Ecology Unit	22/04/2018	Turner	Charles Philip Mago	8/8	0	Open

Page 1 of 4 Show 100 items

Figure 39: DR Log - PDF Upload

b) Create DR

New Document Review record can be created with manual data entry by clicking on the Create button in DR Log screen. This option is available only with Data Entry selection.

User needs to input the Document Review details by selecting the service, document description, issued to user and item details. File upload feature is provided for each of the DR item.

On clicking Issue button, the DR will be issued to the selected user. On clicking Save button, the DR will be saved as a draft until the user manually opts to issue them and notify the user.

Document Review / Create Document Review

Select Service Select User

Item No.	Description	Details	Attach Documents
001			Attach from computer <input type="button" value="Go"/> <input type="button" value="Trash"/>

Figure 40: DR Data Entry - Create DR

c) DR Saved Log

DR Saved Log is available by clicking on the **Saved Log** button in the Document Review Log of Data Entry page. The DRs listed in this page are the ones which are in draft status and not issued yet. Any updates to these records could be done and saved again without sending to any user. DR Saved Log screen is identical to DR Log page.

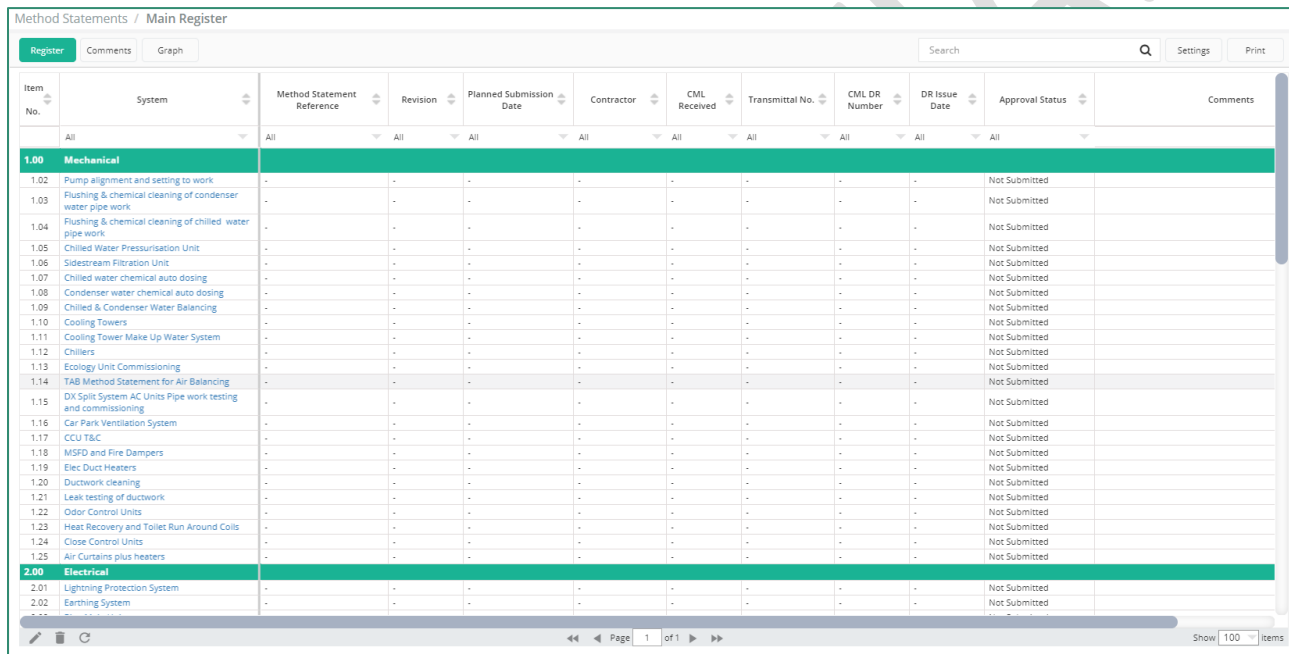
3.08 Method Statements

Method Statements in CMLT+ are featured with the following. Each of these features/pages are detailed in the subsequent sections.

- ❖ Method Statement Register
- ❖ Method Statement Graph (Status and Executive)
- ❖ Method Statement Log
- ❖ Method Statement Comments
- ❖ Method Statement View/Review PDF

a) Method Statement Register

On selecting the **Method Statement Log** in the file tree, the user will be navigated to the Method Statement Register listing the status of each of the systems as shown in the figure below:



Item No.	System	Method Statement Reference	Revision	Planned Submission Date	Contractor	CML Received	Transmittal No.	CML DR Number	DR Issue Date	Approval Status	Comments
1.00 Mechanical											
1.02	Pump alignments and setting to work	-	-	-	-	-	-	-	-	Not Submitted	
1.03	Flushing & chemical cleaning of condenser water pipe work	-	-	-	-	-	-	-	-	Not Submitted	
1.04	Flushing & chemical cleaning of chilled water pipe work	-	-	-	-	-	-	-	-	Not Submitted	
1.05	Chilled Water Pressurisation Unit	-	-	-	-	-	-	-	-	Not Submitted	
1.06	Steam Filtration Unit	-	-	-	-	-	-	-	-	Not Submitted	
1.07	Chilled water chemical auto dosing	-	-	-	-	-	-	-	-	Not Submitted	
1.08	Condenser water chemical auto dosing	-	-	-	-	-	-	-	-	Not Submitted	
1.09	Chilled & Condenser Water Balancing	-	-	-	-	-	-	-	-	Not Submitted	
1.10	Cooling Towers	-	-	-	-	-	-	-	-	Not Submitted	
1.11	Cooling Tower Make Up Water System	-	-	-	-	-	-	-	-	Not Submitted	
1.12	Chillers	-	-	-	-	-	-	-	-	Not Submitted	
1.13	Ecology Unit Commissioning	-	-	-	-	-	-	-	-	Not Submitted	
1.14	TAB Method Statement for Air Balancing	-	-	-	-	-	-	-	-	Not Submitted	
1.15	DX Split System AC Units Pipe work testing and commissioning	-	-	-	-	-	-	-	-	Not Submitted	
1.16	Car Park Ventilation System	-	-	-	-	-	-	-	-	Not Submitted	
1.17	CCU T&C	-	-	-	-	-	-	-	-	Not Submitted	
1.18	MSFD and Fire Dampers	-	-	-	-	-	-	-	-	Not Submitted	
1.19	Elec Duct Heaters	-	-	-	-	-	-	-	-	Not Submitted	
1.20	Ductwork cleaning	-	-	-	-	-	-	-	-	Not Submitted	
1.21	Leak testing of ductwork	-	-	-	-	-	-	-	-	Not Submitted	
1.22	Odor Control Units	-	-	-	-	-	-	-	-	Not Submitted	
1.23	Heat Recovery and Toilet Run Around Coils	-	-	-	-	-	-	-	-	Not Submitted	
1.24	Close Control Units	-	-	-	-	-	-	-	-	Not Submitted	
1.25	Air Curtains plus heaters	-	-	-	-	-	-	-	-	Not Submitted	
2.00 Electrical											
2.01	Lightning Protection System	-	-	-	-	-	-	-	-	Not Submitted	
2.02	Earthing System	-	-	-	-	-	-	-	-	Not Submitted	

Figure 41: Method Statements Register

Method Statement System information can be updated using the edit icon in the bottom left toolbar or by double clicking on a specific cell of a row. On click of Edit icon modal popup is displayed as shown in the figure below:

Edit Method Statement Info

Cooling Towers

Item No. 1.10	Planned Submission Planned Date	Transmittal No. Transmittal No.	Contractor Select
CML Received CML Received	Comments Comments		

Save
Cancel

Figure 42: MS System Edit Window

On double clicking certain cells (Planned Submission or Transmittal No. or Contractor or CML Received or Comments), the cells will be enabled to edit the information as depicted in the figure below. On pressing enter key, the details will be saved automatically. Other details are updated based on the document upload for that specific system.

Method Statements / Main Register

Register Comments Graph Search [Q] Settings Print

Item No.	System	Method Statement Reference	Revision	Planned Submission Date	Contractor	CML Received	Transmittal No.	CML DR Number	DR Issue Date	ApI
All	All	All	All	All	All	All	All	All	All	All
1.00	Mechanical									
1.02	Pump alignment and setting to work	-	-	-	-	-	-	-	-	Not Si
1.03	Flushing & chemical cleaning of condenser water pipe work	-	-	-	-	-	-	-	-	Not Si
1.04	Flushing & chemical cleaning of chilled water pipe work	-	-	-	-	-	-	-	-	Not Si
1.05	Chilled Water Pressurisation Unit	-	-	-	-	-	-	-	-	Not Si
1.06	Sidestream Filtration Unit	-	-	-	-	-	-	-	-	Not Si
1.07	Chilled water chemical auto dosing	-	-	-	-	-	-	-	-	Not Si
1.08	Condenser water chemical auto dosing	-	-	-	-	-	-	-	-	Not Si
1.09	Chilled & Condenser Water Balancing	-	-	-	-	-	-	-	-	Not Si
1.10	Cooling Towers	-	-		Select			-	-	Not Si
1.11	Cooling Tower Make Up Water System	-	-	-	-	-	-	-	-	Not Si
1.12	Chillers	-	-	-	-	-	-	-	-	Not Si
1.13	Ecology Unit Commissioning	-	-	-	-	-	-	-	-	Not Si
1.14	TAB Method Statement for Air Balancing	-	-	-	-	-	-	-	-	Not Si
1.15	DX Split System AC Units Pipe work testing and commissioning	-	-	-	-	-	-	-	-	Not Si
1.16	Car Park Ventilation System	-	-	-	-	-	-	-	-	Not Si
1.17	CCU T&C	-	-	-	-	-	-	-	-	Not Si
1.18	MSPD and Fire Dampers	-	-	-	-	-	-	-	-	Not Si
1.19	Elec Duct Heaters	-	-	-	-	-	-	-	-	Not Si
1.20	Ductwork cleaning	-	-	-	-	-	-	-	-	Not Si
1.21	Leak testing of ductwork	-	-	-	-	-	-	-	-	Not Si
1.22	Odor Control Units	-	-	-	-	-	-	-	-	Not Si

Page 1 of 1 Show 100 items

Figure 43: MS Inline Edit

b) Method Statement Graph (Status and Executive)

Graph button on MS Register page will redirect the user to Method Statement Graph. User is able to filter the graph status by services and graph type. By default, status graph will be displayed as shown in the figure below:

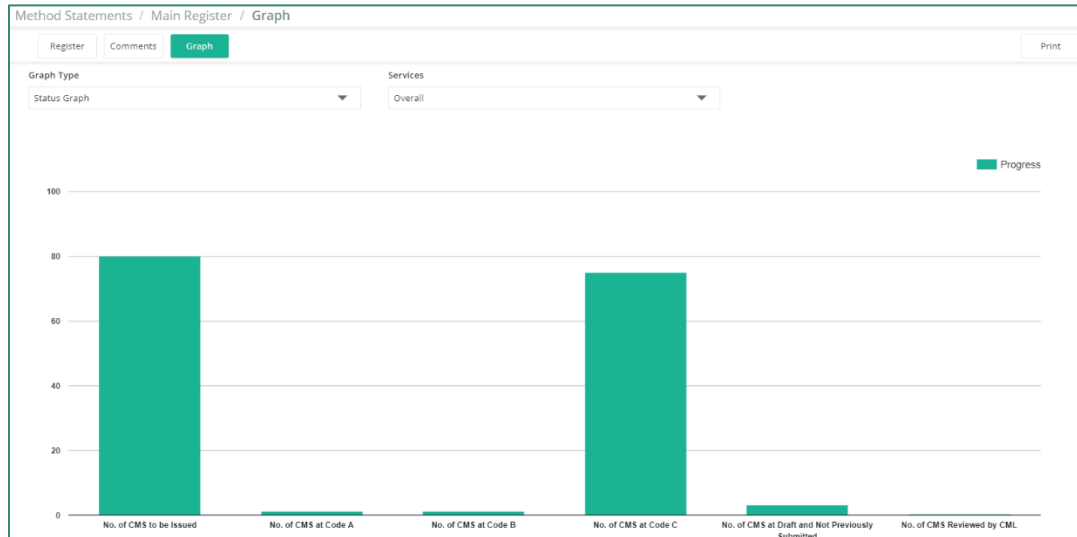


Figure 44: MS Status Graph

On changing the graph type to Executive Summary, the following graph will be displayed with the status in the history on weekly basis.

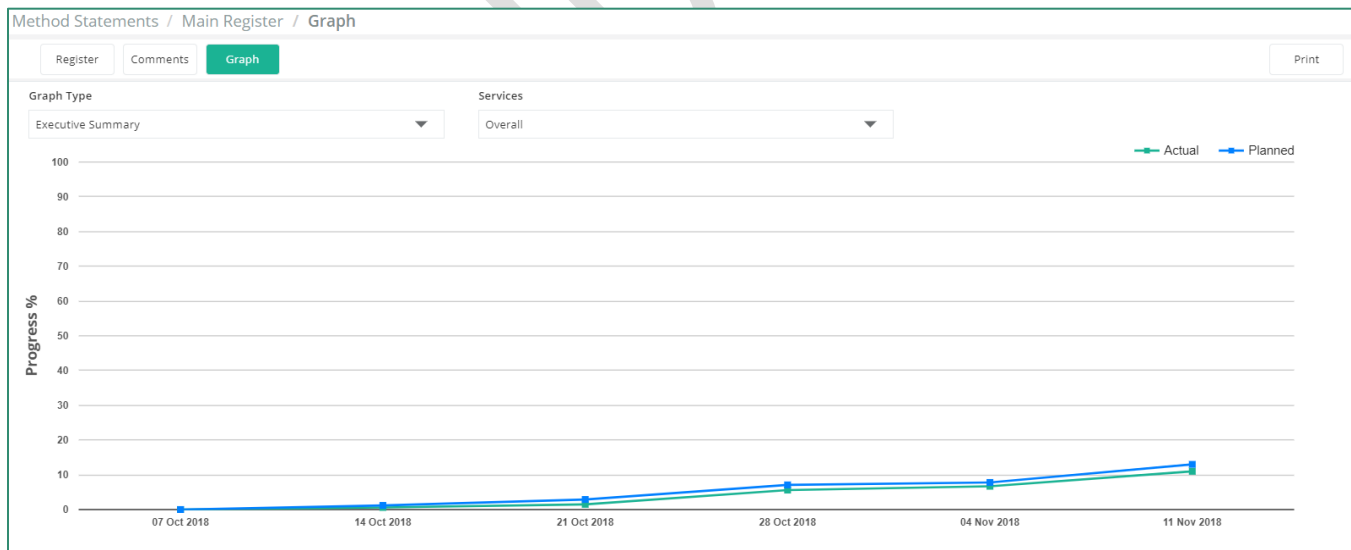


Figure 45: MS Graph - Executive Summary

c) Method Statement Log

On clicking the system name in the Method Statement file tree or in Register, user will be navigated to the Method Statement Log for the selected system. Method Statement Log displays a list of Method Statements uploaded for that system till date with various revisions as shown in the figure below. By

selecting appropriate options in MS Log screen, users will be enabled to view/review the Method Statements and input their comments if any.

Method Statements / 1.00 Mechanical / 1.01 Fire Dampers (Fusible Link & MSFD)

Register Upload Comments Search Info Settings Print

Item No.	Document Name / Reference	Upload Date	CML Received	Revision	Status	Total Comments	Open Comments
All	All	All	All	All	All	All	All
Latest Revision							
001	MS -Test Mech FD	24/09/2018	24/09/2018	02	Accepted	0	0
Previous Revisions							
002	Fire Damper Drop Test	06/02/2018	06/02/2018	01	Rejected	0	0

Page 1 of 1 Show 100 items

Figure 46: Method Statement Log

Method Statement Log is featured with:

- ❖ **Upload:** Upload window is displayed on clicking Upload button on the top left toolbar.

Upload button in the top left corner will open a modal window to select a method statement and input the details. Method Statement record will be created in the system by clicking on Upload button. The latest version of the method statements will be considered for review and the earlier versions will be put to revised status.

Upload Method Statement

Item No.	Document Name	Upload Date	Issue Date
001	<input type="text"/>	11/11/2018	11/11/2018
Revision	Status	<input type="checkbox"/> Carry over outstanding comments	
03	Under Review		

Drop files to upload
(or click)

Figure 47: Method Statement Upload

Method Statement details once uploaded are available for edit/update anytime using edit icon in the bottom left toolbar. Click once on any row and select the edit option to view the edit window as shown in the figure below.

- ❖ **Edit:** Edit window is displayed on selecting a row and clicking on Edit icon on the bottom left toolbar.

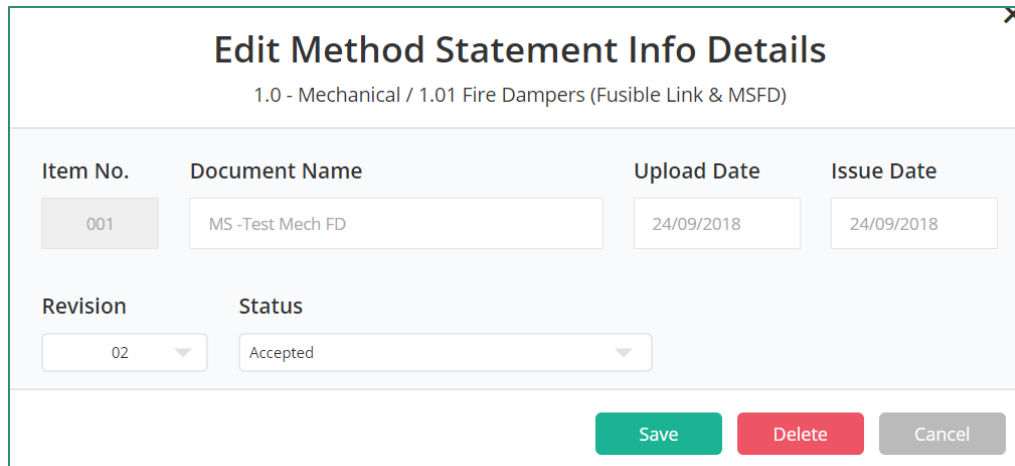


Figure 48: Method Statement Edit

- ❖ **Delete:** One or more method statement(s) can be deleted on clicking the corresponding rows and selecting delete icon on bottom left toolbar.
- ❖ **Print:** Print preview of the Method Statement Log is available on clicking Print button in the top right toolbar.
- ❖ **View:** Method Statement can be viewed in the browser by clicking on the document name link (2nd column) in the Method Statement Log. Method Statement review mode enables user to review the report and add/edit the comments for a specific page or section instantaneously. Comments created will be stored as drafts until user selects Issue Comments. Draft comments and Issued comments are available for viewing in 2 separate windows.
- ❖ **Comments:** Comments related to the Method Statements can be created/viewed using the Comments button at top left toolbar. Comments Log page displays a list of comments for all the Method Statements. Additional features on Comments Log page are highlighted in the figure below:
 - + **New Comment:** Enables user to input and save new comment.
 - + **Edit Comment:** Bottom left edit icon enables user to edit only those comments which are recorded by logged in user.
 - + **Delete Comment:** Comment delete icon in the bottom left toolbar will delete the selected comment.
 - + **Respond:** Inline Respond icon enables user to input response to the selected comment.
 - + **Status Change:** Comment status can be toggled Open/Close using the buttons provided inline.

d) Method Statement Comments

Method Statement Comments Log is available on selecting the Comments button in the top left toolbar of Method Statement Log.

Method Statements / 1.00 Mechanical / 1.01 Fire Dampers (Fusible Link & MSFD) / Comments Log

Register [New Comment](#) Unsaved! Search Filters Settings

<p>Jenevieve Catherine Dsouza Page 2 - Section 3.1</p> <p>At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditiis praesentium voluptatum deleniti atque corrupti quos dolores et quas molestias excepturi sint occaecati cupiditate non provident, similique sunt in culpa qui officia deserunt mollitia animi, id est laborum et dolorum fuga. Et harum quidem rerum facilis est et expedita distinctio. Nam libero tempore, cum soluta nobis est eligendi optio cumque nihil impedit quo minus id quod maxime placeat facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum hic tenetur a sapiente delectus, ut aut reiciendis voluptatibus maiores alias consequatur aut perferendis doloribus asperiores repellat.</p>	R - 00	28/11/2018
<p>Jenevieve Catherine Dsouza Page 1 - Section 2.1</p> <p>Lorem ipsum dolor sit amet, fierent electram nec et. Qui facete voluptat at ea, regione occurreret contentiones eum et. Quo sint posse assentior ei, ut ius sumo debitis. Pro ut utamur voluptat definitiones, dicat scribentur in est, usu ad omnes explicari abhorreant.</p>	R - 00	28/11/2018
<p>Jenevieve Catherine Dsouza Page 3 - Section 5.17</p> <p>No ludus nemore vel. Quo liber mnesarchum an, an errem iuaret sed. Vel in denique repudiare, et modus doming cum. Te per aeterno prodesset. His no quot soluta, persecuti incorrupte ea sea. Cum ei assum partem postulant, cu minimum mentitum elaboraret sed, ei appareat neglegentur nec. Quo ne elit utamur adipisci, vel verear dissentiunt ad.</p>	R - 00	28/11/2018

Found 3 comment(s) Show All Items

Figure 49: Method Statement - Comment Page

New comment can be added using the link [New Comment](#) at top left toolbar. On selecting [New Comment](#) link, a popup window will be displayed for the user to input the comment details such as comment text, page and section details as shown in the figure below. Save button in the [New Comment](#) dialog will issue the comments to the user whoever uploaded the document and [Cancel](#) button will save the comment as draft. Comments in draft status will be available only to the user who created it and marked with red in the status section.

New Comment ✕

Fire Damper Drop Test

Comment

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Page No.

5

Section No.

2.81.3

Add

✕ Page 3 / Section 5.17

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Save
Cancel

Figure 50: Method Statement - Add Comment

Issued comments are enabled for edit by selecting the comment and clicking on the edit icon at the bottom left toolbar. Edit Comment window will be displayed to allow editing of comment details as shown in the figure below. Clicking on Cancel will save the changes in draft status and clicking on Save Changes button will save and issue the comments.

Method Statements / 1.00 Mechanical / 1.01 Fire Dampers (Fusible Link & MSFD) / Comments Log

Register New Com
Search
Filters Settings

	28/11/2018	
	28/11/2018	
	28/11/2018	
	28/11/2018	
Jenevieve Catherine Dsouza Page 5 - Section 2.81.3 <u>Duis leo. Sed fringilla mauris sit amet nibh. Donec sodales sagittis magna. Sed consequat, leo eget bibendum sodales, augue velit cursus nunc.</u>	28/11/2018	

Found 4 comment(s)
Show All Items

Edit Comment ✕

Comment

No ludus nemore vel. Quo liber mnesarchum an, an errem iuaret sed. Vel in denique repudiare, et modus doming cum. Te per aeterno prodesset. His no quot soluta, persecuti incorrupte ea sea. Cum ei assum partem postulant, cu minimum mentitum elaboraret sed, ei appareat neglegentur nec. Quo ne elitr utamur adipisci, vel verear dissentiunt ad.

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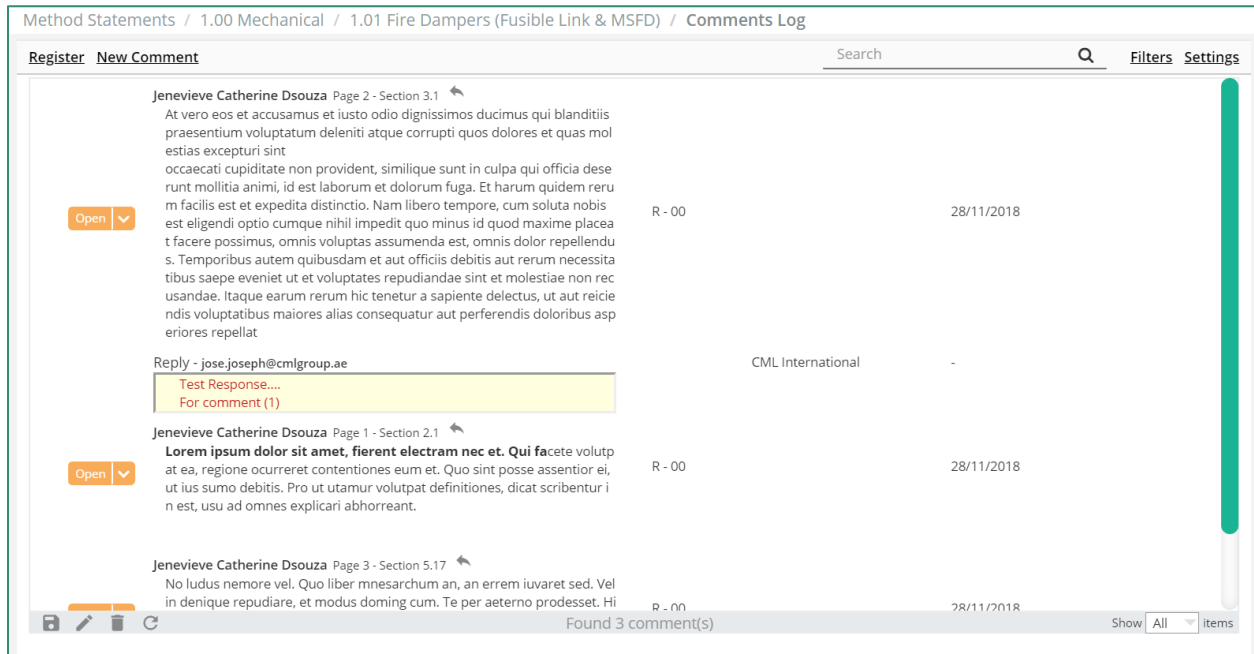
Page No. 3

Section No. 5.17

Cancel
Save Changes

Figure 51: Method Statement - Edit Comment

Response to the comments can be created using the reply icon next in the comment section. On clicking reply icon, the page will enable the response section for editing as shown in the figure below. User must click on 'Save' icon provided at the bottom of the page to save the response.



The screenshot displays the 'Comments Log' for a document titled 'Method Statements / 1.00 Mechanical / 1.01 Fire Dampers (Fusible Link & MSFD)'. The interface includes a search bar, filters, and settings options. A comment by 'Jenevieve Catherine Dsouza' is shown, with a response from 'jose.joseph@cmlgroup.ae' (CML International) visible. The response section is highlighted in yellow, indicating it is active for editing. The comment text is placeholder text (Lorem ipsum). The interface also shows a 'Found 3 comment(s)' status at the bottom.

Figure 52: Method Statement - Response to Comment

e) Method Statement View/Review PDF

Method Statement is available for viewing in the browser by clicking on the document name in the log page. Method Statement pdf will be displayed as shown in the figure below. Users will be enabled to review and add/edit their comments for the selected document. 'Add to Basket' button will save the comments in the draft status and listed in the Basket section in the righthand side. Issue Comments will issue the comments to the user whoever uploaded the document. Issues Comments could be viewed by clicking on Issued tab at the top right corner of the page. Exit button will navigate the user to Method Statement Log.

Method Statements / 1.00 Mechanical / 1.01 Fire Dampers (Fusible Link & MSFD) / 171129 SKY-C003-SUB-ACC-08039 Rev. 0.pdf

171129 SKY-C003-SUB-ACC-0803... 4 / 26

COMMISSIONING METHOD STATEMENT FOR FIRE DAMPER DROP TEST

Document No						Date:
Project	Doc Type	Originator	Revisor	3 Digit S/N No.	Rev.	
SV	T&C	BME	NORR	026	0	

List of Attachments

No	Reference	Description
1	SVBMEITPIA28-RO	Inspection and Test Plan
2	SVBMEICLHVAC-28-RO	Check List
3	SVBMEHVACREGISTER-28-RO	Register
4	SVBMEHVACRA-28-RO	Risk Assessment

Revision History

Rev No	Date	Prepared By DAIGC Manager	Reviewed By Project Manager	Approved By Sr. Project Manager	Description
0	01/11/18	[Signature]	[Signature]	[Signature]	Commissioning Method statement for Fire Damper Drop Test.

Page 5 / Section 2.81.3

Duis leo. Sed fringilla mauris sit amet nibh. Donec sodales sagittis magna. Sed consequat, leo eget bibendum sodales, augue velit cursus nunc.

Issue Comments

Exit

Figure 53: Review Method Statement

3.09 Meeting Minutes

Meeting minutes are categorized as per the project requirements and configured separately creating folders for each of the meeting category. Meeting minutes module in CMLT+ will enable the users to upload all revisions of meeting minutes whenever available. Uploaded documents are available for the project users to view online anytime. On selecting a specific meeting folder under Meeting Minutes in the navigation bar, the user will be redirected to the Meeting Minutes Log listing all the revisions for the selected folder as shown in the figure below:

MeetingMinutes / Common Meetings

Register Upload Search Print

Item No.	Document Name	Upload Date	Meeting Date	Total Comments	Outstanding Comments
Latest Meeting					
001	Commissioning Meeting 027	05/12/2018	27/11/2018	0	0
Previous Meetings					
002	Commissioning Meeting 026	05/12/2018	13/11/2018	0	0
003	Commissioning Meeting 025	05/12/2018	30/10/2018	0	0
004	Commissioning Meeting 024	05/12/2018	09/10/2018	0	0
005	Commissioning Meeting 023	05/12/2018	25/09/2018	0	0
006	Commissioning Meeting 022	29/09/2018	11/09/2018	0	0
007	Commissioning Meeting 021	30/08/2018	30/08/2018	0	0
008	Commissioning Meeting 020	27/08/2018	27/08/2018	0	0
009	Commissioning Meeting 019	27/08/2018	27/08/2018	0	0
010	Commissioning Meeting 018	27/08/2018	27/08/2018	0	0
011	Commissioning Meeting 017	01/07/2018	28/06/2018	0	0
012	Commissioning Meeting 016	23/06/2018	23/06/2018	0	0
013	Commissioning Meeting 015	23/06/2018	23/06/2018	0	0
014	Commissioning Meeting 014	23/06/2018	23/06/2018	0	0
015	Commissioning Meeting 013	02/05/2018	02/05/2018	0	0
016	Commissioning Meeting 012	02/05/2018	02/05/2018	0	0
017	Commissioning Meeting 011	02/05/2018	02/05/2018	0	0
018	Commissioning Meeting 010	02/05/2018	02/05/2018	0	0
019	Commissioning Meeting 009	02/05/2018	02/05/2018	0	0
020	Commissioning Meeting 008	02/05/2018	02/05/2018	0	0
021	Commissioning Meeting 007	02/05/2018	02/05/2018	0	0
022	Commissioning Meeting 006	02/05/2018	02/05/2018	0	0
023	Commissioning Meeting 005	11/01/2018	11/01/2018	0	0
024	Commissioning Meeting 004	17/12/2017	17/12/2017	0	0
025	Commissioning Meeting 003	17/12/2017	17/12/2017	0	0

Show All Items

Figure 54: Meeting Minutes Log

Meeting Minutes Log is featured with:

- ❖ **Upload:** Upload window is displayed on clicking Upload button on the top left toolbar. User is enabled to input the document name, meeting date and upload meeting minutes in PDF format. On selecting Upload button, the meeting minutes will be uploaded in CMLT+.

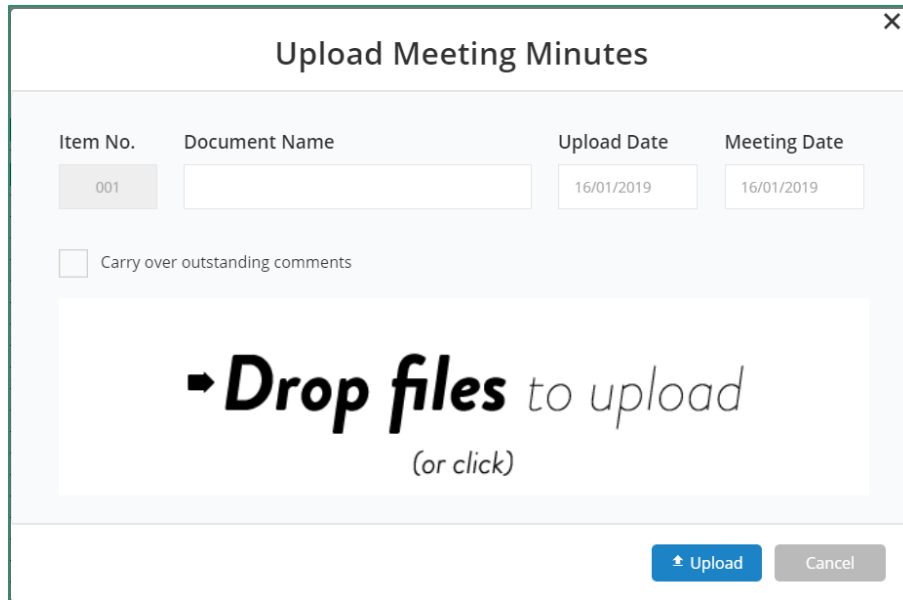


Figure 55: Upload Meeting Minutes

- ❖ **Edit:** Edit window is displayed on selecting a row and clicking on Edit icon on the bottom left toolbar.

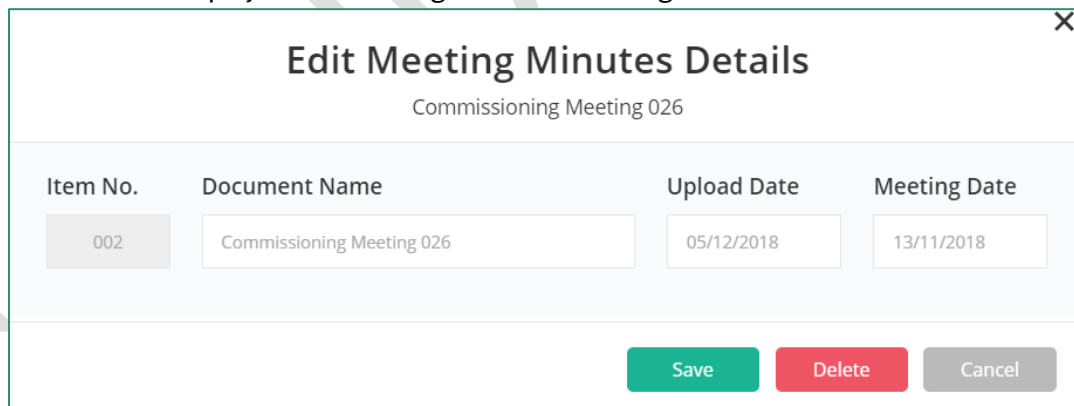


Figure 56: Edit Meeting Minutes Details

- ❖ **Delete:** One or more meeting minute(s) can be deleted on clicking the corresponding rows and selecting delete icon on bottom left toolbar.
- ❖ **Print:** Print preview of the Meeting Minutes Log is available on clicking Print button in the top right toolbar.
- ❖ **View:** Meeting Minutes can be viewed in the browser by clicking on the document name link (2nd column) in the Meeting Minutes Log. Meeting Minutes review mode enables user to review the report and add/edit the comments for a specific page or section instantaneously. Comments created

will be stored as drafts until user selects Issue Comments. Draft comments and Issued comments are available for viewing in 2 separate tabs.

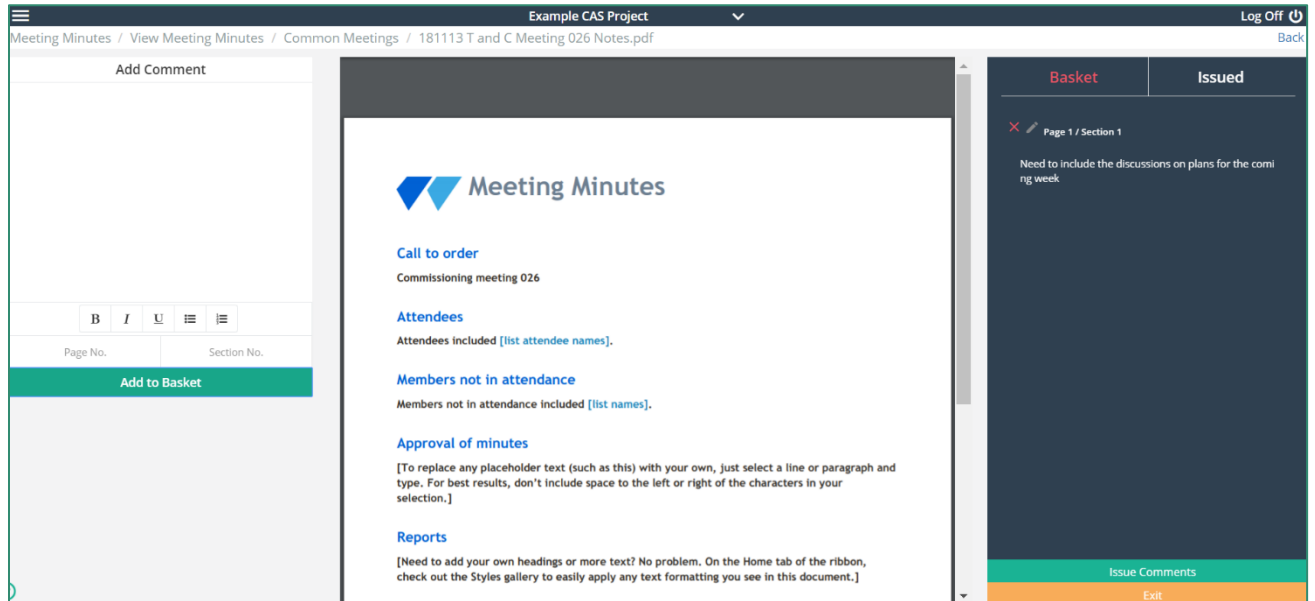


Figure 57: View/Review Meeting Minutes

3.10 Programmes

CMLT+ enables users to upload commissioning programmes and planning estimates in the PDF format. Two folders named Full Programmes and Two Week Look Ahead are created under Programmes menu in the navigation bar. Folder structure can be modified as per the project needs before the project commences. On select a specific folder under the Programmes menu, the user will be redirected to the Programmes Log to view the list of Programmes uploaded till date as shown in the figure below.

Item No.	Document Name	Upload Date	Issue Date	Revision	Status	Total Comments	Outstanding Comments	Document Review
Latest Revision								
001	Commissioning Programme-06	21/11/2018	15/11/2018	07	Revised	0	0	-
Previous Revisions								
002	Commissioning Programme-05	21/11/2018	15/10/2018	06	Revised	0	0	-
003	Commissioning Programme-04	29/09/2018	20/09/2018	05	Revised	0	0	-
004	Commissioning Programme-03	17/09/2018	17/09/2018	04	Revised	0	0	-
005	Commissioning Programme-02	23/08/2018	19/08/2018	03	Revised	1	1	-
006	Commissioning Programme-01	29/07/2018	03/07/2018	02	REVISED	0	0	-
007	Commissioning Programme-00	23/06/2018	23/06/2018	01	REVISED	0	0	-

Figure 58: Programmes Log

Program Log is featured with:

- ❖ **Upload:** Upload window is displayed on clicking Upload button on the top left toolbar.

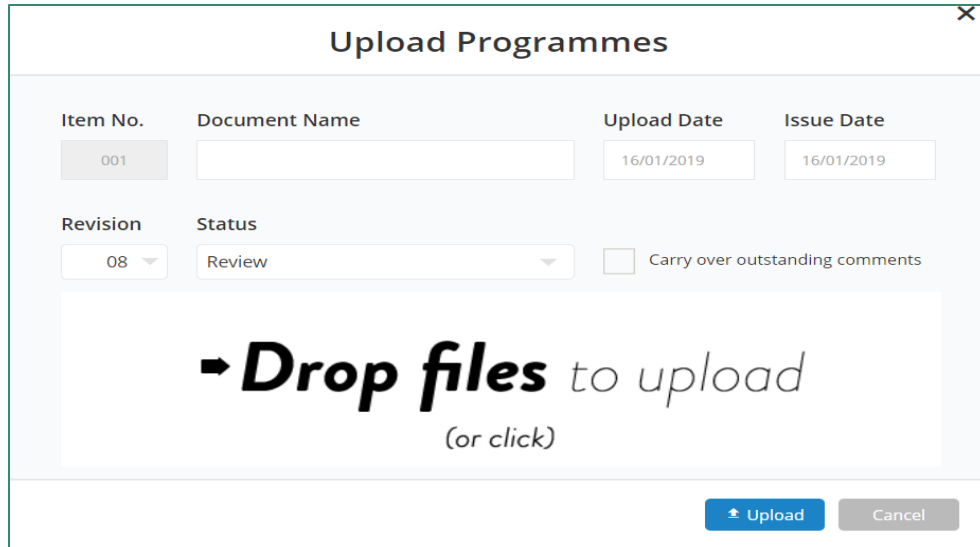


Figure 59: Upload Programmes

- ❖ **Edit:** Edit window is displayed on selecting a row and clicking on Edit icon on the bottom left toolbar.

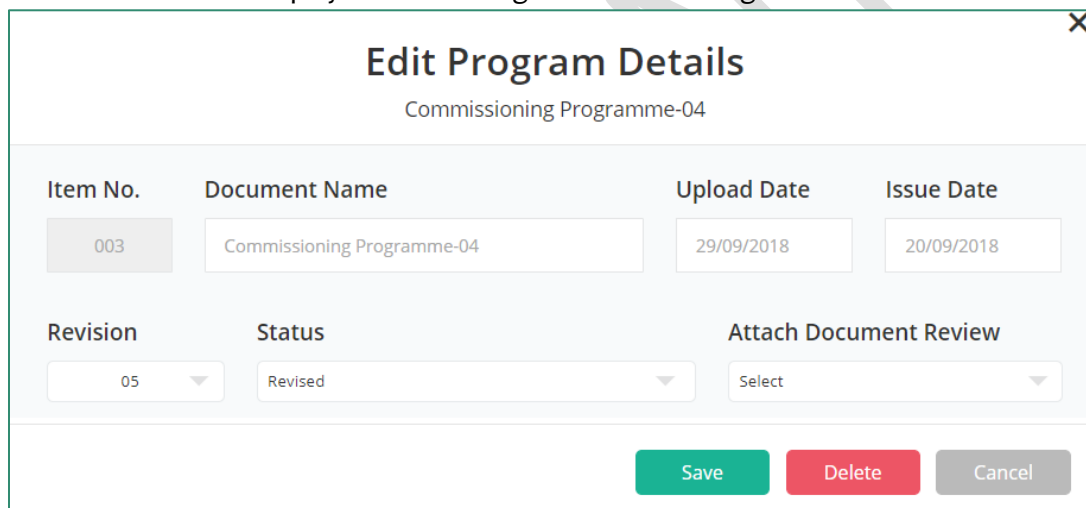


Figure 60: Edit Program

- ❖ **Delete:** One or more Programmes can be deleted on clicking the corresponding rows and selecting delete icon on bottom left toolbar.
- ❖ **Print:** Print preview of the Program Log is available on clicking Print button in the top right toolbar.
- ❖ **View:** Program can be viewed in the browser by clicking on the document name link (2nd column) in the Program Log. Program review mode enables user to review the report and add/edit the comments for a specific page or section instantaneously. Comments created will be stored as drafts until user selects Issue Comments. Draft comments and Issued comments are available for viewing in 2 separate tabs.

Programmes / View Programmes / Full Program / 181015 TASV_Commissioning Programme rev. 05.pdf

Add Comment

B **I** **U** **☰** **☰**

Page No. Activity No.

Add to Basket

Activity Name	Start	End	Duration	Progress
City Centre Al Zahra				
Commissioning & Control Missions				
Commissioning Commissioning Dates	20/06/18	20/06/18	00	0%
CCS 1000	02/06/18	02/06/18	0	0%
CCS 1010	28/06/18	28/06/18	0	0%
CCS 1020	28/06/18	28/06/18	0	0%
CCS 1030	28/06/18	28/06/18	0	0%
CCS 1040	28/06/18	28/06/18	0	0%
Integrated System Testing				
IST 1000	04/06/18	04/06/18	0	0%
IST 1010	04/06/18	04/06/18	0	0%
IST 1020	04/06/18	04/06/18	0	0%
IST 1030	04/06/18	04/06/18	0	0%
Control Missions				
CMC 1000	13/06/18	13/06/18	0	0%
CMC 1010	13/06/18	13/06/18	0	0%
CMC 1020	13/06/18	13/06/18	0	0%
CMC 1030	13/06/18	13/06/18	0	0%
CMC 1040	13/06/18	13/06/18	0	0%
CMC 1050	13/06/18	13/06/18	0	0%
Testing & Commissioning				
Pre-test Activities				
PTA 1000	13/06/18	13/06/18	0	0%
Testing & Commissioning				
TCS 1000	20/06/18	20/06/18	0	0%
Testing & Commissioning				
TCS 1010	20/06/18	20/06/18	0	0%
TCS 1020	20/06/18	20/06/18	0	0%
TCS 1030	20/06/18	20/06/18	0	0%
TCS 1040	20/06/18	20/06/18	0	0%
TCS 1050	20/06/18	20/06/18	0	0%
TCS 1060	20/06/18	20/06/18	0	0%
TCS 1070	20/06/18	20/06/18	0	0%
TCS 1080	20/06/18	20/06/18	0	0%
TCS 1090	20/06/18	20/06/18	0	0%
TCS 1100	20/06/18	20/06/18	0	0%
TCS 1110	20/06/18	20/06/18	0	0%
TCS 1120	20/06/18	20/06/18	0	0%
TCS 1130	20/06/18	20/06/18	0	0%
TCS 1140	20/06/18	20/06/18	0	0%
TCS 1150	20/06/18	20/06/18	0	0%
TCS 1160	20/06/18	20/06/18	0	0%
TCS 1170	20/06/18	20/06/18	0	0%
TCS 1180	20/06/18	20/06/18	0	0%
TCS 1190	20/06/18	20/06/18	0	0%
TCS 1200	20/06/18	20/06/18	0	0%
TCS 1210	20/06/18	20/06/18	0	0%
TCS 1220	20/06/18	20/06/18	0	0%
TCS 1230	20/06/18	20/06/18	0	0%
TCS 1240	20/06/18	20/06/18	0	0%
TCS 1250	20/06/18	20/06/18	0	0%
TCS 1260	20/06/18	20/06/18	0	0%
TCS 1270	20/06/18	20/06/18	0	0%
TCS 1280	20/06/18	20/06/18	0	0%
TCS 1290	20/06/18	20/06/18	0	0%
TCS 1300	20/06/18	20/06/18	0	0%
TCS 1310	20/06/18	20/06/18	0	0%
TCS 1320	20/06/18	20/06/18	0	0%
TCS 1330	20/06/18	20/06/18	0	0%
TCS 1340	20/06/18	20/06/18	0	0%
TCS 1350	20/06/18	20/06/18	0	0%
TCS 1360	20/06/18	20/06/18	0	0%
TCS 1370	20/06/18	20/06/18	0	0%
TCS 1380	20/06/18	20/06/18	0	0%
TCS 1390	20/06/18	20/06/18	0	0%
TCS 1400	20/06/18	20/06/18	0	0%
TCS 1410	20/06/18	20/06/18	0	0%
TCS 1420	20/06/18	20/06/18	0	0%
TCS 1430	20/06/18	20/06/18	0	0%
TCS 1440	20/06/18	20/06/18	0	0%
TCS 1450	20/06/18	20/06/18	0	0%
TCS 1460	20/06/18	20/06/18	0	0%
TCS 1470	20/06/18	20/06/18	0	0%
TCS 1480	20/06/18	20/06/18	0	0%
TCS 1490	20/06/18	20/06/18	0	0%
TCS 1500	20/06/18	20/06/18	0	0%

Back

Basket **Issued**

Page 1 / Activity TBC-MV/LVEP-GF-1000

Start date needs to be updated for TBC-MV/LVEP-GF-1000

Issue Comments

Exit

Figure 61: View/Review Programme

- ❖ **Comments:** Comments related to the Programs can be created/viewed using the Comments button at top left toolbar. Comments Log page displays a list of comments for all the Programs. Additional features on Comments Log page are highlighted in the figure below:

Programmes / Full Program / Comments Log

Register **New Comment**
Search
Filters Settings

Open ▼	<p>Jenevieve Catherine Dsouza Page 1 - Activity TBC-MV/LVEP-GF-1000 Start date needs to be updated for TBC-MV/LVEP-GF-1000</p>	R - 06	16/01/2019	
Open ▼	<p>Jose Joseph Page 1.1 - Activity 2 test</p>	R - 03	12/06/2018	217d

Found 2 comment(s)
Show All Items

Figure 62: Programmes - Comments Log

- 🚩 **New Comment:** Enables user to input and save new comment.

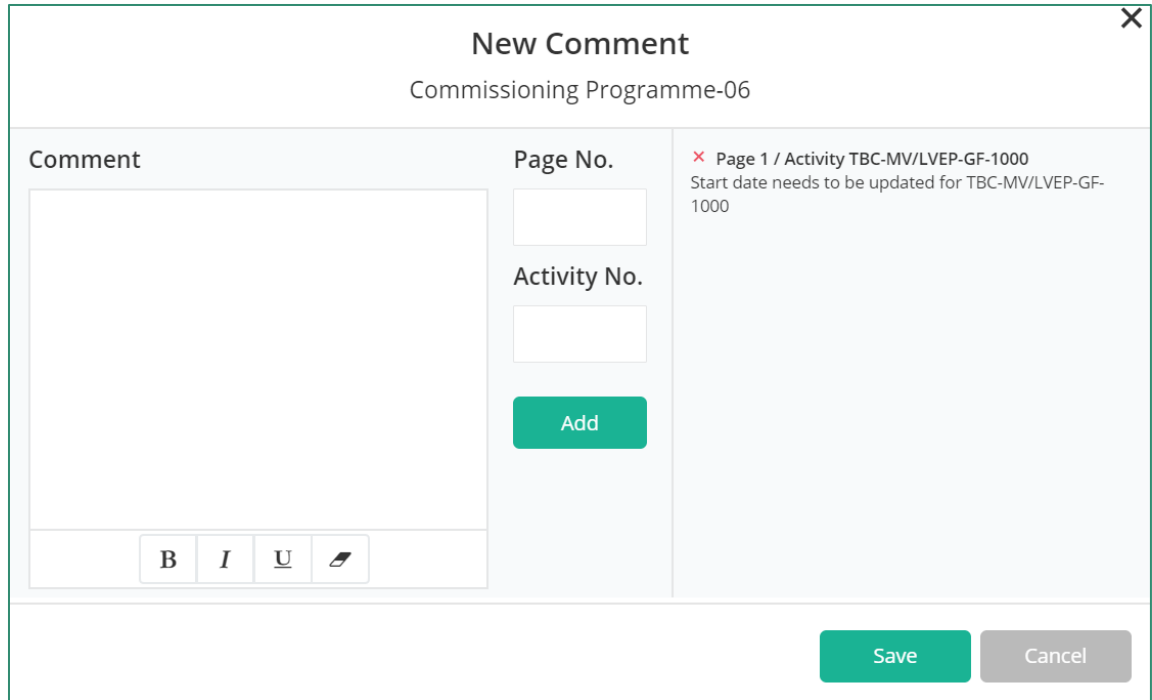


Figure 63: Programmes - Add New Comment

- ✚ **Edit Comment:** Bottom left edit icon enables user to edit only those comments which are recorded by logged in user.

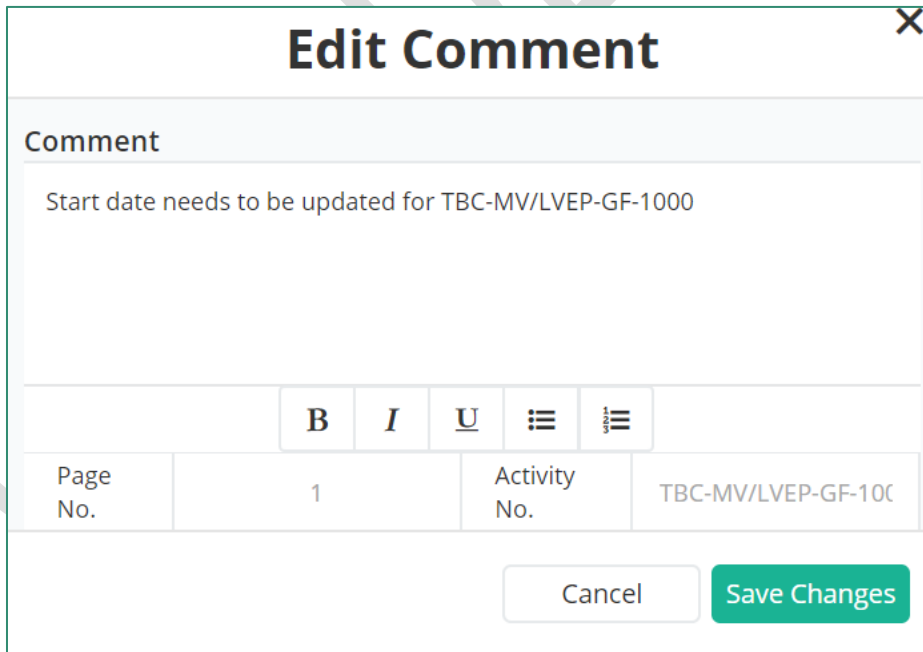


Figure 64: Programmes - Edit Comment

- ✚ **Delete Comment:** Comment delete icon in the bottom left toolbar will delete the selected comment.

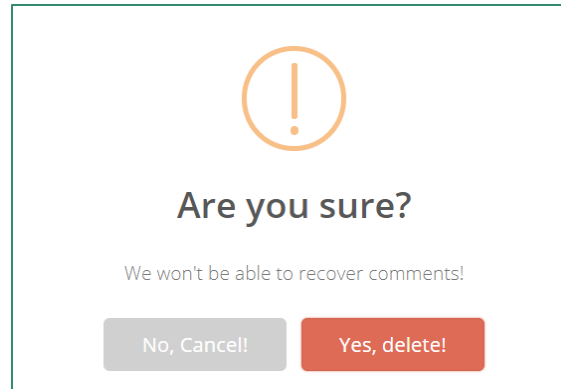


Figure 65: Programmes - Delete Comment

- ✚ **Respond:** Inline Respond icon enables user to input response to the selected comment.

Programmes / Full Program / Comments Log				Search	Q	Filters	Settings
Register	New Comment						
Open	Jenevieve Catherine Dsouza Page 1 - Activity TBC-MV/LVEP-GF-1000 Start date needs to be updated for TBC-MV/LVEP-GF-1000	R-06		16/01/2019			
Open	Jose Joseph Page 1.1 - Activity 2 test	R-03		12/06/2018	217d		
Reply - jenevieve.dsouza@cmlgroup.ae			CML International				
Response Text							

Figure 66: Programmes - Response to Comments

- ✚ **Status Change:** Comment status can be toggled Open/Close using the buttons provided inline in the Comments Log page.

3.11 Site Observation

Site Observation will detail the observations made on site by CML site engineers. These site observations are issued to the concerned contractors for further actions. CMLT+ enables the users to either manually input the Site Observation details in CMLT+ or upload the previously created Site Observation document using the options Data Entry and PDF Upload respectively.

On selecting Data Entry option, the user will be redirected to Site Observation log as shown in the figure below.

Site Observation / Site Observation Log

Register Create New Saved Log Report Search Settings Print

SO No.	Service	Subject(s) Reviewed	Issue Date	Reviewed By	Issued To	Status	Open / Closed	Days Overdue	Close Out Date
All	All	All	All	All	All	All	All	All	All
0001	Electrical	MCC, DB and Earthing	01/10/2017	Eman.Delapena	Turner	Open	3/0	457	
0002	Mechanical	Fusible Link Fire Damper located in Tower 1	15/10/2017	Larry Dinong	Turner	Open	3/0	443	
0003	Extra Low Voltage	Carpark Smoke Clearance interface to Fire Alarm System	26/10/2017	Eman.Delapena	Turner	Open	1/0	432	
0004	Mechanical	Chilled Water Flushing Tower 1 and Tower 2	17/12/2017	Charles Sevilena	Turner	Open	4/0	380	
0005	Mechanical	Fusible Link Fire Damper located in Tower 1 & 2	17/12/2017	Charles Sevilena	Turner	Open	3/0	380	
0006	Mechanical	Fire Damper Drop Test at Tower 1, Level 41 (Room 214-21A)	17/12/2017	Charles Sevilena	Turner	Closed	1/1	-	08/11/2018 00:00:00
0007	Extra Low Voltage	FAS Device Test of FACP-3, Loop 1 at Tower 1, Level 8 & 9	27/12/2017	Alan Forteza	Turner	Closed	2/2	-	08/11/2018 00:00:00
0008	Electrical	MDB and MCC (VFD configuration)	19/12/2017	Eman.Delapena	Turner	Closed	3/3	-	08/11/2018 00:00:00
0009	Mechanical	Fire Damper Drop Test at Tower 2, Level 41	20/12/2017	Charles Sevilena	Turner	Closed	1/1	-	08/11/2018 00:00:00
0010	Extra Low Voltage	Life and Safety Fans Maintenance Switch	25/01/2018	Eman.Delapena	Turner	Closed	1/1	-	08/11/2018 00:00:00
0011	Mechanical	Tower 1 & 2 (Mechanical/Public Health/Fire Protection System)	24/03/2018	Charles Sevilena	Turner	Open	7/0	283	
0012	Public Health	Fire Fighting Pump Control Panel	21/04/2018	Charles Sevilena	Turner	Closed	1/0	-	
0013	Electrical	Life and safety Fans	02/05/2018	Eman.Delapena	Turner	Closed	2/2	-	13/12/2018 00:00:00
0014	Electrical	Tower 1 & 2 (ELECTRICAL System)	02/05/2018	Eman.Delapena	Turner	Open	10/0	244	
0015	Mechanical	Flushing of Primary Chilled Water Circuit at Basement 1	10/06/2018	Charles Sevilena	Turner	Open	1/0	205	
0016	Electrical	Garbage Compactor in Tower 2 Ground Floor	23/06/2018	Roberto Scaioni	Turner	Open	1/0	192	
0017	Miscellaneous	High Pressure Trip indication and signal to BMS in Kitchen Cold Rooms compressor	21/11/2018	Eman.Delapena	Turner	Closed	1/1	-	13/12/2018 00:00:00
0018	Mechanical	FCC Installation	04/11/2018	Roberto Scaioni	Turner	Open	0/0	58	
0019	Mechanical	Fusible Link Fire Damper located in Tower 1 & 2	08/11/2018	Ferdinand Matibag	Turner	Open	1/1	54	

Show All items

Figure 67: Site Observation Log - Data Entry

Site Observation log provides the user various options to create a SO, save SO in draft status, view graphical representation of SO status, filter SO log and print of SO log. On clicking 'Create New' button, SO details screen will be displayed for the user to input the details of each SO item as shown in the figure below.

Site Observation / Create Site Observation

Select Service Subject(s) Select User Cancel Save Issue

Item No.	Details	Attach Documents
001		Attach from computer Go

Figure 68: Create Site Observation

To create a Site Observation, the user needs to input the service, subject, user to whom the SO is to be issued and item details including the images if any. Clicking on 'Save' button will store the Site Observation in draft status without issuing it whereas 'Issue' option will issue the Site Observation to the concerned user and send email notification to take up necessary actions if required.

Site observation stored in draft status will be available only to the user whoever created it. Draft SOs can be viewed and edited anytime online using the 'Saved Log' option in Site Observation Log page and then selecting the desired SO number from the Saved Log page. Similarly issued Site Observations can also be edited and reissued by clicking on the SO number in the Site Observation Log. On clicking the SO number, the user will be redirected to SO details page as shown in the figure below.

Site Observation / View Site Observation / 0004

Service :	Mechanical	Issued By :	Charles Sevillaena	Subject(s) Reviewed :	Chilled Water Flushing Tower 1 and Tower 2
Issued To :	Turner	Issued Date :	17/12/2017		

Item No	Details	Response	CML Comment	Actions
001	Chilled Water Secondary Pumps Primary High Rise fed from Basement 1 serving to HEX's level 16M and Level 44 Tower 1 (riser T1-H-R-44) and serving Tower 2 HEX's in Level 16M and Level 44 (riser T2-H-R-11). During the flushing of main riser's T1-H-R-44 and T2-H-R-11 located in Tower 1 and Tower 2 Level 18, the by-pass looping is too small approximately 25mmØ to 50mmØ, riser main	Awaiting Responses	Awaiting CML Comments	Reissue, Open, Toggle
002	Chilled Water Secondary Pumps Primary High Rise fed from Basement 1 serving to HEX's level 16M and Level 44 Tower 2. After final flushing of main riser T2-H-R-11 located in Tower 2 Level 18 removed by-pass loop. In this case no water circulation from level 16M to Level 18. Because bypass looping was removed leaving the system with two floors without circulation. See attached photo # 2.	Awaiting Responses	Awaiting CML Comments	View attachments, Open, Toggle
003	Chilled Water Secondary Pumps Primary High Rise fed from Basement 1 serving to HEX's level 16M and Level 44 Tower 1. After final flushing of main riser T1-H-R-44 located in Tower 1 Level 18 removed by-pass loop. In this case no water circulation from level 16M to Level 18. Because bypass looping was removed leaving the system with two floors without circulation. See attached photo # 3	Awaiting Responses	Awaiting CML Comments	Open, Toggle
004	<ul style="list-style-type: none"> • Tower 1, Chilled Water Secondary Pumps Primary Low Rise flushing incomplete. <ul style="list-style-type: none"> o Level 1 not ready, because of installation on-going. o Basement 03 to Level 03M still not ready. 	Awaiting Responses	Awaiting CML Comments	Open, Toggle

Figure 69: Site Observation - Edit Details

To view the Site Observation images associated with a item, the user needs to click on the attachment icon on the left hand side. User will be enabled to view the images in a pop-up window as shown in the figure below.

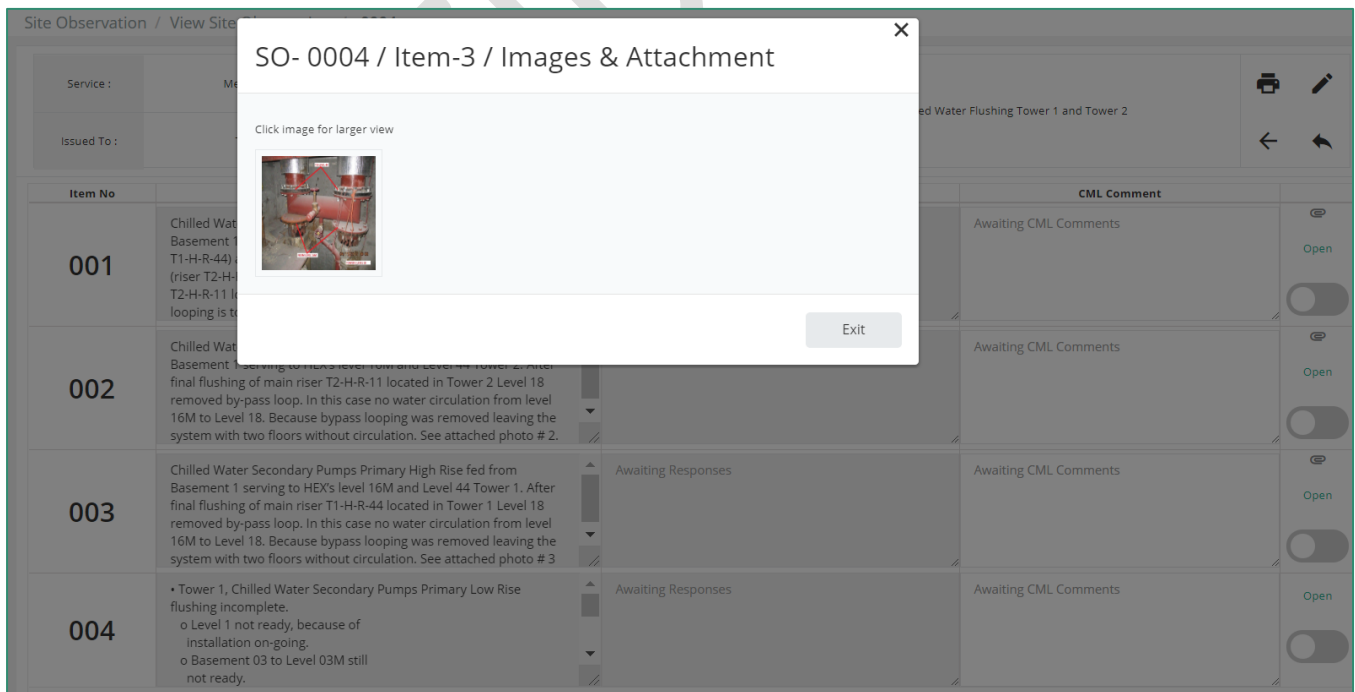





















Figure 70: Site Observation Details - View Images

CMLT+ allows users to upload the Site Observation documents in PDF formats. This will enable the users to generate the Site Observation details in offline mode and upload them in CMLT+ once completed. Also, the users can update the uploaded file anytime whenever there are updates to the site observations.

On selecting 'PDF Upload' option from the Site Observation menu, the Site Observation log will be displayed as shown below. SO numbers will have links enabled only if they have PDF files associated with them.

Site Observation Log

Register Upload Graph Q Print

	SO No.	Service	Subjects	Issue Date	Issued To	Recorded By	Comments	Response	Status
	All	All	All	All	All	All selected (19)	All	All	All
	SO0001	Electrical	MCC, DB and Earthing	01/10/2017	Turner	Eman.Delapena	0/0	0	Open
	SO0002	Mechanical	Fusible Link Fire Damper located in Tower 1	15/10/2017	Turner	Larry Dinong	0/0	0	Open
	SO0003	Extra Low Voltage	Carpark Smoke Clearance interface to Fire Alarm System	26/10/2017	Turner	Eman.Delapena	0/0	0	Open
	SO0004	Mechanical	Chilled Water Flushing Tower 1 and Tower 2	17/12/2017	Turner	Charles Sevilena	0/0	0	Open
	SO0005	Mechanical	Fusible Link Fire Damper located in Tower 1 & 2	17/12/2017	Turner	Charles Sevilena	0/0	0	Open
	SO0006	Mechanical	Fire Damper Drop Test at Tower 1, Level 41 (Room 214-21A)	17/12/2017	Turner	Charles Sevilena	0/0	0	Closed
	SO0007	Extra Low Voltage	FAS Device Test of FACP-3, Loop 1 at Tower 1, Level 8 & 9	27/12/2017	Turner	Alan Forteza	0/0	0	Closed
	SO0008	Electrical	MDB and MCC (VFD configuration)	19/12/2017	Turner	Eman.Delapena	0/0	0	Closed
	SO0009	Mechanical	Fire Damper Drop Test at Tower 2, Level 41	20/12/2017	Turner	Charles Sevilena	0/0	0	Closed
	SO0010	Extra Low Voltage	Life and Safety Fans Maintenance Switch	25/01/2018	Turner	Eman.Delapena	0/0	0	Closed
	SO0011	Mechanical	Tower 1 & 2 (Mechanical/Public Health/Fire Protection System)	24/03/2018	Turner	Charles Sevilena	0/0	0	Open
	SO0012	Public Health	Fire Fighting Pump Control Panel	21/04/2018	Turner	Charles Sevilena	0/0	0	Closed
	SO0013	Electrical	Life and safety Fans	02/05/2018	Turner	Eman.Delapena	0/0	0	Closed
	SO0014	Electrical	Tower 1 & 2 (ELECTRICAL System)	02/05/2018	Turner	Eman.Delapena	0/0	0	Open
	SO0015	Mechanical	Flushing of Primary Chilled Water Circuit at Basement 1	10/06/2018	Turner	Charles Sevilena	0/0	0	Open
	SO0016	Electrical	Garbage Compactor in Tower 2 Ground Floor	23/06/2018	Turner	Roberto Scaioni	0/0	0	Open
	SO0017	Miscellaneous	High Pressure Trip indication and signal to BMS in Kitchen Cold Rooms compressor	21/11/2018	Turner	Eman.Delapena	0/0	0	Closed
	SO0018	Mechanical	FCC Installation	04/11/2018	Turner	Roberto Scaioni	0/0	0	Open
	SO0019	Mechanical	Fusible Link Fire Damper located in Tower 1 & 2	08/11/2018	Turner	Ferdinand Matibag	0/0	0	Open

Show All Items

Figure 71: Site Observation Log - PDF Upload

Uploading a new SO document is made simpler in CMLT+ by clicking Upload button in the SO Log page. A pop-up window will be displayed for the user to input the details of the SO and select the file for upload as shown in the figure below. Upload pop-up will also be enabled in edit mode for updating the SO file.

Upload Site Observation

SO No.	Subject Name	Service	
<input type="text"/>	<input type="text"/>	Electrical ▼	
Recorded By	Issued Date	Issued To	
None ▼	01/10/2017	Select Issued To ▼	
Total Comments	Closed Comments	Response	Status
<input type="text"/>	<input type="text"/>	<input type="text"/>	▼

→ Drop files to upload
(or click)

Do Not Send Email Notification

Figure 72: Upload SO PDF

3.12 Issue Log

In the entire commissioning process there are certain issues encountered at the site which needs to be recorded and tracked by the project personnel. Such issues are logged into the issue tracker with the resolutions and recommendations.

User is enabled to view the issue list by clicking on the Issue Log link from navigation menu. Issue Log will display all the issues recorded till date as shown in the figure below.

Commissioning Issues Log								
Issue No	TIR/CIR No.	T/CIR Date	Issue	Date PM/Engineer Notified	Recommendation	Implication	Resolution Action Taken	
All	All	All	All	All	All	All	All	All
17154/001	NA	NA	FD Access and Drop Test	12 Oct 2017 Ref. SO002	Contractor to provide access and carry on the test.	NFPA and UAE L	NA	
17154/002	NA	NA	FAS cable IR test	05 Oct 2017 ref. DR0005	CML recommend the test to be carried out.	NFPA 72 and Specification requirement.	Records provided by Contractor (Test On-going)	
17154/003	NA	NA	FAS cable IR test	05 Oct 2017 ref. DR0005	CML recommend the test to be carried out.	The integrity of the panels are not proven and this can lead to failures.	MOBs panels test are on-going. (68%)	
17154/005			Pumps alignment	19 Oct 2017 Ref. DR0041	CML recommend the test to be carried out.	Reduction of pumps life and pump failure.	Records provided by Contractor (For Pumps Testing On-going)	
17154/006	NA	NA	Towers FAS phased evacuation	29 Oct 2017 Ref. DR0044	CML recommend that the Phased Evacuation is implemented.	Life safety issue to occupants.		
17154/007	NA	NA	Towers Stairwell pressurization by BMS modulating MD	19 Oct 2017 Ref. DR0036	Alternative solution to be discussed with the ENGINEER	This contradicts the NFPA and is a violation of the code.		
17154/008	NA	NA	Towers Stairwell pressurization by BMS modulating MD	19 Oct 2017 Ref. DR0036	Alternative solution to be discussed with the ENGINEER	This contradicts the NFPA and is a violation of the code.		
17154/009	NA	NA	Life safety fans start up signal subordinate to damper opening.	06 Nov 2017 Ref. CSR_01	Remove interlocks.	Un detected Tanks fuel oil leaks and fuel oil supply to generator on fire	Solution found and included in the Approved Commissioning method statements provided.	
17154/010	NA	NA	Carpark Smoke Clearance to be FAS driven overriding BMS CO control and H/O/A selector switches.	26 Oct 2017 Ref. SO003	Provision of the suitable logic interface	Car park smoke clearance failure.		
17154/012	NA	NA	Life and Safety Fans does not require overload protection as common practice and according to Codes.	22 April 2018 ref. SO013	Remove Overload protection.	Floors smoke control and stair ways / lifts pressurization failure.		
17154/004	NA	NA	Earthing System tests records	12 Oct 2017 Ref. SO001	CML recommend the test to be carried out.	These are DEWA requirement for permanent power on of the LV panels.	Records provided by Contractor (Test On-going)	
17154/011	NA	NA	Life Safety Fans Maintenance Switches monitoring by BMS	18 January 18 ref. SO010	Monitoring of the switches is strongly recommended	In the event of the switch being left open, it will cause: Wrong / incorrect Fan status displayed on BMS. The fan will not start in case of fire mode, without any warning	NORR Reply (23/01/2018) - These isol mentioned are provided with manual locking facility	

Figure 73: Issue Log

User is enabled to add a new issue by clicking on 'Add' button. On inputting the required details as directed on the screen and clicking 'Save' button, the issue will be created and listed in the Issue Log page.

Add Commissioning Issues Log

Issue No.	TIR / CIR No. (If applicable)	T/CIR Date
<input type="text"/>	<input type="text"/>	<input type="text"/>
Issue	Date PM/Engineer Notified	
<input type="text"/>	<input type="text"/>	
Recommendation	Implication	
<input type="text"/>	<input type="text"/>	
Resolution Action Taken	Resolution Date	Re-inspection Date
<input type="text"/>	<input type="text"/>	<input type="text"/>
Issue Resolution (Open/Closed)		
<input type="text" value="Closed"/>		
<input type="button" value="Save"/>		<input type="button" value="Cancel"/>

Figure 74: Add New Issue

On selecting the edit icon from the first column cell, the issue entry will be enabled for edit as shown in the figure below.

Edit Commissioning Issue

Issue No.	TIR / CIR No. (If applicable)	T/CIR Date
<input type="text" value="17154/011"/>	<input type="text" value="NA"/>	<input type="text" value="NA"/>
Issue	Date PM/Engineer Notified	
<input type="text" value="Life Safety Fans Maintenance Switches monitoring by BMS"/>	<input type="text" value="18 January 18 ref. SO010"/>	
Recommendation	Implication	
<input type="text" value="Monitoring of the switches is strongly recommended"/>	<input type="text" value="In the event of the switch being left open, it will cause: Wrong / incorrect Fan status displayed on"/>	
Resolution Action Taken	Resolution Date	Re-inspection Date
<input type="text" value="NORR Reply (23/01/2018) - These isolators mentioned are provided with manual locking facility"/>	<input type="text" value="19-01-2018"/>	<input type="text" value="NA"/>
Issue Resolution (Open/Closed)		
<input type="text" value="Closed"/>		

Figure 75: Edit Issue

Any of the issues can be deleted from the system by simply selecting the desired row and clicking on the delete icon at the bottom left corner of the page.

3.13 T/CIR

Testing and commissioning inspection reports are the test inspection documents created as part of commissioning activity. On selecting T/CIR link from the navigation menu, the TCIR list will be displayed as shown in the figure below.

Testing & Commissioning Inspection Reports

Item No.	Service	System	Received Date	T/CIR No	T/CIR Description	Inspection Planned	Contact Person	Actual Inspection Start and End Dates				Official TCIR Received Date	Status	
								Date	Time	Completed	Activity			
001	MECH		15/10/2017	(WIR) - SV/SVTC/AC/0034	Testing of FCU for rooms (7 rooms) at tower 1, Level 18.	16/10/2017	ALI / BILT	15/10/2017	Before Time Column	15/10/2017	Witnessed	Received From BILT 18/11/17	B	Acceptable to CI 05/11/17) Appro
002	ELV		09/11/2017	(WIR) - SV/MC/EL/23056	Fluke Test in Tower 1 Level 6, Inside apartment as per highlighted attached drawing and soft copy	09/11/2017	NAVEEN / BILT	09/11/2017	Before Time Column	09/11/2017	Witnessed	Received From BILT 19/11/17	B	Prior TCIR, Filed, submitted ICR-01
003	MECH		24/12/2017	SV/T/CIR/AC/0113	T&C of fire Damper drop test for room 1401-HD1, 1403-H-ES(B/L), 1413-H-ES(B/R) at Tower 2, level 14	26/12/2017	ALI / BILT	26/12/2017	Before Time Column	26/12/2017	Witnessed	Received From NORR 31/12/17	B	Acceptable to CI 27/12/17) Appro
004	MECH		23/06/2018	SV/T/CIR/AC/0900	Pre-commissioning and Start-up for TREF-T2-15-01 at Tower 2, Level 16	24/06/2018	VIPIIN / BILT	24/06/2018	Before Time Column	24/06/2018	Witnessed	Received From NORR 27/06/18	B	Acceptable to CI 25/06/18) Appro
005	ELEC		23/06/2018	SV/T/CIR/EL/0901	Inspection for T&C (Live/Functionality) of DB/T2-511, DB/T2-512, DB/T2-513, DB/T2-514, DB/T2-515 & its outgoing cables.	24/06/2018	GIRISH / BILT	18/06/2018	Before Time Column	18/06/2018	Witnessed	Received From NORR 27/06/18	B	Acceptable to CI 25/06/18) Appro
006	ELEC		23/06/2018	SV/T/CIR/EL/0902	Inspection for T&C (Live/Functionality) of DB/T2-501, DB/T2-502, DB/T2-503, DB/T2-504 & its outgoing cables.	24/06/2018	GIRISH / BILT	18/06/2018	Before Time Column	18/06/2018	Witnessed	Received From NORR 27/06/18	B	Acceptable to CI 25/06/18) Appro
007	ELEC		23/06/2018	SV/T/CIR/EL/0903	Inspection for T&C (Live/Functionality) of DB/T2-509, DB/T2-510 & its outgoing cables.	24/06/2018	GIRISH / BILT	18/06/2018	Before Time Column	18/06/2018	Witnessed	Received From NORR 27/06/18	B	Acceptable to CI 25/06/18) Appro
008	MECH		23/06/2018	SV/T/CIR/AC/0904	Witnessing of Air Duct Leakage Test for RAHU-G- (RETAIL)-01 (car Showroom) at Sector-08, Level 03	24/06/2018	TANSEER / BILT	24/06/2018	Before Time Column	24/06/2018	Witnessed	Received From NORR 27/06/18	B	Acceptable to CI 25/06/18) Appro
009	PH		25/06/2018	SV/T/CIR/PL/0907	Inspection for witnessing the flushing of Fire Fighting Pipes (Sprinkler Stand Pipe) in Tower-02, Level 17 - 28, Stair 4	26/06/2018	ANOOOP / BILT	25/06/2018	Before Time Column	25/06/2018	Witnessed	Received From NORR 01/07/18	B	Acceptable to CI 26/06/18) Appro
010	ELV		26/06/2018	JCI/SVTCIR/EL/0049	Inspection of Camera field of view for level 17, 18, 19 & 20	26/06/2018	ALINO / JCI	27/06/2018	Before Time Column	27/06/2018	Witnessed	Received From NORR 01/07/18	B	Acceptable to CI 27/06/18) Appro
011	ELEC		26/06/2018	SV/T/CIR/EL/0908	Inspection for T&C (Live/Functionality) of DB/T1-2001, DB/T1-2002, DB/T1-2003, DB/T1-2004, DB/T1-2005, DB/T1-2006, DB/T1-2007 & its outgoing cables	26/06/2018	GURU / BILT	21/06/2018	Before Time Column	21/06/2018	Witnessed	Received From NORR 01/07/18	B	Acceptable to CI 27/06/18) Appro
012	ELV		26/06/2018	SV/T/CIR/EL/0909	Fluke Test of CAT-7 cable from IDF to all HCC & common area points in Tower 1, Level 14	26/06/2018	ATHUL / BILT	27/06/2018	Before Time Column	27/06/2018	Witnessed	Received From NORR 05/07/18	B	Acceptable to CI 02/07/18) Appro
013	ELV		26/06/2018	JCI/SVTCIR/EL/0050	Inspection of Camera field of view for level 28, 29, 30, 31, 33 & 34	27/06/2018	ALINO / JCI	27/06/2018	Before Time Column	27/06/2018	Witnessed	Received From NORR 01/07/18	B	Acceptable to CI 27/06/18) Appro
014	MECH		26/12/2017	SV/T/CIR/AC/0114	T&C of FCU (6 rooms) at Tower 1, Level 20.	26/12/2017	ALI / BILT	26/12/2017	Before Time Column	26/12/2017	Witnessed	Received From NORR 31/12/17	B	Acceptable to CI 27/12/17) Appro
015	ELEC		26/06/2018	SV/T/CIR/EL/0913	Inspection for witnessing of Equipotential bonding in Equipment in Tower-2, Level 16M	27/06/2018	VIPUL / BILT	26/06/2018	Before Time Column	26/06/2018	Witnessed	Received From NORR 01/07/18	B	Acceptable to CI 26/06/18) Annon

Figure 76: T/CIR Log

The TCIR Log provides upload option to upload a new TCIR document. On clicking ‘Upload’ button from the top left corner, a pop-up will be displayed prompting to input the T/CIR details as shown in the figure below.

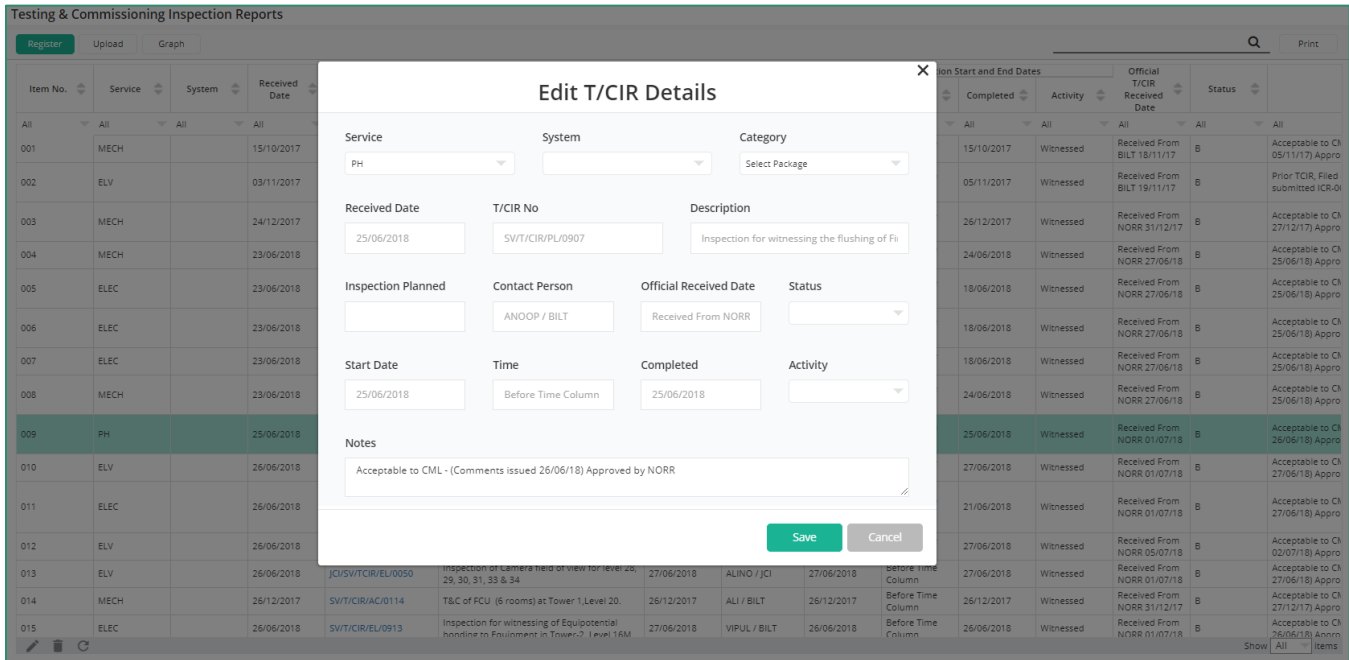
Upload T/CIR

Service	System	Category
<input type="text" value="Select Service"/>	<input type="text"/>	<input type="text"/>
Received Date	T/CIR No	Description
<input type="text"/>	<input type="text"/>	<input type="text"/>

Drop files to upload
(or click)

Figure 77: Upload T/CIR

To edit a T/CIR, the user needs to select the desired record and click on the edit icon at the bottom left of the page. Edit pop-up window will be displayed for the user to edit the details as shown in the figure below.



The screenshot displays the 'Testing & Commissioning Inspection Reports' interface. A pop-up window titled 'Edit T/CIR Details' is open, allowing users to modify the details of a specific inspection record. The pop-up includes the following fields:

- Service:** PH (dropdown)
- System:** (dropdown)
- Category:** Select Package (dropdown)
- Received Date:** 25/06/2018
- T/CIR No:** SVT/CIR/PL/0907
- Description:** Inspection for witnessing the flushing of Fil
- Inspection Planned:** (text input)
- Contact Person:** ANOOP / BILT
- Official Received Date:** Received From NORR
- Status:** (dropdown)
- Start Date:** 25/06/2018
- Time:** Before Time Column
- Completed:** 25/06/2018
- Activity:** (dropdown)
- Notes:** Acceptable to CML - (Comments issued 26/06/18) Approved by NORR

The background table shows a list of inspection reports with columns: Item No., Service, System, Received Date, Completed, Activity, Official T/CIR Received Date, Status, and a description column. The table is filtered to show records from 2017 and 2018.

Figure 78: Edit T/CIR Details

To delete a T/CIR record, the user must select the required record and click on the delete icon at the bottom left of the page.

To view or review the T/CIR document the user must click on a specific T/CIR number on the screen. On clicking the T/CIR number, the PDF file be displayed on the screen enabling the users to review it as shown in the figure below.

171118 BILT-SV-TC-AC-0034-R0_B.pdf

1 / 65

171118 BILT-SV-TC-AC-0034-R0_B.pdf

Turner SKY VIEW MAIN WORKS PACKAGE **NORR ACC Bilt**
INSPECTION REQUEST - T&C

Project: **THE ADDRESS RESIDENCE - SKY VIEW** Date: 15 / 10 / 2017
 Inspection Request No.: BILT-SV-TC-AC-0034 Rev. No.: 0 Engineer Project Number: 1300
 Date of Inspection: 16 / 10 / 2017 Time of Inspection: 10:30 AM

To: (Employer) **NORR** Attn: Mr. Nageeb / Thank / Fayed 15 OCT 2017
 From: ACC/BILT: Ryan / Rothenham By: [Signature] 17 OCT 2017

Discipline: Architectural Structural Electrical HVAC Plumbing MEP Other

Specification No.: 13117 Drawing No.: As Attached
 Material Submittal No.: SV-BILT-SV-TC-AC-0034-01 Method Statement No.: SV-BILT-SV-TC-AC-0034-01

Task: Start-up Specification Test Report Checklist Calibration & Testing Certificate

Location of Work: Tower - 01, Rooms No. 1801-213-215, 1801-218-219, 1801-212-213, 1804-217-08, 1801-214-218, 211, 1804-217-10, 1801-212-213, 1801-218-219, & 1801-214-211 (7 Rooms) at Tower 1, Level-08 as highlighted in the attached drawing.

Inspection for: **Witnessing the Testing and Commissioning of Fan Coil Unit for Rooms 1801-213-215, 1801-218-219, 1801-212-213, 1804-217-10, 1801-214-211 (7 Rooms) at Tower 1, Level-08 as highlighted in the attached drawing.**

IBR for Ref: BILT-SV-TC-AC-0034-01

CONFIRMATION OF CONTRACTOR'S QA/QC INSPECTION
 Certificate of compliance and compliance with Specifications, Approvals, and Quality Control Plan

T&C Engineer (A/E/Highly): Name: ARMANI M. Date: 15/10/2017
 HVAC Engineer (BILT): Name: VEEN. Date: 17/10/2017
 QA/QC Engineer (BILT): Name: STEPH. ALI. Date: 17/10/2017
 MEP Engineer (ACC): Name: NATINI. Date: 15/10/2017

Done Rec'd by Engineer: [Signature] Time: [Time]

B
 By: [Signature] [Date: 17 OCT 2017]
 Engineer Comment: [Handwritten notes in Arabic and English]
 REFER TO COMMENTS ON ATTACHED SHEET & REPORT
 COMPLY WITH ALL THE COMMENTS AND PROCEED PROGRESS WITH FURTHER ACTIONS
 MEASUREMENTS WERE FOUND IN FULLY OK - T&C-0034-01
 DURABLE INSPECTION, SHALL BE RECEIVED

Attachment: Attached sheet Photos [Other]
 Status: Approved Approved by the Client

C
 Done Rec'd by: [Signature] Date: 17 OCT 2017
 Copies: 01 Client 01 Contractor 01 Consultant 01 Authority 01 Other

Page 1 of 1 Form: DMERFD04 Rev: 01/2017

Figure 79: View T/CIR

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Revision History

The table below records the changes made to this document.

Version #	Date	Author	Note
1.0	20/01/2019	Jenevieve Catherine Dsouza	Initial Draft

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