



USER GUIDE FOR VALVE INTEGRITY MANAGEMENT SYSTEM (VIMS) WEB SOFTWARE

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1 INTRODUCTION

The purpose of this system is to provide a comprehensive system to handle Asset Register, IMR, Assessment, Tools with associated master modules and Reports. The system will integrate all modules for seamless user experience whilst maintaining a user-friendly interface. Users should update the information based on the given authorization. Additional features include adding, deleting, sorting, searching, and updating. Each user will have a role which consists of Facility Admin, Engineer and Viewer.



Figure 1-1 Main screen of Valve Integrity Management System (VIMS)

2 STANDARD NAVIGATION MENU

The Standard Navigation Menu consists of the following options and sub-options, arranged in a hierarchy of the menu and feature found in the Valve Integrity Management System (VIMS).

Table 2-1 Hierarchy of the menu and feature


#	Main Menu	Reference
1.0	Home	Home screen will show the dashboard with a risk distribution graph.
2.0	Asset Register	
2.1	└ Area	One time data entry of Area details will be maintained here.



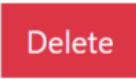

#	Main Menu	Reference
2.3	└ Platform	One time data entry of Platform details will be maintained here.
2.4	└ Asset	Asset details will be stored here.
3.0	IMR	
3.1	└ Inspection	Periodical Inspection details will be stored as per the Area and Platform.
3.2	└ Maintenance	Periodical Maintenance details will be stored as per the Area and Platform.
4.0	Assessment	Formulated assessment details will be maintained here.
5.0	Tools	
5.1	└ Import Asset Register	Bulk upload option to be established to register asset details.
5.2	└ Import Inspection/Maintenance	Importing a bunch of Inspection or Maintenance data can be uploaded here.
5.3	└ Import Assessment	Import Assessment details into DB.
6.0	User	User profile can be maintained.
7.0	Help	User Manual.

3 STANDARD GRAPHICAL MENU BUTTON

The following are brief descriptions, with examples of function and illustrations, of the menu and feature buttons found in the Valve Integrity Management System (VIMS).

Table 3-1 Menu and feature buttons

Button	Description
	Name: Add Details: Allows the user to enter new information into the database.

Button	Description
	Name: Edit Details: Allows the user to edit existing information in the database.
	Name: Save Details: Allows the user to save the new info or update the modified information into the database.
	Name: Delete Details: Allows the user to delete existing information from the database.
	Name: Cancel Details: Allows the user to clear the data fields and close the popup screen.

4 USER GUIDE

4.1 Login Page

To access the main page of the VIMS application, users are required to log in using the account that has been registered in this application. Here are the steps:

- Open the following Address in your browser: <https://dev-twi.tech/vims/>
- Enter your Email and Password
- Click the Login button




Figure 4-1 Login Page

If the Email and Password entered do not match, an Invalid email or password message will be displayed as shown below:

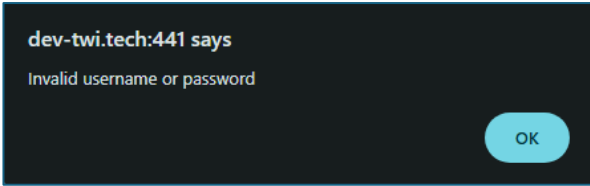


Figure 4-2 Login with Invalid Message

And if successful, it will move to the Home page as in the next point.

4.2 Layout

VIMS application uses a Layout consisting of Header, Sidebar, and Content.

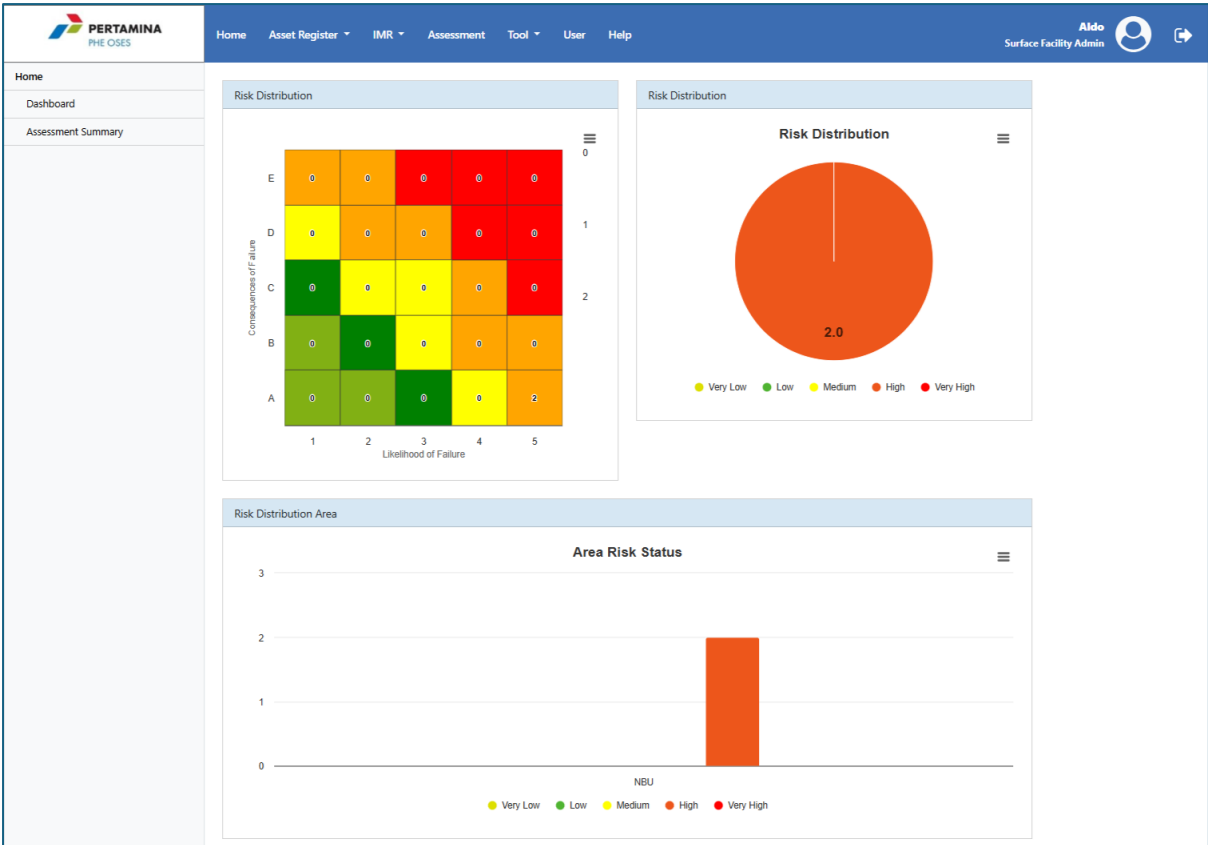


Figure 4-3 Layout VIMS

Header

This section displays the Logo, Top Menu and User Login

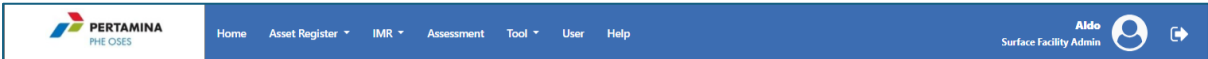


Figure 4-4 Header Layout

Sidebar

This section displays Sub from the Top Menu, or Asset Tree.

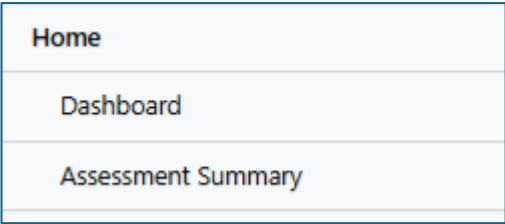


Figure 4-5 Sidebar Layout

Content

This section displays Pages based on the selected Menu, for example displaying the Dashboard.

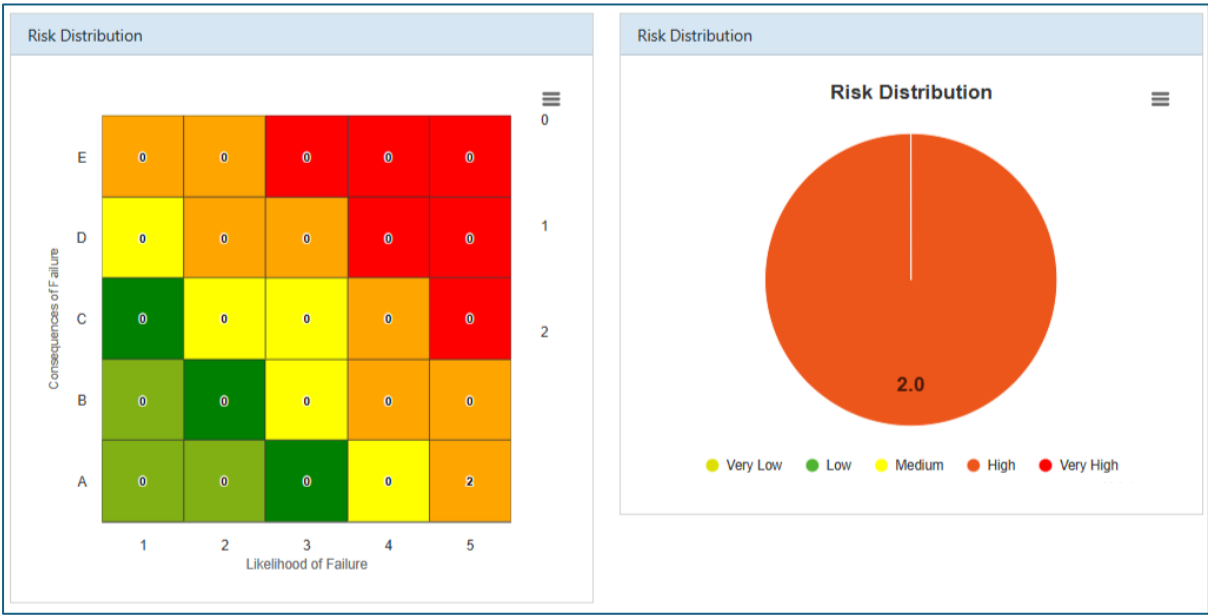


Figure 4-6 Content Layout

5 HOME

Home consists of two sub menus, namely Dashboard and Assessment Summary.

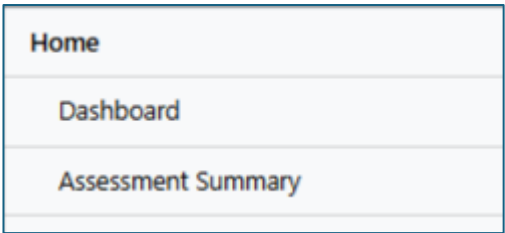


Figure 5-1 Home Submenu

5.1 Dashboard

The dashboard will display several charts including the Risk Distribution Matrix, Pie Chart Risk Distribution and Bar Chart Area Risk Status.

Matrix Risk Distribution

This section displays the number of Assets based on Risk Status

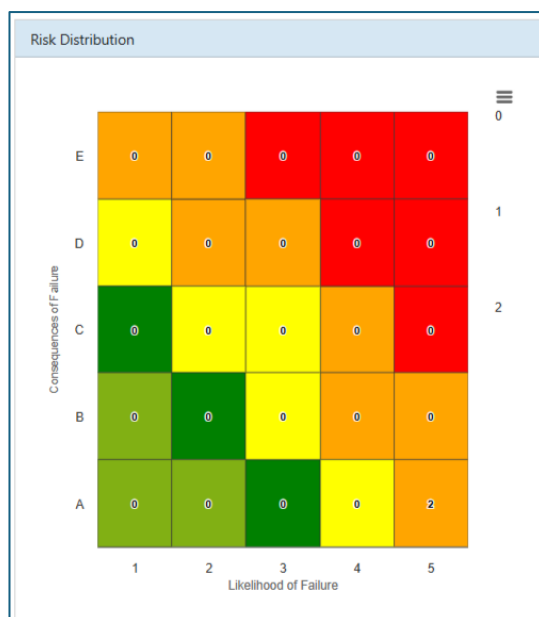


Figure 5-2 Matrix Risk Distribution

- Pie Chart Risk Distribution

This section displays the percentage of assets based on their Risk Category to the total assets.

- Area Risk Status

This section displays the number of assets per Area based on its Risk Category.

5.2 Assessment Summary

Asset Summary displays the Last Assessment Results for existing Assets.

Assessment												
All Area ▾		All Platform ▾		Q Filter		Export to Excel		Q Search				
No	Tag No	Business Area	Platform	Value Type	Size (inch)	Rating	PnID Number	Parent Equipment No	Last Inspection Date	Risk Status	Time To Action	Detail
1	WIB-PSV-V05A-4	NBU	AIDA-A	Air Release Valve	12	155	PID 2	P123	14-06-2022	5A	12-06-2022	Assessment Inspection Maintenance
2	WIB-PSV-V05A-41	NBU	AIDA-A	Air Release Valve	10	150	CIC-11012	PL-518-A-12	No inspection history		No assessment history	Assessment Inspection Maintenance
3	WIB-PSV-V05A-43	NBU	AIDA-A	Air Release Valve	10	150	CIC-11012	PL-518-A-12	No inspection history		No assessment history	Assessment Inspection Maintenance
4	WIB-PSV-V05A-44	NBU	AIDA-A	Air Release Valve	10	150	CIC-11012	PL-518-A-12	No inspection history		No assessment history	Assessment Inspection Maintenance
5	e-001	CBU	test001	Air Release Valve	10	1	1	1	29-04-2024		No assessment history	Assessment Inspection Maintenance

Figure 5-3 Assessment Summary

There are several features in this section, including:

- Filter by Area and Platform

All Area ▾

All Platform ▾

Q Filter

Figure 5-4 Assessment Summary Filter by Area and Platform

- Quick Search

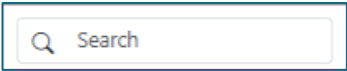


Figure 5-5 Assessment Summary Quick Search

- Export to Excel

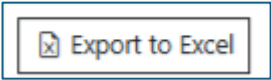


Figure 5-6 Assessment Summary Export to Excel

- Quick Access to the Assessment, Inspection, and Maintenance page for the selected Asset in the Details column.

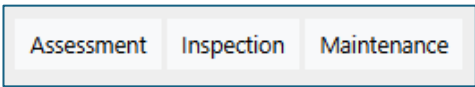


Figure 5-7 Assessment Summary Quick Access

6 ASSET REGISTER

Asset register module facilitates the initial data feeding into the database. It is able to store the Area, Platform and Asset information. These are all the one-time data entry into the database. Asset Register consists of 3 submenus, namely Area, Platform, and Asset.

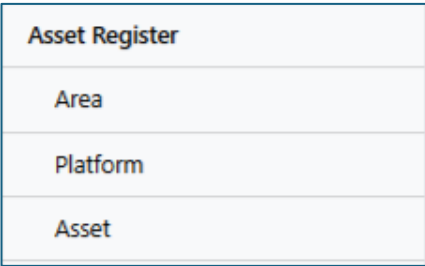


Figure 6-1 Asset Register Submenu

6.1 Area

The Area master is maintaining the unique details about the business area. This section is used to display and perform data manipulation Areas such as Add New, Edit, and Delete.

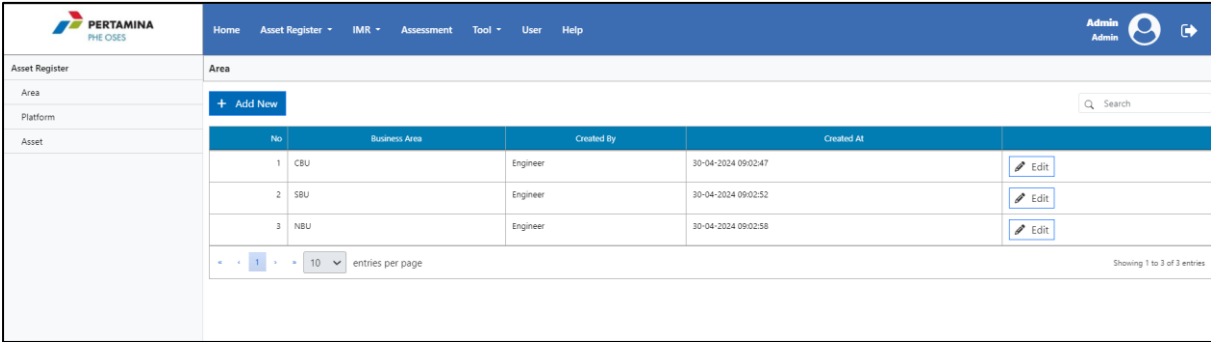


Figure 6-2 Area screen of Valve Integrity Management System (VIMS)

6.1.1 Area List

This section is used to display the Area list.

Area				
+ Add New		<input type="text" value="Search"/>		
No	Business Area	Created By	Created At	
1	CBU	Engineer	30-04-2024 09:02:47	Edit
2	SBU	Engineer	30-04-2024 09:02:52	Edit
3	NBU	Engineer	30-04-2024 09:02:58	Edit
« 1 » <input type="text" value="10"/> entries per page				Showing 1 to 3 of 3 entries

Figure 6-3 Area List

There is a Quick Search feature to find the searched area based on the query inputted.

Area				
+ Add New		<input type="text" value="sbu"/>		
No	Business Area	Created By	Created At	
2	SBU	Engineer	30-04-2024 09:02:52	Edit
« 1 » <input type="text" value="10"/> entries per page				Showing 1 to 1 of 1 entry (filtered from 3 total entries)

Figure 6-4 Area Quick Search

6.1.2 Add Area

This section is used to add a new area with the following steps:

- Click the Add New button.



Figure 6-5 Area Add New Button

- Input data in the dialog box that appears.

Add/Edit New Area

Business Area Name

New Area

Save

Cancel

Figure 6-6 Area Add New Form

- Click the Save button. The added data will be displayed in the area list.

6.1.3 Edit Area

This section is used to edit existing data, with the following steps:

- Click the Edit button on the data you want to change.

4	New Area	TWI	01-05-2024 20:23:37	<div>Edit</div>
---	----------	-----	---------------------	-----------------

Figure 6-7 Area Edit Data

- In the dialog box that appears, change the data as desired.

Add/Edit New Area

Business Area Name

New Area Edited

Delete

Save

Cancel

Figure 6-8 Area Edit Form

- Click the Save button. The changed data will be displayed in the area list.

6.1.4 Delete Area

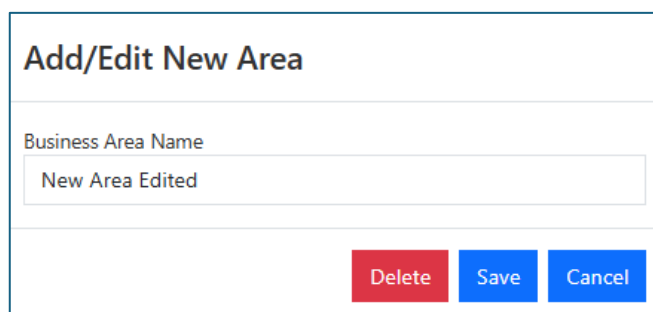
This section is used to delete existing data, with the following steps:

- Click the Edit button on the data you want to delete.

4	New Area	TWI	01-05-2024 20:23:37	<div>Edit</div>
---	----------	-----	---------------------	-----------------

Figure 6-9 Area Delete Data

- In the dialog box that appears, click Delete button.



Add/Edit New Area

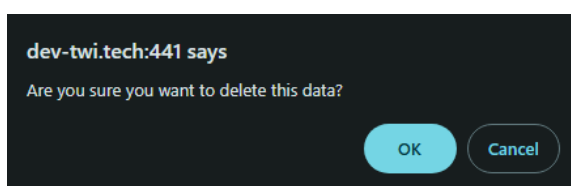
Business Area Name

New Area Edited

Delete Save Cancel

Figure 6-10 Area Delete Form

- A Confirmation Box will be displayed. Click the OK button to continue. Data that has been deleted will disappear from the area list.



dev-twi.tech:441 says

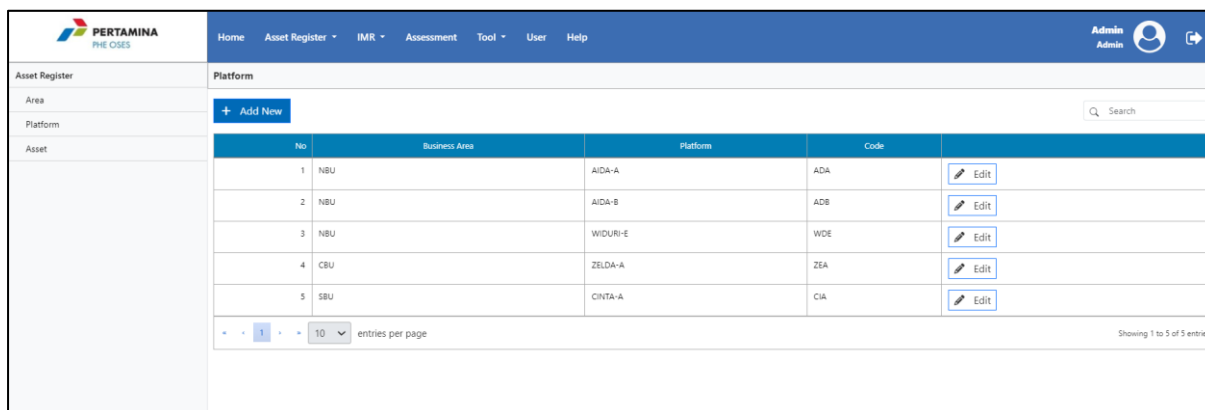
Are you sure you want to delete this data?

OK Cancel

Figure 6-11 Area Delete Confirmation Box

6.2 Platform

It is able to store the Platform information. Each platform is linked with a specific Area with unique Code. One area can have multiple platforms. This section is used to display and perform data manipulation Platforms such as Add New, Edit, and Delete.



No	Business Area	Platform	Code	
1	NBU	AIDA-A	ADA	Edit
2	NBU	AIDA-B	ADB	Edit
3	NBU	WIDURI-E	WDE	Edit
4	CBU	ZELDA-A	ZEA	Edit
5	SBU	CINTA-A	CIA	Edit

Showing 1 to 5 of 5 entries

Figure 6-12 Platform screen of Valve Integrity Management System (VIMS)

6.2.1 Platform List

This section is used to display the Platform list.

Platform				
+ Add New		<input type="text" value="Search"/>		
No	Business Area	Platform	Code	
1	NBU	AIDA-A	ADA	Edit
2	NBU	AIDA-B	ADB	Edit
3	NBU	WIDURI-E	WDE	Edit
4	CBU	platform 1	1Pa	Edit
< < 1 > > 10 entries per page				Showing 1 to 4 of 4 entries

Figure 6-13 Platform List

There is a Quick Search feature to find the searched platform based on the query inputted.

Platform				
+ Add New		<input type="text" value="platform"/>		
No	Business Area	Platform	Code	
4	CBU	platform 1	1Pa	Edit
< < 1 > > 10 entries per page				Showing 1 to 1 of 1 entry (filtered from 4 total entries)

Figure 6-14 Platform Quick Search

6.2.2 Add Platform

This section is used to add a new platform with the following steps:

- Click the Add New button.



Figure 6-15 Platform Add New Button

- Input data in the dialog box that appears.

Add/Edit New Platform

Business Area

Platform Name

Platform Code

Figure 6-16 Platform Add New Form

- Click the Save button. The added data will be displayed in the platform list.

6.2.3 Edit Platform

This section is used to edit existing data, with the following steps:

- Click the Edit button on the data you want to change.

5	NBU	New Platform	NP	 Edit
---	-----	--------------	----	--

Figure 6-17 Platform Edit Data

- In the dialog box that appears, change the data as desired.

Add/Edit New Platform

Business Area

NBU

Platform Name

New Platform

Platform Code

NP

Delete

Save

Cancel

Figure 6-18 Platform Edit Form

- Click the Save button. The changed data will be displayed in the platform list.

6.2.4 Delete Platform

This section is used to delete existing data, with the following steps:

- Click the Edit button on the data you want to delete.

5	NBU	New Platform	NP	 Edit
---	-----	--------------	----	--

Figure 6-19 Platform Delete Data

- In the dialog box that appears, click Delete button.

Add/Edit New Platform

Business Area

NBU

Platform Name

New Platform

Platform Code

NP

Delete

Save

Cancel

Figure 6-20 Platform Delete Form

- A Confirmation Box will be displayed. Click the OK button to continue. Data that has been deleted will disappear from the platform list.

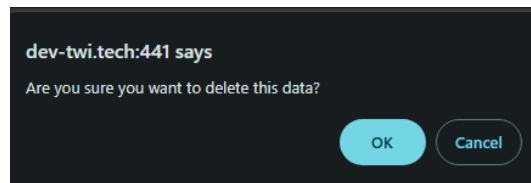


Figure 6-21 Platform Delete Confirmation Box

6.3 Asset

It is able to store the Asset information. Each Asset is linked with a specific Platform with unique Code. One Platform can have multiple assets. The details are categorized in to three levels such as Asset Information, Material Value and Operation & Fluid details as well. This section is used to display and perform data manipulation Assets such as Add New, Edit, and Delete.

<div> <div> Home Asset Register IMR Assessment Tool User Help </div> <div> Admin Admin </div> </div>																																																																																															
Asset Register		Asset																																																																																													
Area		<div>+ Add New</div> <div>Search</div>																																																																																													
Platform																																																																																															
Asset		<table> <tr> <th>No</th><th>Tag No</th><th>Business Area</th><th>Platform</th><th>Valve Type</th><th>Size (inch)</th><th>Rating</th><th>PID Number</th><th>Parent Equipment No</th><th>Parent Equipment Description</th><th>Service Fluid</th><th></th></tr> <tr> <td>1</td><td>WIB-PSV-V05A-4</td><td>NBU</td><td>AIDA-A</td><td>Air Release Valve</td><td>12</td><td>155</td><td>PID 2</td><td>P123</td><td>Just Desc</td><td>UNKNOWN</td><td>Edit</td></tr> <tr> <td>2</td><td>WIB-PSV-V05A-41</td><td>NBU</td><td>AIDA-A</td><td>Air Release Valve</td><td>10</td><td>150</td><td>CIC-11012</td><td>PL-518-A-12</td><td>COTP Line</td><td>Waste Gas</td><td>Edit</td></tr> <tr> <td>3</td><td>WIB-PSV-V05A-43</td><td>NBU</td><td>AIDA-A</td><td>Air Release Valve</td><td>10</td><td>150</td><td>CIC-11012</td><td>PL-518-A-12</td><td>COTP Line</td><td>Waste Gas</td><td>Edit</td></tr> <tr> <td>4</td><td>WIB-PSV-V05A-44</td><td>NBU</td><td>AIDA-A</td><td>Air Release Valve</td><td>10</td><td>150</td><td>CIC-11012</td><td>PL-518-A-12</td><td>COTP Line</td><td>Waste Gas</td><td>Edit</td></tr> <tr> <td>5</td><td>WIE-LCV-5</td><td>NBU</td><td>WIDURI-E</td><td>Level Control Valve</td><td>2</td><td>600</td><td>WIE-11001 P2</td><td>PL-102-D-4</td><td>Oil Level Control Valve outlet Test Separator V-01 (LCV-1)</td><td>Crude Oil</td><td>Edit</td></tr> <tr> <td>6</td><td>WIE-LCV-1</td><td>NBU</td><td>WIDURI-E</td><td>Level Control Valve</td><td>2</td><td>600</td><td>WIE-11001 P2</td><td>PL-102-D-4</td><td>Oil Level Control Valve outlet Test Separator V-01 (LCV-1)</td><td>Crude Oil</td><td>Edit</td></tr> </table> <div> <div>1</div> <div>10</div> <div>entries per page</div> </div> <div>Showing 1 to 6 of 6 entries</div>										No	Tag No	Business Area	Platform	Valve Type	Size (inch)	Rating	PID Number	Parent Equipment No	Parent Equipment Description	Service Fluid		1	WIB-PSV-V05A-4	NBU	AIDA-A	Air Release Valve	12	155	PID 2	P123	Just Desc	UNKNOWN	Edit	2	WIB-PSV-V05A-41	NBU	AIDA-A	Air Release Valve	10	150	CIC-11012	PL-518-A-12	COTP Line	Waste Gas	Edit	3	WIB-PSV-V05A-43	NBU	AIDA-A	Air Release Valve	10	150	CIC-11012	PL-518-A-12	COTP Line	Waste Gas	Edit	4	WIB-PSV-V05A-44	NBU	AIDA-A	Air Release Valve	10	150	CIC-11012	PL-518-A-12	COTP Line	Waste Gas	Edit	5	WIE-LCV-5	NBU	WIDURI-E	Level Control Valve	2	600	WIE-11001 P2	PL-102-D-4	Oil Level Control Valve outlet Test Separator V-01 (LCV-1)	Crude Oil	Edit	6	WIE-LCV-1	NBU	WIDURI-E	Level Control Valve	2	600	WIE-11001 P2	PL-102-D-4	Oil Level Control Valve outlet Test Separator V-01 (LCV-1)	Crude Oil	Edit
No	Tag No	Business Area	Platform	Valve Type	Size (inch)	Rating	PID Number	Parent Equipment No	Parent Equipment Description	Service Fluid																																																																																					
1	WIB-PSV-V05A-4	NBU	AIDA-A	Air Release Valve	12	155	PID 2	P123	Just Desc	UNKNOWN	Edit																																																																																				
2	WIB-PSV-V05A-41	NBU	AIDA-A	Air Release Valve	10	150	CIC-11012	PL-518-A-12	COTP Line	Waste Gas	Edit																																																																																				
3	WIB-PSV-V05A-43	NBU	AIDA-A	Air Release Valve	10	150	CIC-11012	PL-518-A-12	COTP Line	Waste Gas	Edit																																																																																				
4	WIB-PSV-V05A-44	NBU	AIDA-A	Air Release Valve	10	150	CIC-11012	PL-518-A-12	COTP Line	Waste Gas	Edit																																																																																				
5	WIE-LCV-5	NBU	WIDURI-E	Level Control Valve	2	600	WIE-11001 P2	PL-102-D-4	Oil Level Control Valve outlet Test Separator V-01 (LCV-1)	Crude Oil	Edit																																																																																				
6	WIE-LCV-1	NBU	WIDURI-E	Level Control Valve	2	600	WIE-11001 P2	PL-102-D-4	Oil Level Control Valve outlet Test Separator V-01 (LCV-1)	Crude Oil	Edit																																																																																				

Figure 6-22 Asset screen of Valve Integrity Management System (VIMS)

6.3.1 Asset List

This section is used to display the Asset list.

Asset											
		<div>+ Add New</div> <div>Search</div>									
No	Tag No	Business Area	Platform	Valve Type	Size (inch)	Rating	PID Number	Parent Equipment No	Parent Equipment Description	Service Fluid	
1	WIB-PSV-V05A-4	NBU	AIDA-A	Air Release Valve	12	155	PID 2	P123	Just Desc	UNKNOWN	Edit
2	WIB-PSV-V05A-41	NBU	AIDA-A	Air Release Valve	10	150	CIC-11012	PL-518-A-12	COTP Line	Waste Gas	Edit
3	WIB-PSV-V05A-43	NBU	AIDA-A	Air Release Valve	10	150	CIC-11012	PL-518-A-12	COTP Line	Waste Gas	Edit
4	WIB-PSV-V05A-44	NBU	AIDA-A	Air Release Valve	10	150	CIC-11012	PL-518-A-12	COTP Line	Waste Gas	Edit
5	WIE-LCV-5	NBU	WIDURI-E	Level Control Valve	2	600	WIE-11001 P2	PL-102-D-4	Oil Level Control Valve outlet Test Separator V-01 (LCV-1)	Crude Oil	Edit
6	XX1Asset	NBU	AIDA-A	Check Valve	10	A	PID	A	A	1	Edit
7	WIE-LCV-1	NBU	WIDURI-E								Edit
<div> <div>1</div> <div>10</div> <div>entries per page</div> </div> <div>Showing 1 to 7 of 7 entries</div>											

Figure 6-23 Asset List

There is a Quick Search feature to find the searched asset based on the query inputted.

Asset											
+ Add New										Q WIB-PSV-V05A-41	
No	Tag No	Business Area	Platform	Valve Type	Size (inch)	Rating	PID Number	Parent Equipment No	Parent Equipment Description	Service Fluid	
2	WIB-PSV-V05A-41	NBU	AIDA-A	Air Release Valve	10	150	CIC-11012	PL-518-A-12	COTP Line	Waste Gas	Edit
< < 1 > > 10 entries per page Showing 1 to 1 of 1 entry (filtered from 7 total entries)											

Figure 6-24 Asset Quick Search

6.3.2 Add Asset

This section is used to add a new asset with the following steps:

- Click the Add New button.

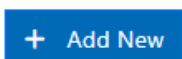


Figure 6-25 Asset Add New Button

- Input data in the dialog box that appears.
The user can create new assets with necessary fields. Asset Information is categorized as a fundamental detail of the Asset. The platform can be displayed to choose from drop down. The Tag No is to uniquely identify the asset.

Asset Information	
Asset ID <input type="text"/>	Class Rating <input type="text"/>
Tag No <input type="text"/>	Parent Equipment No <input type="text"/>
Platform Select Platform <input type="button" value="v"/>	Parent Equipment Description <input type="text"/>
Valve Type Select Valve Type <input type="button" value="v"/>	Installation Date <input type="text"/>
Size (inch) <input type="text"/>	PID Number <input type="text"/>

Figure 6-26 Add Asset Info Form

The Material value will be stored as part of the Asset details. There is an option to choose the Manual Override detail from the drop down.

Material Value

Manufacturer

Manual Override

Select Manual Override

Body Model

Actuator Mfg

Body Material

Actuator Serial No.

End Connection

Actuator Type/Model

Serial No

Actuator Power

Figure 6-27 Add Asset Material Value Form

Operation & Fluid

Operating Temperature (F)

Service Fluid

Operating Pressure (Psig)

Fluid Phase

Select Fluid Phase

Flow Rate (m3/hr)

Toxic or Flamable Fluid

Select Toxic or Flamable Fluid

Figure 6-28 Add Asset Operation & Fluid Form

- Click the Save button. The added data will be displayed in the asset list.

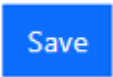


Figure 6-29 Add Asset Save Button

6.3.3 Edit Asset

This section is used to edit existing data, with the following steps:

- Click the Edit button on the data you want to change.

8	AIDA-A-001-NEW	NBU	AIDA-A	Air Release Valve	10	A	PID-0001	AIDA-A-001	-	-	 Edit
---	----------------	-----	--------	-------------------	----	---	----------	------------	---	---	--

Figure 6-30 Asset Edit Data

- In the dialog box that appears, change the data as desired.

Add/Edit Asset	
Asset Information	
Asset ID 56	Class Rating A
Tag No AIDA-A-001-NEW	Parent Equipment No AIDA-A-001
Platform NBU: AIDA-A	Parent Equipment Description -
Valve Type Air Release Valve	Installation Date 01-05-2019
Size (inch) 10	PID Number PID-0001
Material Value	
Manufacturer -	Manual Override Yes
Body Model -	Actuator Mfg -
Body Material -	Actuator Serial No. -
End Connection -	Actuator Type/Model -
Serial No -	Actuator Power -
Operation & Fluid	
Operating Temperature (F) 100	Service Fluid -
Operating Pressure (Psig) 100	Fluid Phase Liquid
Flow Rate (m3/hr) 100	Toxic or Flammable Fluid Yes
<div> Delete Save Cancel </div>	

Figure 6-31 Asset Edit Form

- Click the Save button. The changed data will be displayed in the asset list.

6.3.4 Delete Asset

This section is used to delete existing data, with the following steps:

- Click the Edit button on the data you want to delete.

8	AIDA-A-001-NEW	NBU	AIDA-A	Air Release Valve	10	A	PID-0001	AIDA-A-001	-	-	Edit
---	----------------	-----	--------	-------------------	----	---	----------	------------	---	---	------

Figure 6-32 Asset Delete Data

- In the dialog box that appears, click Delete button.

Add/Edit Asset	
Asset Information	
Asset ID 56	Class Rating A
Tag No AIDA-A-001-NEW	Parent Equipment No AIDA-A-001
Platform NBU: AIDA-A	Parent Equipment Description -
Valve Type Air Release Valve	Installation Date 01-05-2019
Size (inch) 10	PID Number PID-0001
Material Value	
Manufacturer -	Manual Override Yes
Body Model -	Actuator Mfg -
Body Material -	Actuator Serial No. -
End Connection -	Actuator Type/Model -
Serial No -	Actuator Power -
Operation & Fluid	
Operating Temperature (F) 100	Service Fluid -
Operating Pressure (Psig) 100	Fluid Phase Liquid
Flow Rate (m3/hr) 100	Toxic or Flammable Fluid Yes
<div> Delete Save Cancel </div>	

Figure 6-33 Asset Delete Form

- A Confirmation Box will be displayed. Click the OK button to continue. Data that has been deleted will disappear from the asset list.

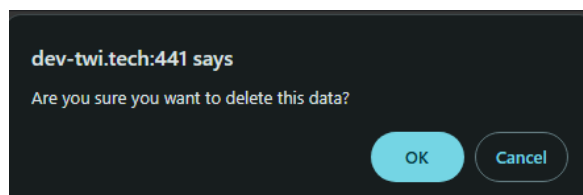


Figure 6-34 Asset Delete Confirmation Box

7 INSPECTION MAINTENANCE RECORD (IMR)

IMR menu is handling the Inspection and Maintenance details of Assets. Each detail is directly connected with Risk Assessment and Risk matrix. IMR consists of 2 submenus, namely Inspection and Maintenance.

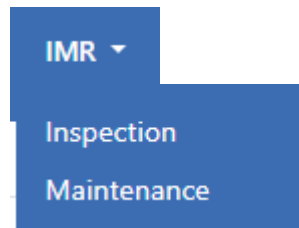


Figure 7-1 IMR Submenus

7.1 Inspection

This section is used to display and perform data manipulation Inspections such as Add New, Edit, and Delete. From the IMR menu item, Click the Inspection link to open the module.

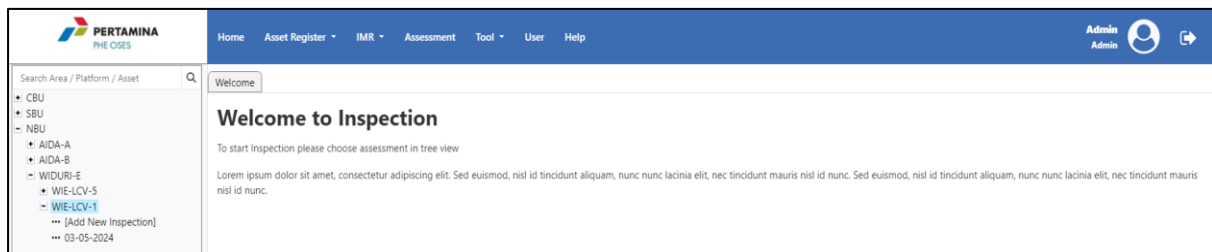


Figure 7-2 Inspection Screen

7.1.1 Inspection List

Inspection data is displayed in a Tree List.

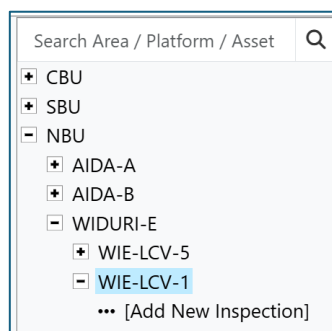


Figure 7-3 Inspection Tree List

7.1.2 Add Inspection

This section is used to add a new inspection with the following steps:

- Open Tree Asset and find the Asset to be added, or input the Query Asset you are looking for in the Search Area / Platform / Asset column and click [Add New Inspection] on the Asset Tree.

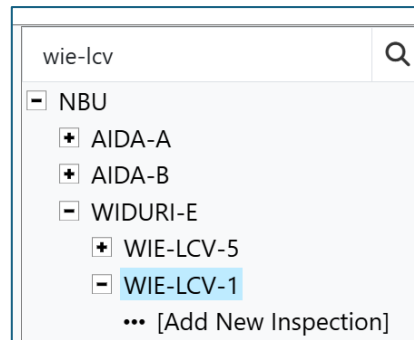


Figure 7-4 Add New Inspection

- There are two portions of details listed in the inspection module. The top portion is related to Asset Information which is not editable. The bottom portion is related to inspection information. **New Inspection WIE-LCV-1** - Tab name shown to enter new inspection data associated with WIE-LCV-1 assets. The form will be displayed in tabbed form. Fill in the form then click the Save button.

Home Asset Register ▾ IMR ▾ Assessment Tool ▾ User Help			
Welcome New Inspection WIE-LCV-1 ✕			
Asset Information			
Asset ID	54	Valve Type	Level Control Valve
Tag No	WIE-LCV-1	Manufacturer	FISHER
Body Material	WCB	Business Area	NBU
Body Model	Globe	Platform	WIDURI-E
End Connection	RF	Parent Equipment No.	PL-102-D-4
Serial No.	N/A	Parent Equipment Description	Oil Level Control Valve outlet Test Separator V-01 (LCV-1)
Installation Date	01-01-2007	Size (inch)	2
PID No	WIE-11001 P2	Class Rating	600

Figure 7-5 Asset Information Form Inspection (Top Portion)

The screenshot displays the bottom portion of the 'Add New Inspection Form'. It features a light gray header with the title 'Inspection Information'. Below the header, the form is organized into two columns. The left column contains fields for 'Valve Tag No' (with a pre-filled value 'WIE-LCV-1'), 'Inspection Date', 'Inspection Method' (a dropdown menu showing 'Visual Inspection'), 'Inspection Effectiveness' (a dropdown menu showing 'Highly Effective'), and a large 'Inspection Description' text area. The right column contains three dropdown menus for 'Current Condition' (with values 'Leakage to Atmosphere', 'Failure of Function', and 'Passing Across Valve'), each with 'Good' selected. Below these are fields for 'Function Condition' and 'Test Pressure if Any'. At the bottom right, there is an 'Inspection Image' section with a placeholder icon showing a document with a plus sign. A blue 'Save' button is located at the bottom left of the form.

Figure 7-6 Add New Inspection Form (Bottom Portion)

- Valve Tag No.: Will be an uneditable field. It represents the Asset with unique number.
 - Inspection Method: can be chosen from drop down as Visual Inspection/Ultrasonic Testing Inspection/Radiography Test.
 - Inspection Effectiveness is having the option to choose as Highly Effective/Usually Effective/Fairly Effective/Ineffective.
 - Current Condition Leakage to Atmosphere is having option to choose Good/Fair/Poor.
 - Current Condition Failure of function can be chosen from drop down as Good/Fair/Poor.
 - Current Condition Passing Across Valve is choosing as Good/Fair/Poor.
 - Inspection Images can be uploaded into system as much as possible.
- A successfully saved data message is displayed.

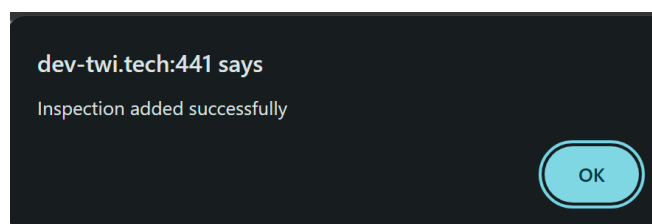


Figure 7-7 Inspection Added Successfully Message

- The new data will be displayed in the inspection tree.

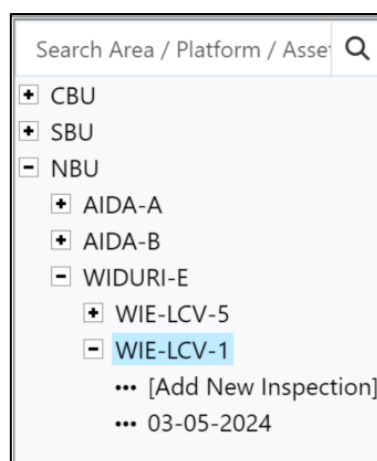


Figure 7-8 Saved Data in Inspection Tree

7.1.3 Edit Inspection

This section is used to edit existing data, with the following steps:

- Open Tree Asset and find the Asset to be edit, or input the Query Asset you are looking for in the Search Area / Platform / Asset column and click Inspection Date on the Asset Tree.

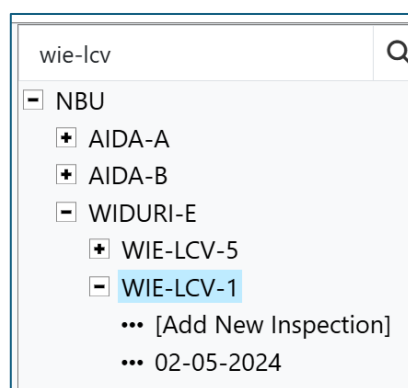


Figure 7-9 Edit Inspection

- The form will be displayed in tab then change the data as desired then click the Save button.

WelcomeWIE-LCV-1 02-05-2024 X

Asset Information

Asset ID	54	Valve Type	
Tag No	WIE-LCV-1	Manufacturer	
Body Material		Business Area	NBU
Body Model		Platform	WIDURI-E
End Connection		Parent Equipment No.	
Serial No.		Parent Equipment Description	
Installation Date		Size (inch)	
PID No		Class Rating	

Inspection Information

Valve Tag No	WIE-LCV-1	Current Condition Leakage to Atmosphere	Good
Inspection Date	02-05-2024	Current Condition Failure of Function	Good
Inspection Method	Visual Inspection	Current Condition Passing Across Valve	Good
Inspection Effectiveness	Highly Effective	Function Condition	xx
Inspection Description	<div></div>		
	Test Pressure if Any	<div></div>	
	Inspection Image	<div></div>	

Save

Print

Delete

Figure 7-10 Edit Inspection Form

- A successfully saved data message is displayed.

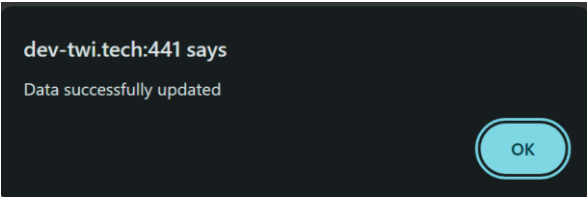


Figure 7-11 Inspection Update Successfully Message

- The changed data will be displayed in the inspection tree.

7.1.4 Delete Inspection

This section is used to delete existing data, with the following steps:

- Open Tree Asset and find the Asset to be edit, or input the Query Asset you are looking for in the Seach Area / Platform / Asset column and click Inspection Date on the Asset Tree.

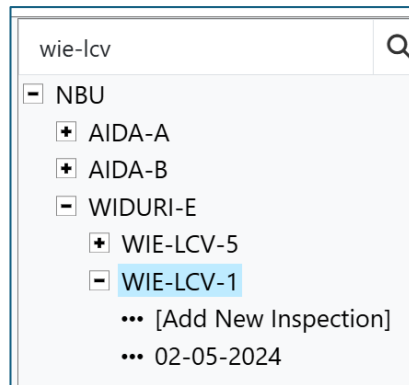


Figure 7-12 Delete Inspection

- The form will be displayed in tab then click the Delete button.

Figure 7-13 Delete Inspection Form

- A Confirmation Box will be displayed. Click the OK button to continue.

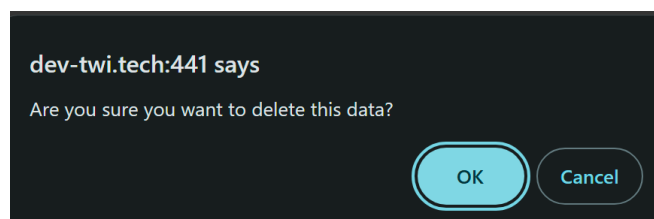


Figure 7-14 Delete Inspection Confirmation Box

- A successfully deleted data message is displayed.

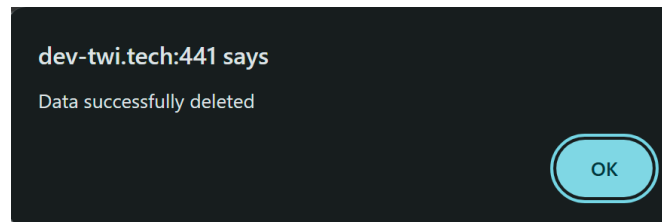


Figure 7-15 Delete Inspection Successfully Message

- The data will be removed from the inspection tree.

7.1.5 Print Inspection

The user can print the Inspection by clicking the date link in the tree view based on Area/Platform and Asset. Then click the print button, the inspection information will show up on the new window.



Figure 7-16 Print Inspection Button

Valve Inspection			
No. Number	WIE-LCV-1	Date	28-04-2022
Business Area	NBU		
Platform	WIDUR-E	Valve Type	Level Control Valve
VALVE INFORMATION		PROCESS INFORMATION	
PSID Number	WIE-11001 P2	Operating Pressure (Pkg)	1440
Parent Equipment No.	PL-102-D-4	Operating Temperature (F)	100
Parent Equipment Desc.	Oil Level Control Valve outlet Test Separator V-01 (LCV-1)	Service Fluid	Crude Oil
Size (Inch)	2	Fluid Phase	Liquid
Class Rating	600	Toxic or Flammable Fluid	Yes
Installation Date	1/1/2007 12:00:00AM	Actuation	
Manufacturer	FOSTER	Pneumatic	<input type="checkbox"/>
Body Material	WC6	Hydraulic	<input type="checkbox"/>
Remaining Life	-----	Manual Override	<input type="checkbox"/>
Approx. cost of replacement and repair (USD)	-	Usage Type	
VALVE INSPECTION		Manual valve	<input type="checkbox"/>
Inspection Method	Visual Inspection	Auto On-Off Valve	<input type="checkbox"/>
Inspection Effectiveness	Ineffective	Control Valve	<input type="checkbox"/>
Inspection Description	Packing Leak Bonnet Corroded Bonnet Gasket Worn Valve Body Corroded Valve Trim Worn Body Bolts & Nuts Corroded External Condition Corroded Sasis Worn	PSV/PRV	<input type="checkbox"/>
Functional Condition	Packing Leak	Status	
Test Pressure If Any		In-service	<input type="checkbox"/>
Inspection Image		Waiting for Refurbishment	<input type="checkbox"/>
Current Condition Leakage To Atmosphere	Minor	Spare	<input type="checkbox"/>
Current Condition Failure of Function	Good		
Current Condition Reading Across Valve	Good		

Figure 7-17 Print Inspection Information

7.2 Maintenance

This section is used to display and perform data manipulation Maintenances such as Add New, Edit, and Delete. From the IMR menu item, Click the Maintenance link to open the module.

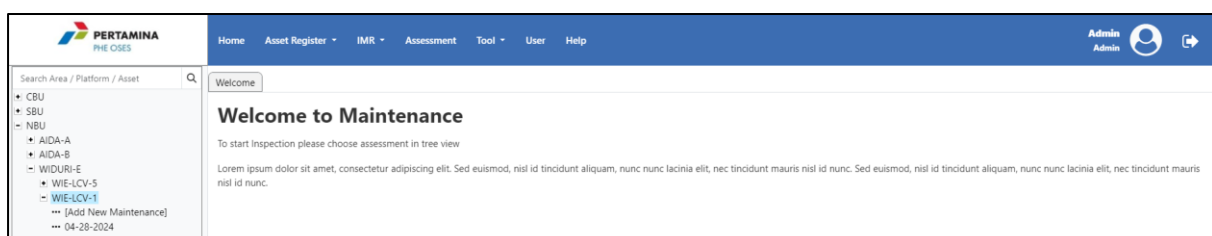


Figure 7-18 Maintenance Screen

7.2.1 Maintenance List

Maintenance data is displayed in a Tree List.

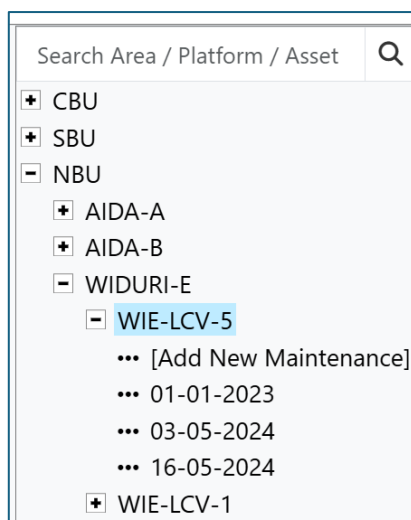


Figure 7-19 Maintenance Tree List

7.2.2 Add Maintenance

This section is used to add a new maintenance with the following steps:

- Open Tree Asset and find the Asset to be added, or input the Query Asset you are looking for in the Search Area / Platform / Asset column and click [Add New Maintenance] on the Asset Tree.

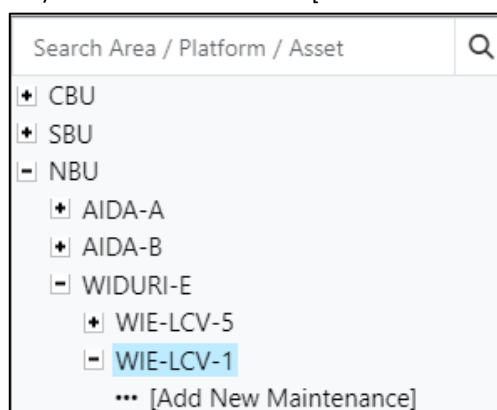


Figure 7-20 Add New Maintenance

- There are two portions of details listed in the Maintenance module. The top portion is related to Asset Information which is not editable. The bottom portion is related to Maintenance information. **New Maintenance WIE-LCV-1** - Tab name shown to enter New Maintenance data associated with WIE-LCV-1 assets. **WIE-LCV-1 04-28-2024** - Previously stored Maintenance data on 04-28-2024 associated with WIE-LCV-1 assets. The form will be displayed in tabbed form. Fill in the form then click Save button.

Asset Information			
Asset ID	54	Valve Type	Level Control Valve
Tag No	WIE-LCV-1	Manufacturer	FISHER
Body Material	WCB	Business Area	NBU
Body Model	Globe	Platform	WIDURI-E
End Connection	RF	Parent Equipment No.	PL-102-D-4
Serial No.	N/A	Parent Equipment Description	Oil Level Control Valve outlet Test Separator V-01 (LCV-1)
Installation Date	01-01-2007	Size (inch)	2
PID No	WIE-11001 P2	Class Rating	600

Figure 7-21 Asset Information from Maintenance (Top Portion)

Maintenance Information	
Maintenance Date	Is Valve Repaired
<input type="text"/>	Yes
Maintenance Description	Maintenance Image
<input type="text"/>	
<input type="button" value="Save"/>	

Figure 7-22 Maintenance Information Form Maintenance (Bottom Portion)

- Maintenance Date.: The date of Maintenance will be updated to represent the maintenance data.
 - Is Valve Repaired: can be chosen from drop down as Yes/No
 - Maintenance Description can be entered here.
 - Maintenance Images can be uploaded into system as much as possible.
- A successfully saved data message is displayed.

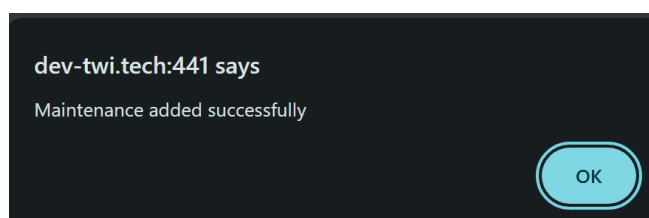


Figure 7-23 Maintenance Added Successfully Message

- The new data will be displayed in the maintenance tree.

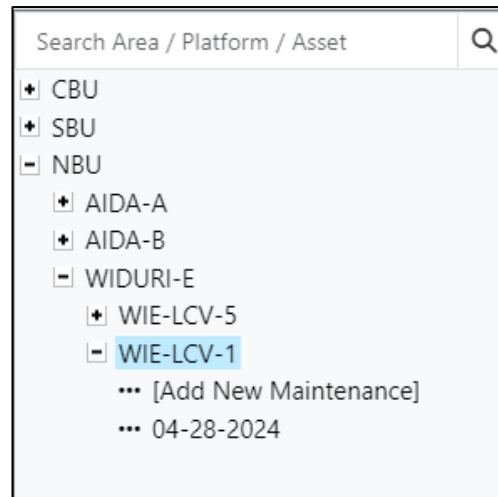


Figure 7-24 Saved Data in Maintenance Tree

7.2.3 Edit Maintenance

This section is used to edit existing data, with the following steps:

- Open Tree Asset and find the Asset to be edit, or input the Query Asset you are looking for in the Search Area / Platform / Asset column and click Maintenance Date on the Asset Tree.

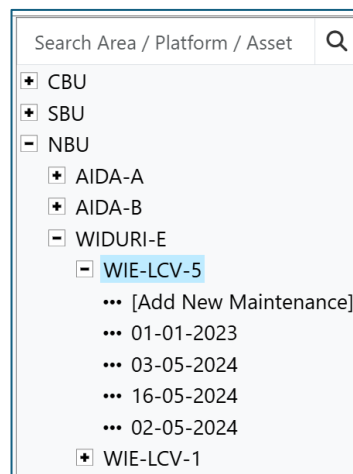


Figure 7-25 Edit Maintenance

- The form will be displayed in tab then change the data as desired then click the Save button.

Figure 7-26 Edit Maintenance Form

- A successfully saved data message is displayed.

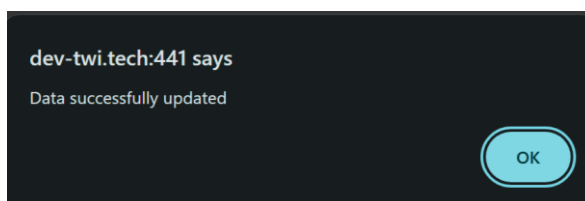


Figure 7-27 Maintenance Updated Successfully Message

- The changed data will be displayed in the inspection tree.

7.2.4 Delete Maintenance

This section is used to delete existing data, with the following steps:

- Open Tree Asset and find the Asset to be edit, or input the Query Asset you are looking for in the Search Area / Platform / Asset column and click Maintenance Date on the Asset Tree.

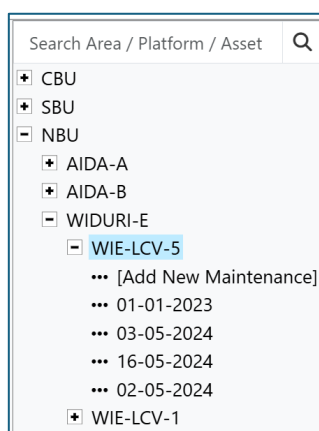


Figure 7-28 Delete Maintenance

- The form will be displayed in tab then click the Delete button.

Figure 7-29 Delete Maintenance Form

- A Confirmation Box will be displayed. Click the OK button to continue.

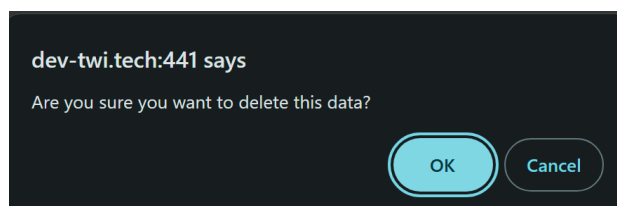


Figure 7-30 Delete Maintenance Confirmation Box

- A successfully deleted data message is displayed.

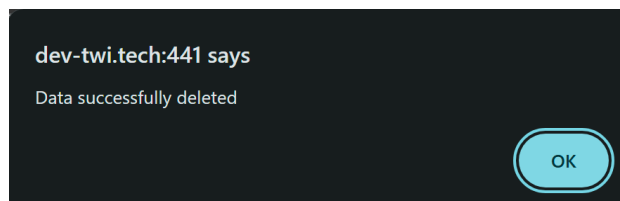


Figure 7-31 Maintenance Delete Successfully Message

- The data will be removed from the inspection tree.

7.2.5 Print Maintenance

The user can print the Maintenance by clicking the date link in the tree view based on Area/Platform and Asset. Then click the print button, the maintenance information will show up on the new window.



Figure 7-32 Print Maintenance Button

8 ASSESSMENT

Assessment module facilitates the Risk Assessment and Risk matrix for Inspection and Maintenance data. The user can click the link from the menu. This section is used to display and perform data manipulation Assessments such as Add New, Edit, and Delete. Once clicked the tree view data will be loaded as below.

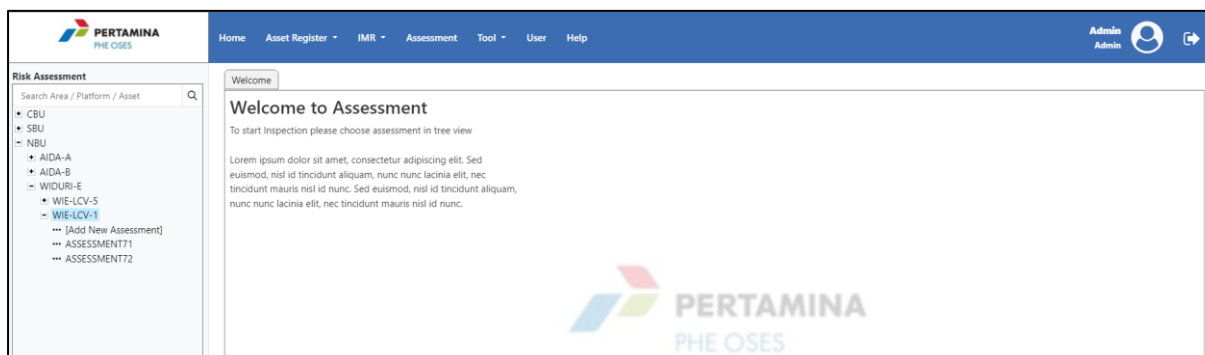


Figure 8-1 Assessment Screen of VIMS

It is able to store the Risk Assessment data related to Area, Platform and Asset information.

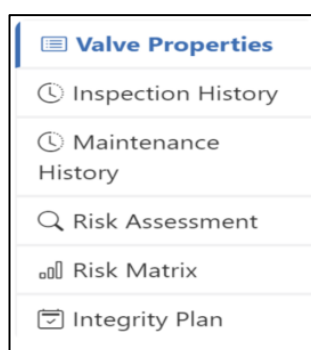


Figure 8-2 Assessment Submenus

In the assessment menu there is 6 submenus as shown above, the detail of the submenus is as follow:

- Valve Properties: Will show the details about the Asset.
- Inspection History: Will display the stored inspection data.
- Maintenance History: The list of Maintenance data will be displayed
- Risk Assessment: is the key function of VIMS
- Risk Matrix: Risk matrix is used to show the graphical report to the management.
- Integrity Plan: The integrity plan will be stored as per the Assessment.

8.1 Assessment List

Assessment data is displayed in a Tree List. Choose the area, platform and valve tag to start the assessment or click **ASSESSMENT with AutoNumber** link to view the existing Assessment data. For example, here Assessment71 is an auto running number. Whenever the user stores the assessment, the auto running number will be added to it.

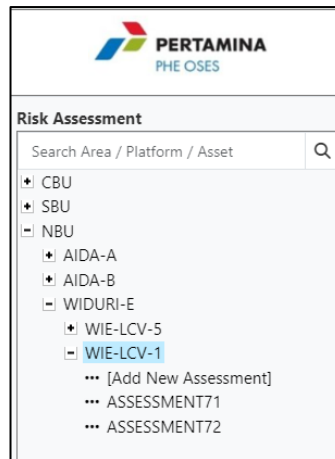


Figure 8-3 Assessment Tree List

8.2 Add Assessment

This section is used to add a new assessment with the following steps:

- a. Open Tree Asset and find the Asset to be added, or input the Query Asset you are looking for in the Search Area / Platform / Asset column and click [Add New Assessment] on the Asset Tree.

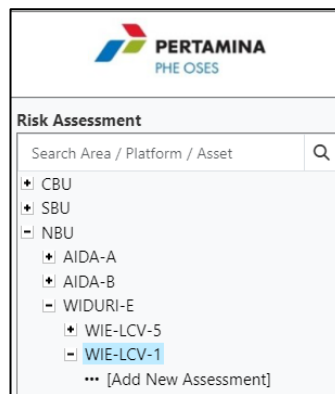


Figure 8-4 Add New Assessment from Tree List

- b. The form will be displayed in tabbed form with properties section. Fill in the form then click the Save button.

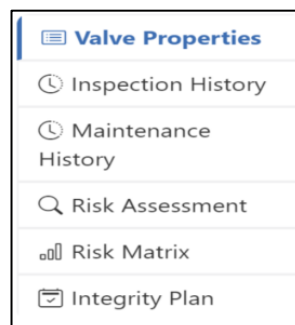


Figure 8-5 Assessment Properties Submenus

- c. Click Valve Properties then fill the form.

Top portion of valve properties will show the existing Valve details with Assessment information. The Asset Information data will be uneditable, The Assessment Information only editable. The user can enter the required fields, then save the details.

Figure 8-6 Assessment Valve Properties

- d. Click Inspection History then click Add Inspection Data button

The list of Inspection data will be displayed, so the user can choose a single or multiple history for assessment. The system will pick up the latest date record if the user chose more than one record.

- Upon proceeding the assessment, the user should choose the inspection data as displayed below.
- The Risk Assessment and Risk Matrix will be calculated as per the data selection.
- Then press the save button.
- The data will be stored into a database based on the auto generated assessment number.

Add Inspection Data

Figure 8-7 Assessment Add Inspection Data

- e. Select Inspection Data to be added then click Confirm Button.

No	Inspection Date	Inspection Method	Inspection Description	Function Condition	Test Pressure (if any)	Action
1	11-06-2022	Visual Inspection	Packing, Valve Trim: Worn Bonnet Gasket, Bonnet : N/A Valve Body, Bolts & Nuts: Heavy Corroded Gear Box : Corroded	Packing Leak		Select
2	12-06-2022	Visual Inspection	Packing, Valve Trim: Worn Bonnet Gasket, Bonnet : N/A Valve Body, Bolts & Nuts: Heavy Corroded Gear Box : Corroded	Packing Leak	null	Select
3	14-06-2022	Visual Inspection	Packing, Valve Trim: Worn Bonnet Gasket, Bonnet : N/A Valve Body, Bolts & Nuts: Heavy Corroded Gear Box : Corroded	Packing Leak	null	Select
4	30-04-2024	Visual Inspection	Description of inspection by Mr. Aris	-	-	Select

Showing 1 to 4 of 4 entries

Confirm

Figure 8-8 Assessment Select Inspection Data

- f. The selected Inspection Data shown as follow.

Figure 8-9 Assessment Inspection Data selected

- g. Click Maintenance History then click Add Maintenance Data.

The list of Maintenance data will be displayed, so the user can choose a single or multiple history for assessment. The system will pick up the latest date record if the user chose more than one record.

- Upon proceeding the assessment, the user should choose the maintenance data as displayed below.
- The Risk Assessment and Risk Matrix will be calculated as per the data selection.
- Then press the save button.
- The data will be stored into a database based on the auto generated assessment number.

Add Maintenance Data

Figure 8-10 Assessment Add Maintenance Data

- h. Select Maintenance Data to be added then click Confirm Button.

No	Maintenance Date	Is Valve Repaired?	Maintenance Description	Action
1	01-06-2023	Yes	Refurbish valve body, gear box and replace bolts and nuts.	Select
2	02-06-2023	Yes	Refurbish valve body, gear box and replace bolts and nuts.	Select
3	03-06-2023	Yes	Refurbish valve body, gear box and replace bolts and nuts.	Select
4	30-04-2024	Yes	Maintenance Description	Select

Showing 1 to 4 of 4 entries

Confirm

Figure 8-11 Assessment Select Maintenance Data

- i. The selected Maintenance Data shown as follow.

The screenshot displays the 'Maintenance History' form. The left sidebar has a menu with 'Maintenance History' selected. The main content area shows a table with the following data:

No	Maintenance Date	Is Valve Repaired?	Maintenance Description	Action
1	04-28-2024	No	Greasing of Valve	Detail Delete

Below the table, there is a pagination control showing '1' of '10' entries per page. A 'Save' button is located at the bottom left of the form area.

Figure 8-12 Assessment Maintenance Data Selected

- j. Click Risk Assessment then fill the form.

As per the Assessment on the Inspection and Maintenance data. The system will store automatically the assessment values such as LF1 to LF7.

- LF1 & LF3 - Will be automatically filled as per the Inspection data.
- LF2 - is calculated from the Time period against Leakage to atmosphere, Failure of Function and passing across value.
- F4, LF5 & LF6 - are allowed to feed the manual entries.
- LF7 - is derived from Maintenance data.
- Consequence of Failure will be measured as per the calculation.

Welcome | New Assessment WIE-LCV-1 X

Valve Properties
Inspection History
Maintenance History
Risk Assessment
Risk Matrix
Integrity Plan

Likelihood of Failure

LF1 - Current Condition

Leakage to atmosphere: Good

Failure of Function: Good

Passing across valve: Good

LF2 - Time To Limit State

Leakage to atmosphere: TP1: Doubtful, TP2: Expected, TP3: Expected

Failure of Function: TP1: Doubtful, TP2: Expected, TP3: Expected

Passing across valve: TP1: Doubtful, TP2: Expected, TP3: Expected

LF3 - Inspection Effectiveness: Highly Effective

LF4 - Impact of Internal Fluid Impurities: No Expected Effect

LF5 - Impact of Operating Envelopes: No Expected Effect

LF6 - Used within OEM Specification: Significantly Below Specification

LF7 - Repaired: Yes

Consequence of Failure

Product loss definition (bbis): 0

HSSE Definition: Slight Injury or Health Effect

Save

Figure 8-13 Assessment Risk Assessment

- k. Click Risk Matrix to see the results of the Risk Assessment calculation.

The Risk matrix will be automatically calculated, according to the Risk assessment. The time period duration has been validated against Leakage to atmosphere, Failure of Function and Passing across value. The TP values will be plotted into the graph based on the Consequence of failure and Likelihood of failure as below.

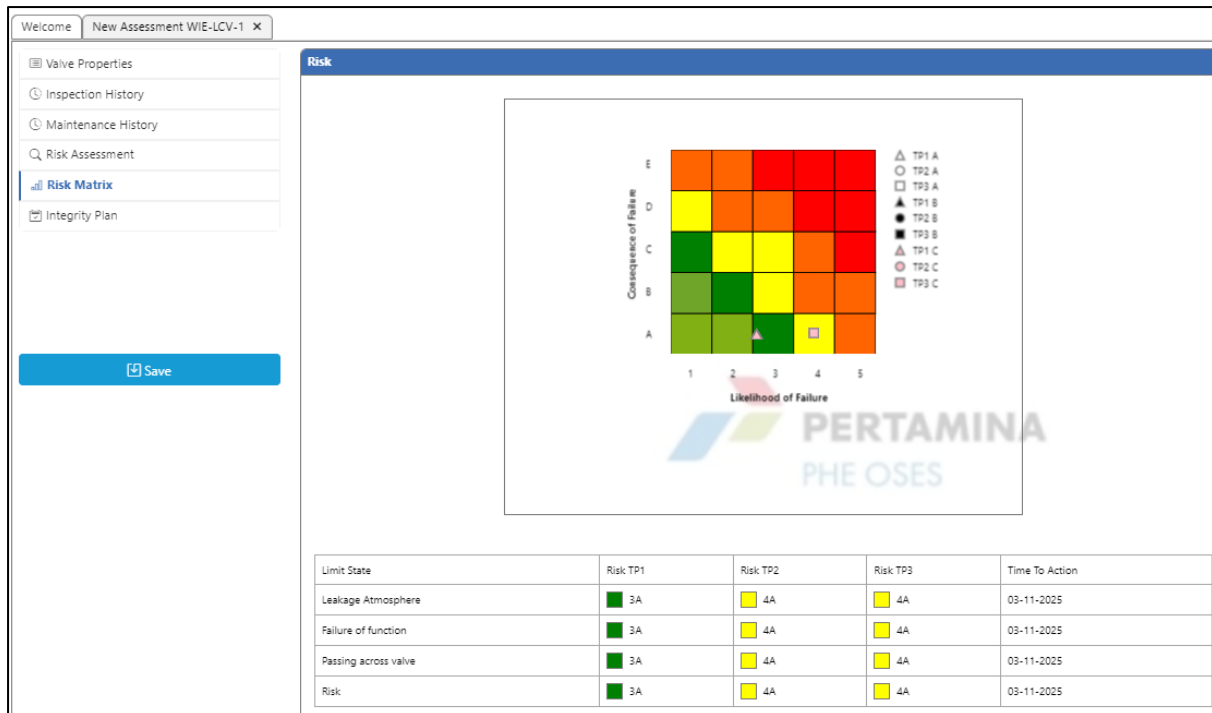


Figure 8-14 Assessment Risk Matrix

I. Click Integrity Plan then fill the form.

At last, the Integrity plan will be stored as per the assessment.

- Integrity Status - Can be selected from dropdown box by Very High Priority/High Priority/Medium Priority/Low Priority/Very Low Priority
- Summary can be filled in the text area.
- Time to Taken can be filled by date.
- Recommendation Action can be chosen by Inspection/Repair/Replace
- Detailed Recommendation will be final data for the assessment.

Integrity Plan

Integrity Status: Medium Priority

Time To Action: 03-11-2025

Summary: Valve integrity medium, found packing leak as per inspection data 03-05-2024.

Recommendation Action: Inspection

Detailed Recommendation:

- Continue regular maintenance greasing of valve
- Replace packing as per action date

Figure 8-15 Assessment Integrity Plan

- m. Click Save button to save the Assessment Calculation.



Figure 8-16 Assessment Save Button

- n. A successfully inserted data message is displayed.

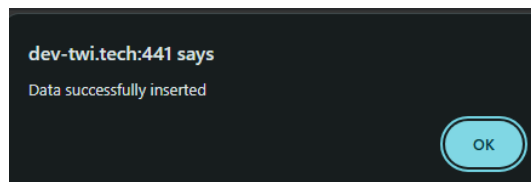


Figure 8-17 Assessment Pop Up Message

8.3 Detail Assessment

This section is used to edit existing data, with the following steps:

- a. Open Tree Asset and find the Asset to see detail, or input the Query Asset you are looking for in the Search Area / Platform / Asset column and click Assessment Date on the Asset Tree.

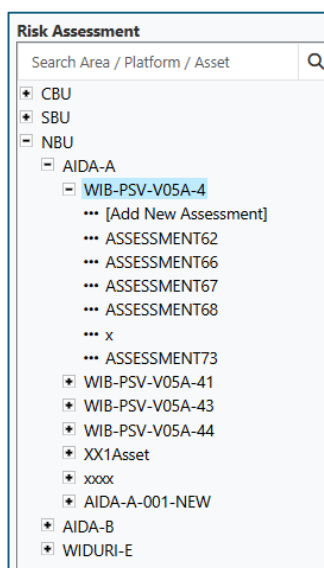


Figure 8-18 Edit Assessment

- b. The form will be displayed in tabbed form with properties section. Fill in the form then click the Save button.

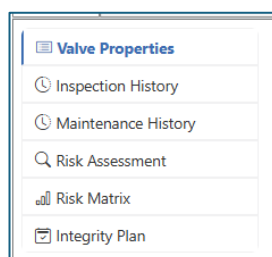


Figure 8-19 Assessment Properties Submenus

- c. Click Valve Properties then Detail will be displayed.

Asset Information			
Asset ID	1	Size (inch)	12
Tag No	WIB-PSV-V05A-4	Class Rating	155
Equipment Name		Service Fluid	UNKNOWN
Business Area	NBU	Fluid Phase	Liquid
Platform	AIDA-A	Flow Rate (m3/hr)	3
Parent Equipment No.	P123	Operating Temperature (F)	1
Parent Equipment Description	Just Desc	Operating Pressure (Psig)	2
Installation Date	14/03/2024	Toxic or Flammable Liquid	Yes
PID No	PID 2	Cost of replacement and repair (USD)	
Valve Type	Air Release Valve	Actuator Mfg	N/A
Manufacturer	AL	Actuator Serial No.	345656782
Body Material	MAT	Actuator Type/Model	N/A
Body Model	NA	Actuator Power	N/A
End Connection	RJ	Manual Override	Yes
Serial No	2342N4324823J	Status	
Usage Type		Actuation	

Assessment Information			
Assessment No		Time to Limit State Leakage to atmosphere (Month)	0
Assessment Date	07-05-2024	Time to Limit State Failure of function (Month)	0
Time Period (Month)	12	Time to Limit State Passing accross valve (Month)	0

Figure 8-20 Assessment Valve Properties

- d. Click Inspection History then click Detail button.

Detail

Figure 8-21 Assessment Inspection History Detail Button

- e. Inspection Data Detail will be displayed.

Asset Information

Asset ID	1	Valve Type	Air Release Valve
Tag No	WIB-PSV-V05A-4	Manufacturer	AL
Body Material	MAT	Business Area	NBU
Body Model	NA	Platform	AIDA-A
End Connection	RJ	Parent Equipment No.	P123
Serial No.	2342N4324823J	Parent Equipment Description	Just Desc
Installation Date	14/03/2024	Size (inch)	12
PID No	PID 2	Class Rating	155

Inspection Information

Valve Tag No	WIB-PSV-V05A-4	Current Condition Leakage to Atmosphere	Good
Inspection Date	11-06-2022	Current Condition Failure of Function	Fair
Inspection Method	Visual Inspection	Current Condition Passing Across Valve	Poor
Inspection Effectiveness	Highly Effective	Function Condition	Packing Leak
Inspection Description	Packing, Valve Trim: Worn Bonnet Gasket, Bonnet: N/A Valve Body, Bolts & Nuts: Heavy Corroded Gear Box: Corroded		
	Test Pressure if Any		
	Inspection Image		

Close

Figure 8-22 Assessment Inspection Data Detail

f. Click Maintenance History then click Detail.

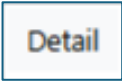


Figure 8-23 Assessment Maintenance Data Detail Button

g. Maintenance Data will be displayed.

Asset Information			
Asset ID	1	Valve Type	Air Release Valve
Tag No	WIB-PSV-V05A-4	Manufacturer	AL
Body Material	MAT	Business Area	NBU
Body Model	NA	Platform	AIDA-A
End Connection	RJ	Parent Equipment No.	P123
Serial No.	2342N4324823J	Parent Equipment Description	Just Desc
Installation Date	14/03/2024	Size (inch)	12
PID No	PID 2	Class Rating	155

Maintenance Information	
Maintenance Date	Is Valve Repaired
01-06-2023	Yes
Maintenance Description	Maintenance Image
Refurbish valve body, gear box and replace bolts and nuts.	

Close

Figure 8-24 Assessment Maintenance Data Detail

h. Click Risk Assessment then Detail will be displayed.

Likelihood of Failure			
LF1 - Current Condition			
Leakage to atmosphere	Good		
Failure of Function	Fair		
Passing across valve	Poor		
LF2 - Time To Limit State			
	TP1	TP2	TP3
Leakage to atmosphere	Expected	Expected	Expected
Failure of Function	Expected	Expected	Expected
Passing across valve	Expected	Expected	Expected
LF3 - Inspection Effectiveness			
	Highly Effective		
LF4 - Impact of Internal Fluid Impurities	No Expected Effect		
LF5 - Impact of Operating Envelopes	No Expected Effect		
LF6 - Used within OEM Specification	Significantly Below Specification		
LF7 - Repaired	Yes		

Consequence of Failure	
Product loss definition (bbls)	0
HSSE Definition	Slight Injury or Health Effect

Figure 8-25 Assessment Risk Assessment

i. Click Risk Matrix to see the results of the Risk Assessment calculation.



Figure 8-26 Assessment Risk Calculation Result

j. Click Integrity Plan then Detail will be displayed.

Figure 8-27 Assessment Integrity Plan

8.4 Print Assessment

This section is used to delete existing data, with the following steps:

- Open Tree Asset and find the Asset to be printed, or input the Query Asset you are looking for in the Search Area / Platform / Asset column and click Assessment Date on the Asset Tree.

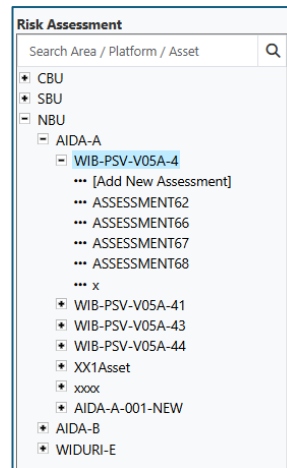


Figure 8-28 Print Assessment

- b. Click Print button. The print option to produce the consolidated report of assessment.



Figure 8-29 Assessment Print Button

- c. The new tabbed will open. Use print feature from the browser to print the valve passport.

Valve Passport							
Tag Number		WIB-PSV-V05A-4		Date		07-05-2024	
Business Area		NBU		Assessment		ASSESSMENT73	
Platform		AIDA-A		Valve Type		Air Release Valve	
VALVE INFORMATION				PROCESS INFORMATION			
PBID Number		PID 2		Operating Pressure (Psig)		2	
Parent Equipment No.		P123		Operating Temperature (F)		1	
Parent Equipment Desc		Just Desc		Service Fluid		UNKNOWN	
Size (Inch)		12		Fluid Phase		Liquid	
Class Rating		155		Toxic or Flammable Fluid		Yes	
Installation Date		14/03/2024		Actuation			
Manufacturer		AL		Pneumatic		<input type="checkbox"/> ----	
Body Material		MAT		Hydraulic		<input type="checkbox"/> ----	
Remaining Life		-----		Manual Override		<input checked="" type="checkbox"/> ----	
Approx. cost of replacement and repair (USD)				Usage Type			
VALVE INSPECTION HISTORY				Manual valve <input type="checkbox"/> --- Auto On-Off Valve <input type="checkbox"/> --- Control Valve <input type="checkbox"/> --- PSV/PRV <input type="checkbox"/> --- Status In-service <input type="checkbox"/> --- Waiting For Refurbishment <input type="checkbox"/> --- Spare <input type="checkbox"/> ---			
VALVE MAINTENANCE HISTORY				RISK RESULT			
Maintenance Date	Is Valve Repaired	Maintenance Description	Maintenance Image				
01-06-2023	Yes	Refurbish valve body, gear box and replace bolts and nuts.					

Figure 8-30 Assessment Print Form

8.5 Delete Assessment

This section is used to delete existing data, with the following steps:

- a. Open Tree Asset and find the Asset to be deleted, or input the Query Asset you are looking for in the Search Area / Platform / Asset column and click Assessment Date on the Asset Tree.

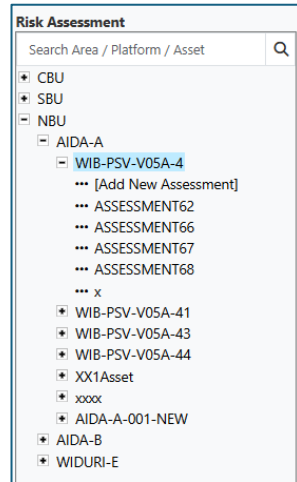


Figure 8-31 Delete Assessment

- b. The Delete functionality has been provided to delete the unwanted Assessment data by clicking the Delete button.



Figure 8-32 Delete Assessment Button

- c. Confirm dialog will be displayed.

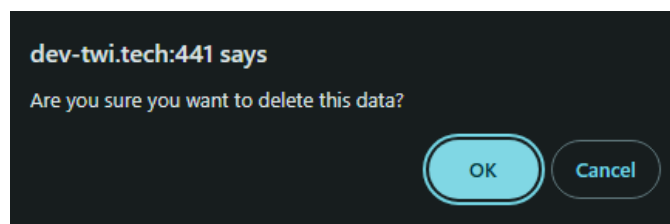


Figure 8-33 Assessment Delete Confirmation Box

- d. Click Ok to Continue
- e. A successfully deleted data message is displayed.

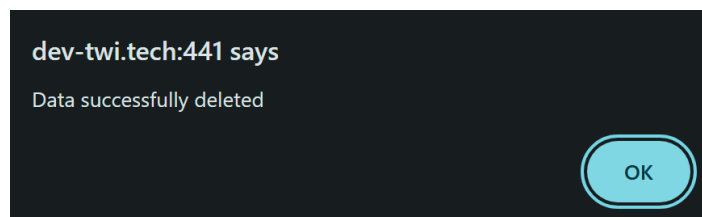


Figure 8-34 Assessment Delete Successfully Message

9 TOOL

Tool module facilitates the manual uploading into the database. There are three modules of data can be imported such as Asset Register, Inspection/Maintenance and Assessment.

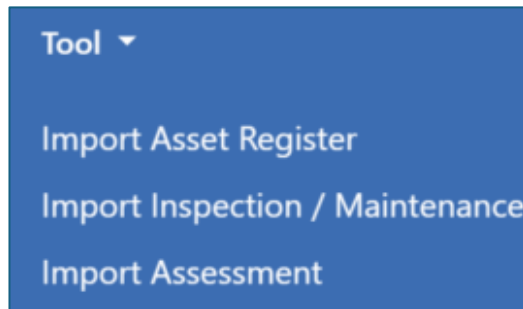


Figure 9-1 Tool Menu of VIMS

9.1 Import Asset Register

The VIMS is providing the option to upload the multiple asset data at a time of clicking the import button. There will be a standard template to fill in the asset data as per the database structure.

Import Asset Register	
Download the template file here	
File:	<div>Choose File No file chosen</div>
<div>Import File</div>	

Figure 9-2 Import Asset Register from Tools Module of VIMS

9.2 Import Inspection / Maintenance

The VIMS is providing the option to upload the multiple Inspection and Maintenance data at a time of clicking the import button. There will be a standard template to fill in the Inspection and Maintenance data as per the database structure.

Import Inspection	
Download the template file here	
File:	<div>Choose File No file chosen</div>
<div>Import File</div>	

Figure 9-3 Import Inspection from Tools Module of VIMS

here'. There is a file selection area with a 'File:' label, a 'Choose File' button, and the text 'No file chosen'. At the bottom, there is a large blue button labeled 'Import File'."/>

Figure 9-4 Import Maintenance from Tools Module of VIMS

9.3 Import Assessment

The VIMS is providing the option to upload the multiple Assessment data at a time of clicking the import button. There will be a standard template to fill in the Assessment data as per the database structure.

here'. There is a file selection area with a 'File:' label, a 'Choose File' button, and the text 'No file chosen'. At the bottom, there is a large blue button labeled 'Import File'."/>

Figure 9-5 Import Assessment from Tools Module of VIMS

10 USER

This section is used to display and perform data manipulation Users such as Add New, Edit, and Delete. The user module is to create the user profile and provide permission to access the modules. The list of roles is Admin/Engineer/Viewer.

User						
+ Add New		<input type="text" value="Search"/>				
No	Username	Role Name	Admin	Engineer	Viewer	
1	Admin	Admin	✓	✓	✓	Edit
2	Engineer	Engineer		✓	✓	Edit
3	Viewer	Viewer			✓	Edit
4	TWI	Administrator	✓	✓	✓	Edit

< 1 > 10 entries per page
 Showing 1 to 4 of 4 entries

Figure 10-1 User Management Module of VIMS

There is a Quick Search feature to find the searched user based on the query inputted.

User						
<div><div>+ Add New</div><div>Q TWI</div></div>						
No	Username	Role Name	Admin	Engineer	Viewer	
4	TWI	Administrator	✓	✓	✓	<div>Edit</div>
<div><div>< 1 ></div><div>10</div> entries per page<div>Showing 1 to 1 of 1 entry (filtered from 4 total entries)</div></div>						

Figure 10-2 User Quick Search

10.1 Add New User

This section is used to add a new user with the following steps:

- a. The admin user can add user by clicking the Add New button on the User screen.



Figure 10-3 Add New User Button

- b. Input data in the dialog box that appears.

Add/Edit New user

Username

Username

Password

Leave blank if you don\'t want to change the password

Role Name

Role Name

Admin

Engineer

Viewer

☐

☐

☐

Save

Cancel

Figure 10-4 Add New User Form

- c. Click the Save button. The added data will be displayed in the user list.

10.2 Edit User

This section is used to edit existing data, with the following steps:

- a. Click the Edit button on the data you want to change.

5	test	123	✓	✓	✓	<div>Edit</div>
---	------	-----	---	---	---	-----------------

Figure 10-5 Edit User Button

- b. In the dialog box that appears, change the data as desired.

Add/Edit New user

Username

test

Password

Leave blank if you don't want to change the password

Role Name

123

Admin

☒

Engineer

☒

Viewer

☒

Delete

Save

Cancel

Figure 10-6 Edit User Form

c. Click the Save button. The changed data will be displayed in the user list.

10.3 Delete User

This section is used to delete existing data, with the following steps:

- a. The admin user can delete the user by clicking the edit button on the User screen. There will be a pop-up screen to do the delete activity.

5	test	123	✓	✓	✓	 Edit
---	------	-----	---	---	---	--

Figure 10-7 User Delete Data

- b. In the dialog box that appears, click Delete button.

Add/Edit New user

Username

test

Password

Leave blank if you don't want to change the password

Role Name

123

Admin

☒

Engineer

☒

Viewer

☒

Delete

Save

Cancel

Figure 10-8 User Delete Form

- c. A Confirmation Box will be displayed. Click the OK button to continue. Data that has been deleted will disappear from the user list.

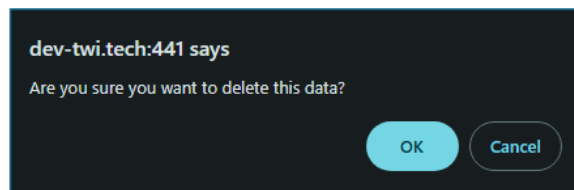


Figure 10-9 User Delete Confirmation Box

11 HELP

The Help menu is consisting with this user manual or user guide document, this document is to help users in using the VIMS application. To access the manual document user can click help menu in VIMS application.



Figure 11-1 Help User Guide Button