

# PROFESSIONAL USERS MANUAL



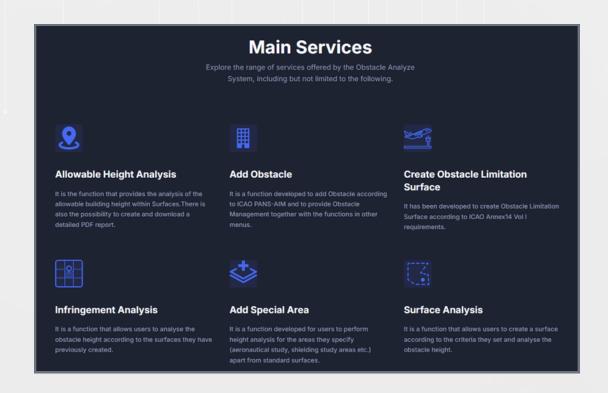




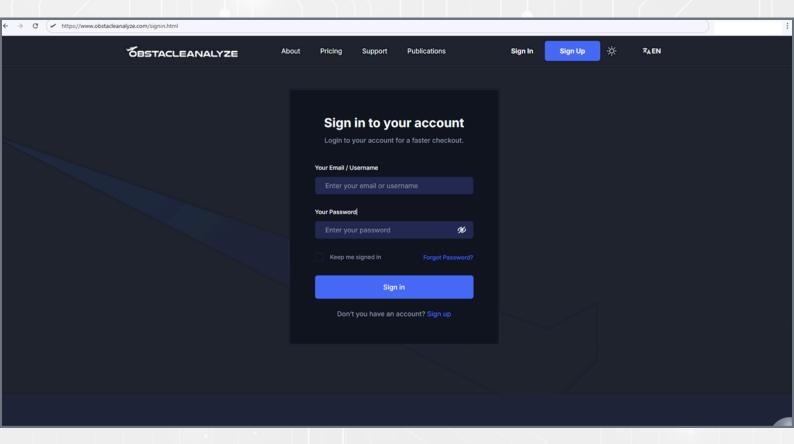
#### **Home Page**



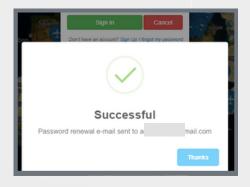
- When users enter the www.obstacleanalyze.com URL from their web browser, they are come across with the Obstacle Analyze Homepage.
- Users can access a lot of information about the system on the homepage.
   There is information about available services and functions, existing customers, system structure, etc.

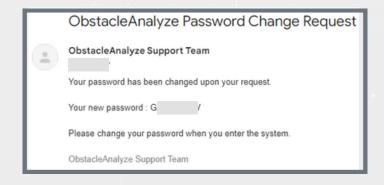


# **Login Page**



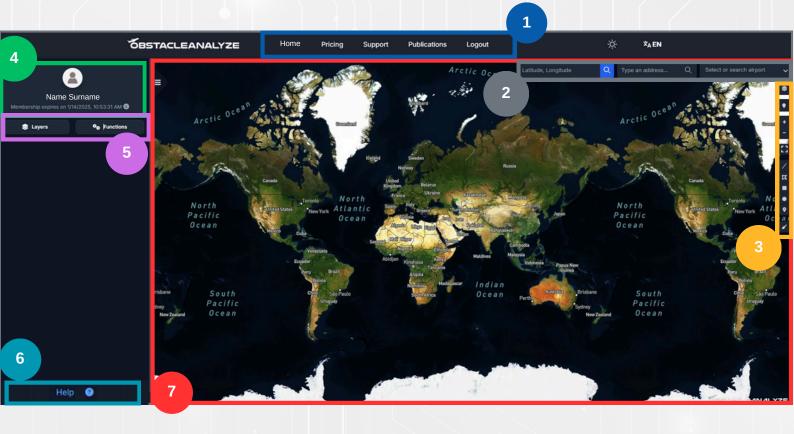
- When users enter the page from the URL www.obstacleanalyze.com/signin, they will see a login screen.
- After entering the username or email and password informations, users can log in by clicking on the Sign In button, also users can check the password, entered from the View
   button.





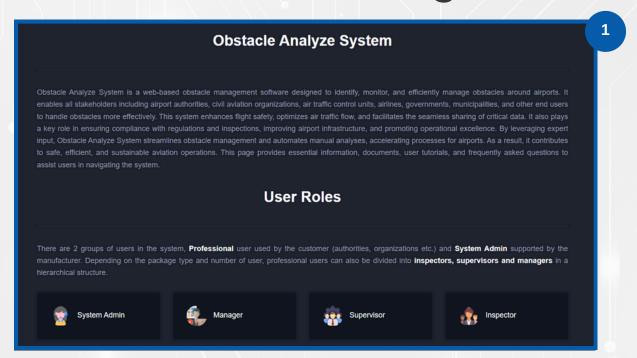
• If the users forgets their password, they can click on "Forgot Password" and a notification will be sent to their email address.

## System Page

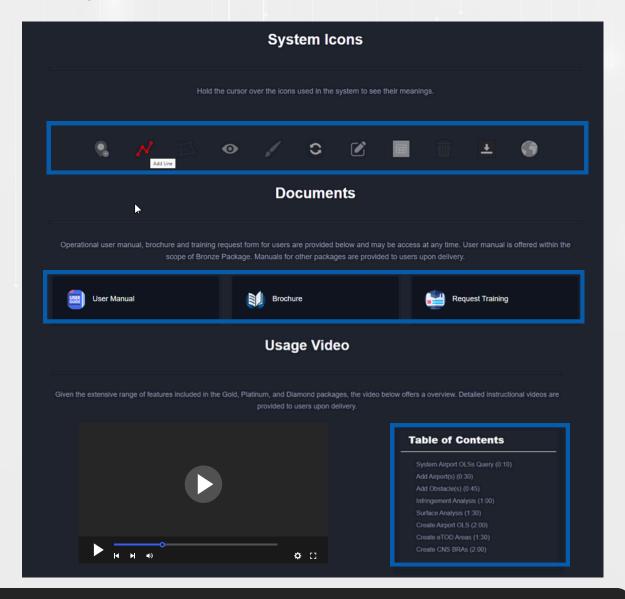


- Users access the System Page (Explore) after logging in to the platform.
- Section 1 provides an overview of the pages accessible within the platform.
- The explore page is the page where users in the system perform the basic operations related to Obstacle Analyze.
- There are 7 sections on the explore page, these sections will be described separately.

## **Publication Page**

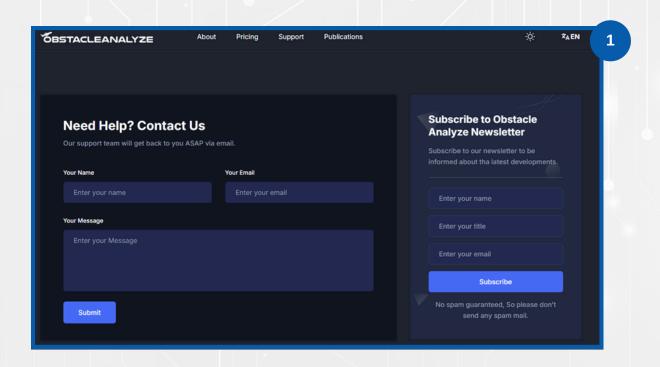


• The PUBLICATIONS page contains users manual, video and small information that will provide guidance for users.



## **Support Section**

 There is a section on the Support Section where registered users can send an e-mail to the system admin. There is also a section to subscribe to our newsletter to keep updated with the latest developments.

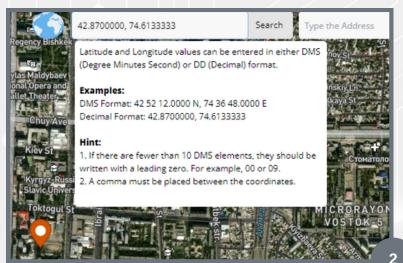


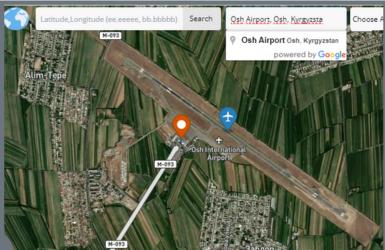
# **Pricing Section**



## **Explore Page**

In the navigation bar at the top of the Explore page, the left box contains
the field for searching by coordinate, and the middle box contains the
field for searching by address and the right box contains the airport list.



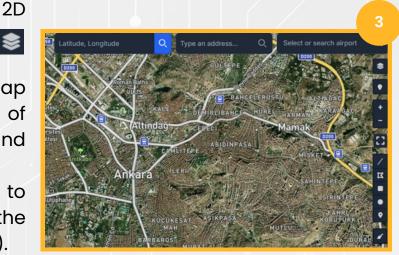


- Latitude and Longitude values are entered in DMS(Degree Minutes Second) or DD(Decimal) Format. Users should enter coordinates in DD.DDDD or DD MM SS.SS. Examples: 42 52 12.0 N, 74 36 48.0 E or 42.8700000, 74.6133333 or 42°52'12.0 "N, 74°36'48.0 "E.
- If there are fewer than 10 DMS elements, should be written with 0 at the beginning. For example, 00 or 09.
- Users should use the point (.) for decimal separators.
- A comma (,) must be placed between the coordinates (latitude, longitude).
- In the search by address section, when users type the keywords of the address their want to search, suggestions are listed for them.



## **Explore Page**

- are 10 open There source basemap on the Layer button located on the right.
  - \$
- These are Mapbox, Openstreetmap and Thunderforest basemaps. Any of these basemaps can be selected and used as desired.
- The Location button 🖸 is used to display your current location on the map (browser permission required).
- The Plus button is used for zoomin, the Minus button 
  is used for zoom-out. The Frame button is used for full screen.

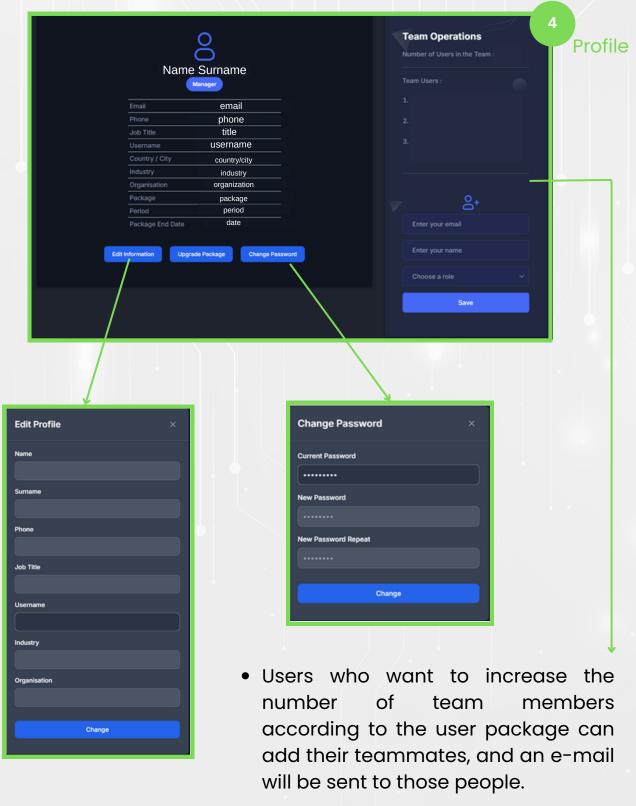


The Line button / is used to draw a line and measure the distance. The Polygon buttons 🗷 🔳 💿 are used to draw area. Add marker button 💿 is used to add point/marker on the map. The Broom button is used to clean up if there are any objects left on the map.



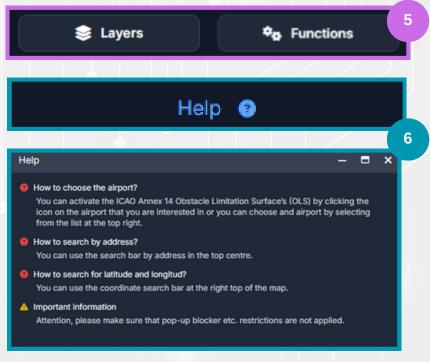
- Users information is located at the top of the menu on the left side of the page.
- A page opens from the profile button where users can make changes to their information.

## **Profile Page**



- It is possible to view existing information, change password, change users information.
- If the user requests a package upgrade, an automatic e-mail will be sent to the system administrator and the user will be contacted as soon as possible.

## **Explore Page**



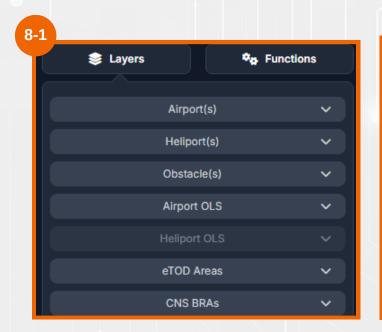
- The Layers and Functions menus are where users will perform Obstacle Analyze operations.
- The help area contains some little information that is intended to help users.

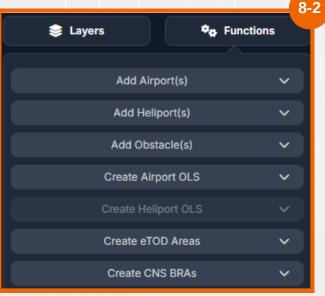


• The map area in the middle of the page is where users will visualize all the analysis and operations that users will do.

## **Explore Page**

• There are two basic menus on the left side of the system: Layers and Functions. Functions is the menu where every user, regardless of their role, can add, draw, create, and analyze. Once users have done all the work under the Functions menu, they can view the results of all these saved work at any time under the Layers menu.



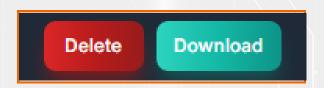


- There are 16 sub-menus under each menu. Technical details about how they work individually will be given on the following pages.
- Coordinates data entries shall be in geographical and Degrees Minutes
   Seconds (DDMMSS.SS) or Decimal (DD.DDDDDD) formats in All Functions
   Manual Inputs.
- Dimensions, elevations and heights shall be in **meters** in All Functions Manual Inputs.

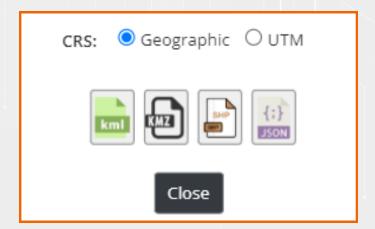
#### **Sub-Menus Icons**

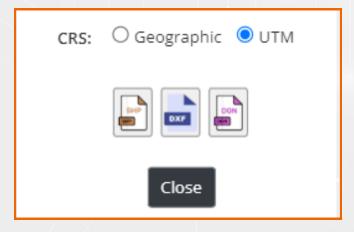


• In the Actions section under the My submenu, there is the View button where users can see the added content, the Edit button where users can edit the content, and the Clear button where users can delete the content.



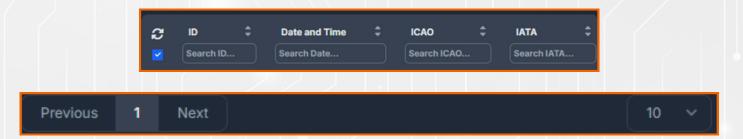
 The **Download** button under the tables provides users with formats that users can save to own computer.





 There are options to export the lists shown in the submenus under the Layers menu in Geographic and UTM formats. Geographical export can be done in .kml, .kmz, .shp, .json formats. UTM can be exported in .shp, .dxf, .dgn formats.

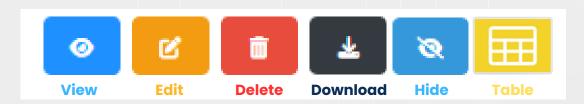
#### **Sub-Menus Icons**

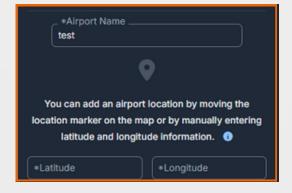


- The Search field in the columns filters only the values in that column, and the up and down arrows to the right of Search allow users to sort the data in ascending/descending order.
- There is also a refresh button in the Layers to instantly display changes made by users in Functions.
- There are also options to navigate between lists and to specify how many lines to show in a single list.



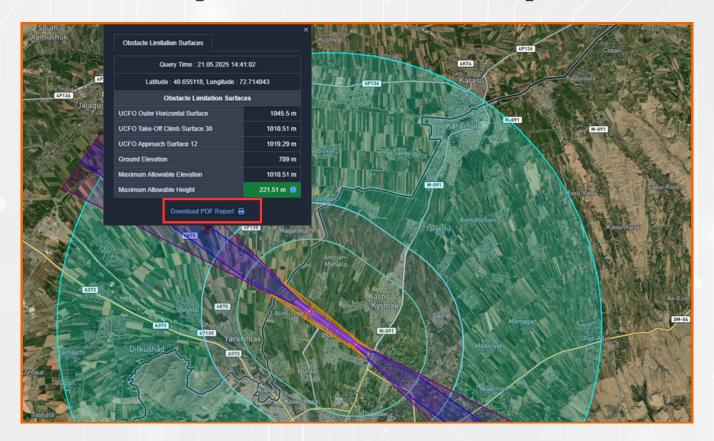
- In the How To? section, the technical details of how this process is performed is summarized to the user.
- In the **Sample Data** section, it is exemplified to the users how this function should be used with the sample data.
- When this text is pressed, the sample data related to the relevant function is automatically filled in the relevant boxes in Manual Inputs, and the sample file is prepared for download in Upload From File.





 When users click inside a box, they can see which parameter it belongs to on the box.

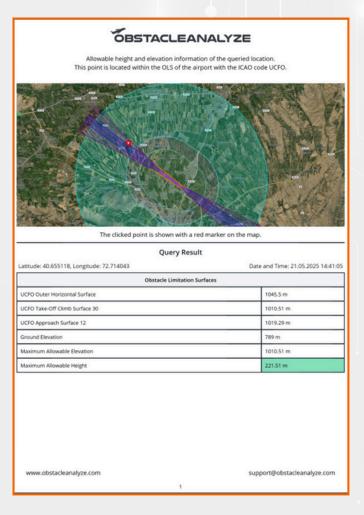
## System OLS Query



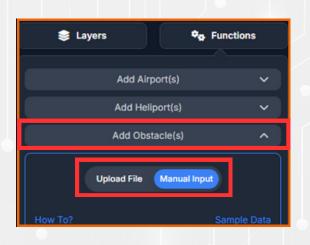
- It is also possible to perform a System OLS Query (Allowable Height Analysis) on an OLS previously saved.
- The result of the surface elevations and ground level of the location that the user clicked on the OLS is given, and according to these, the Maximum Allowable Height Analysis result for this location is shown.
- Results are produced depending on the accuracy of the ground level. The ground level in our system is primarily derived from 30meter resolution NASADEM, ASTERGDEM, SRTM data. In some regions, higher-resolution satellite imagery and ground surveys datasets have been integrated where available.
- The system is customisable according to the demands of the users.

## System OLS Query

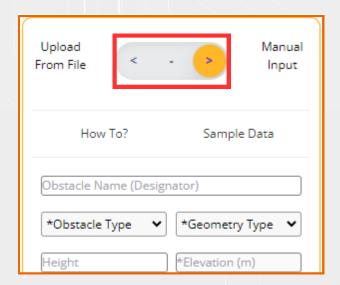
- When the **Download PDF Report** button is pressed in the Allowable Height Analysis popup, the report of the analysis can be downloaded and printed out if desired.
- The report contains information about the location, the results of the analysis, and the person who performed the analysis, as well as an image of the queried area.





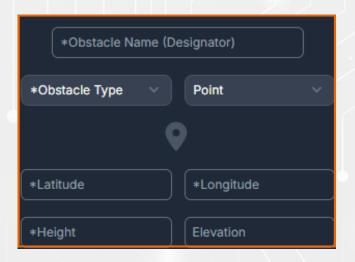


- The Add Obstacle Menu is the area that will be used when users want to add a new obstacle.
- In this menu, users can see two options firstly: Upload From File & Manual Input.
- If users are going to upload the obstacle data in the form of a list, users should select Upload From File. If users are going to add a single obstacle data according to ICAO PANSAIM, users should select Manual Input.

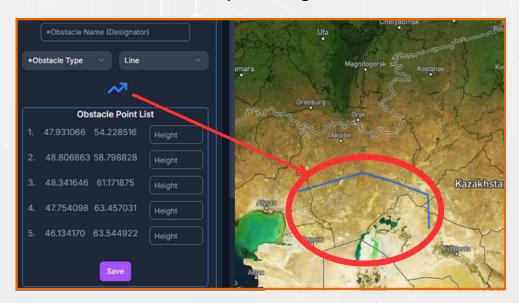


- In the **How To?** section, the technical details of how this process is performed is summarized to the user.
- In the Sample Data section, it is exemplified to the users how this function should be used with the sample data.

In Manual Input the search criteria change according to the Geometry
 Type the users selects:

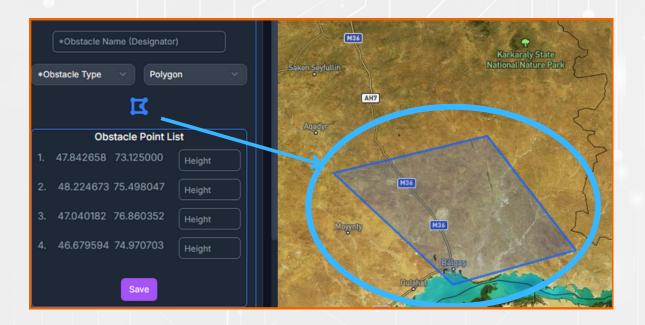


- In the Point geometry type, when users click on the Add Location button and navigate the map, users can fill in the Latitude and Longitude boxes by selecting the location users want.
- As another option, users can add a location by filling in the Latitude and Longitude boxes and see it automatically on the map.
- The **Add Line** button is used to draw a line by clicking on the map. Latitude and longitude information is automatically filled in the table and the users must enter the height information of the line obstacle for each point. Then the user continues by clicking the Save button.

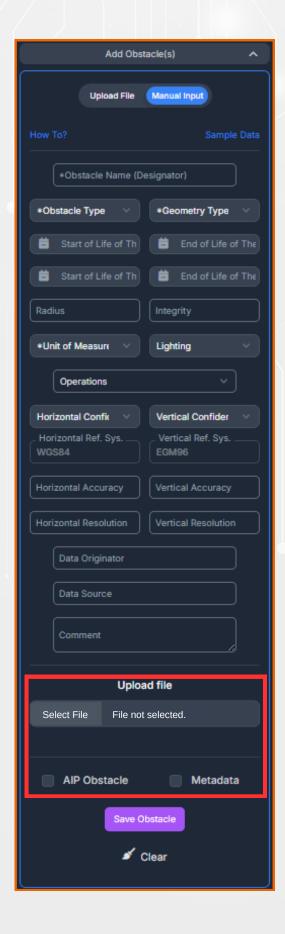


 While this drawn line is kept as the geometry of the obstacle, the heights entered are automatically converted to elevation and saved by the system. When the obstacle is a line, the highest height entered is automatically saved in the obstacle attribute.

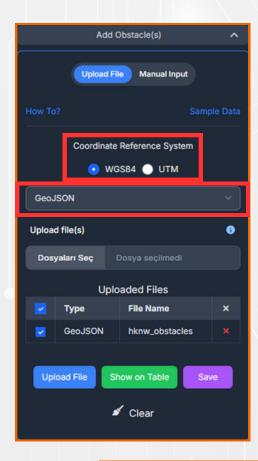
• The **Add Polygon** button is used to draw a polygon by clicking on the map. Latitude and longitude information is automatically filled in the table and the users must enter the height information of the polygon obstacle for each point. Then the user continues by clicking the Save button.



- While this drawn polygon is kept as the geometry of the obstacle, the heights entered are automatically converted to elevation and saved by the system. When the obstacle is a polygon, the highest height entered is automatically saved in the obstacle attribute.
- Clear button should be used to delete the drawn or added geometries.



- In Manual Input, after selecting the geometry type, users who want to add obstacles can save it by filling in the ICAO PANSAIM obstacle properties accordingly.
- When users enter the Height information of the Obstacle, the Elevation information(s) can be calculated automatically by the system.
- If users have an image of the obstacle, they can upload it to the system from Upload File.
- Attributes with an asterisk (\*) next to them indicate attributes that are required to be entered by the system.
- Users can create their own metadata records for the added obstacle by selecting the **Metadata** option.
- A default metadata file in INSPIRE format is automatically saved in the system according to the obstacle information users enter. Users can then download and view it from the list under My Obstacles in Layer.
- If users want to save the obstacle as an AIP obstacle, AIP Obstacle option should be selected.



- In the Upload from File section, users can upload obstacle lists after selecting the coordinate system and file format.
- In the How To? section, the technical details of how this process is performed is summarized to the user.
- In the Sample Data section, it is exemplified to the users how this function should be used with the sample data.
- With the Information button, the users is given an explanation about the upload file(s).



 After the Obstacle file is loaded, if users click the Upload File button, they can see the file their loaded on the map, if users click the Show on Table button, they can see the file their loaded in the table, and if they click the Save button, they can save the file.

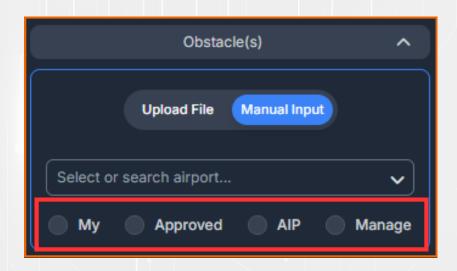
- When users want to upload a file in the function, there are two different coordinate reference systems: Geographic and UTM. For Geographic upload can be done in .kml, .kmz, .shp, .geojson, .xml (AIXM), .csv formats. For UTM, upload can be done in .shp, .dxf, .dgn, .csv formats.
- If UTM format is selected, the appropriate **UTM Zone** must first be selected from the zones opened on the map.
- When users click the **Show in Table** button, they can see the export options in different formats at the top of the table.





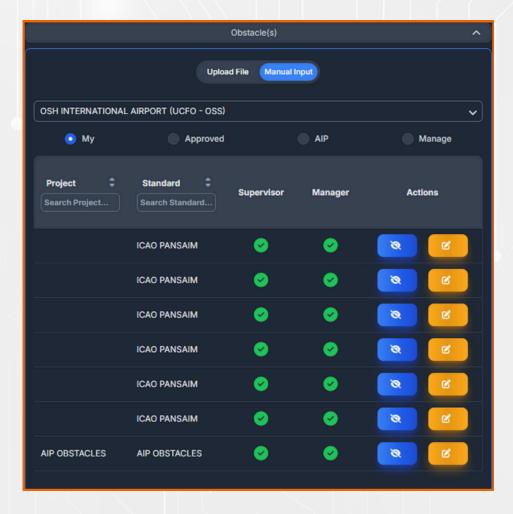
## **Obstacles Layer**

- To view the previously added obstacle data, users need to look at the submenus under the Layers menu.
- Users see 3 or 4 submenus in Obstacles Layer . My, Approved, AIP and Manage if the user role is Manager.

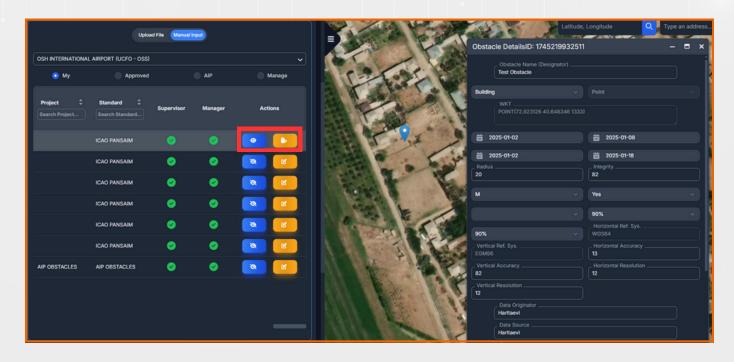


- Under the My submenu, the user can view, edit and delete all the content own added.
- Under the **Approved** submenu, the user can view all the content added by their team and approved by the Supervisor/Manager.
- Under the **AIP** submenu, users can see the AIP obstacles added to the database.
- Only Supervisor and Manager users can see the **Manage** submenu, they can approve or reject the content added by the people in their team.

#### **Obstacles Layer**

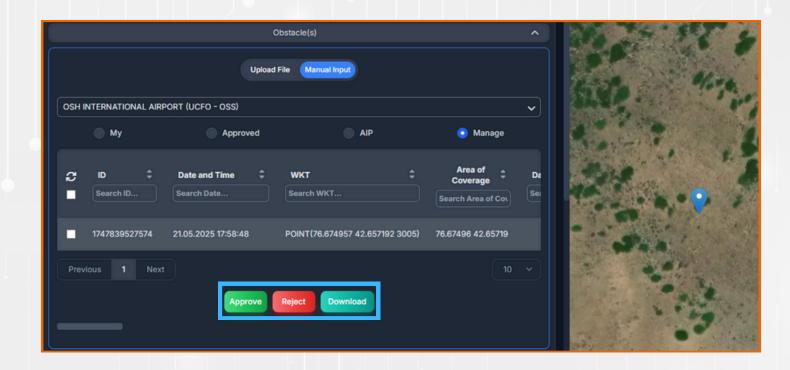


Users can view obstacles by clicking the View button.



• Users can edit own obstacles properties by clicking the **Edit** button.

## **Obstacles Layer**



- In the Manage sub-menu, if the user is a Supervisor(s), they can check the
  obstacles added by the Inspector(s), accept or reject them, if accepted,
  the record is added to the Manager's Manage sub-menu, and the record
  added by the Supervisor is also added to the Manager's Manage submenu.
- In the Manage submenu, the Manager(s) can check, accept or reject obstacles added by the Supervisor(s) and obstacles checked and approved by the Supervisor(s) by the Inspectors. If accepted, it will be registered in Approved sub-menu, if rejected, it will be registered in My sub-menu of the user who added it. Content added by the Manager is added directly to the Approved sub-menu.



#### CONCLUSION

The Obstacle Analyze is a product of Haritaevi Aviation Engineering Company.

Service will be provided for all kinds of questions and problems within the scope of Support and Maintenance Package through support@obstacleanalyze.com.

This document is intended for professional type users. If users need more information about the users and the system, please contact System Admin.

www.obstacleanalyze.com



