**Imperial or Metric Units in AutoCAD Plant 3D Project Setup**

When setting up a project in **AutoCAD Plant 3D**, you need to select either **Imperial** or **Metric** units based on your project's requirements. This will ensure consistency across your entire project, from **pipe routing** and **specifications** to **annotations** and **drawings**.

**🔹 Step 1: Open Project Setup**

1. **Launch AutoCAD Plant 3D**.
2. In the **Project Manager**, **right-click** on your project name and select **Project Setup**.

**🔹 Step 2: Set Project Units**

1. In the **Project Setup** window, find **General Settings**.
2. Under **Units**, you’ll see the option to choose between **Imperial** and **Metric** units.
   * **Imperial (inches, feet, pounds, etc.)**
   * **Metric (millimeters, meters, kilograms, etc.)**
3. Select your desired unit system:
   * **Imperial** if your project uses **inches**, **feet**, **pounds**, and other imperial units.
   * **Metric** if your project uses **millimeters**, **meters**, **kilograms**, and other metric units.

**🔹 Step 3: Assign Units to Specific Settings**

1. Under **Piping Specs**, **tagging**, and **annotations**, the selected unit system will dictate the:
   * **Nominal Pipe Sizes (NPS for Imperial or DN for Metric)**
   * **Pressure ratings (psi for Imperial or bar/Pa for Metric)**
   * **Material specifications** (e.g., inches vs. millimeters)
   * **Tagging format** (e.g., Imperial-style tags like **PMP-001** or **Valve-100** vs. Metric-style tags like **PMP-001-M**).
2. Ensure **appropriate settings** are applied to:
   * **P&ID diagrams**
   * **Pipe routing preferences**
   * **Isometric and orthographic drawing units**

**🔹 Step 4: Save and Apply Settings**

1. Once you have selected the unit system, **click OK** to save the settings.
2. **Restart** AutoCAD Plant 3D for the unit settings to apply across the entire project.

**🔹 Step 5: Model with Correct Units**

* After the project setup, ensure all **pipe specs**, **annotations**, and **drawings** conform to the unit system.
  + For **Imperial**, pipe sizes should be listed in **inches**.
  + For **Metric**, pipe sizes should be listed in **millimeters**.

**🔹 Step 6: Check and Validate the Units in the Model**

1. Use **Project Validation** and **Isometric Drawings** to ensure that all components are correctly placed and scaled according to the unit system chosen.
2. If needed, use **Data Manager** to verify that **material properties**, **component sizes**, and **tagging conventions** are consistent with the selected units.

**🔹 Summary**

✅ **Imperial or Metric Units** set in **Project Setup**.  
✅ **Piping Specs, Tagging, and Annotations** are consistent with the chosen unit system.  
✅ **Modeling, BOM, and Reports** automatically follow project-specific units.

Selecting the right unit system at the beginning of a project ensures **accuracy** and **uniformity** throughout the design and documentation process.