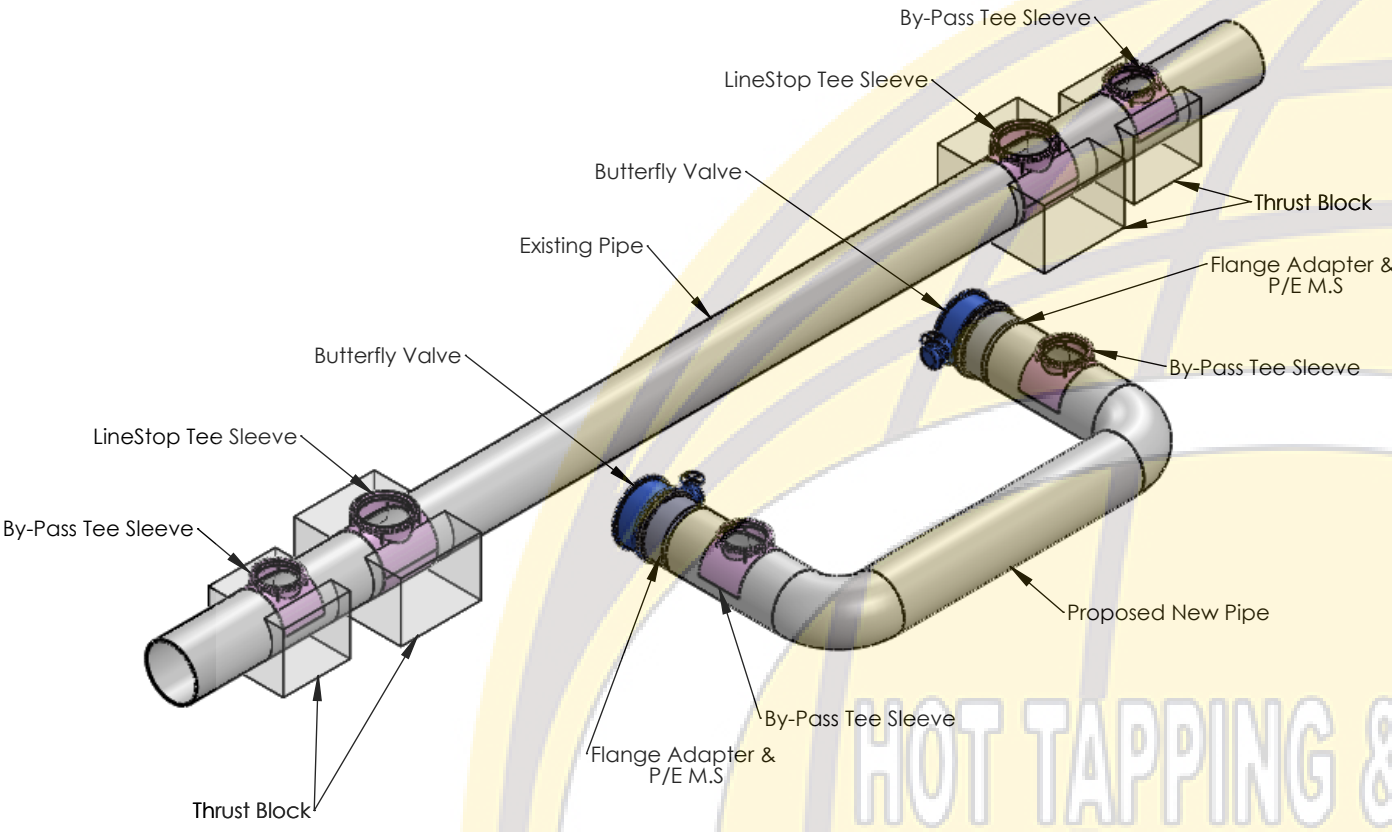


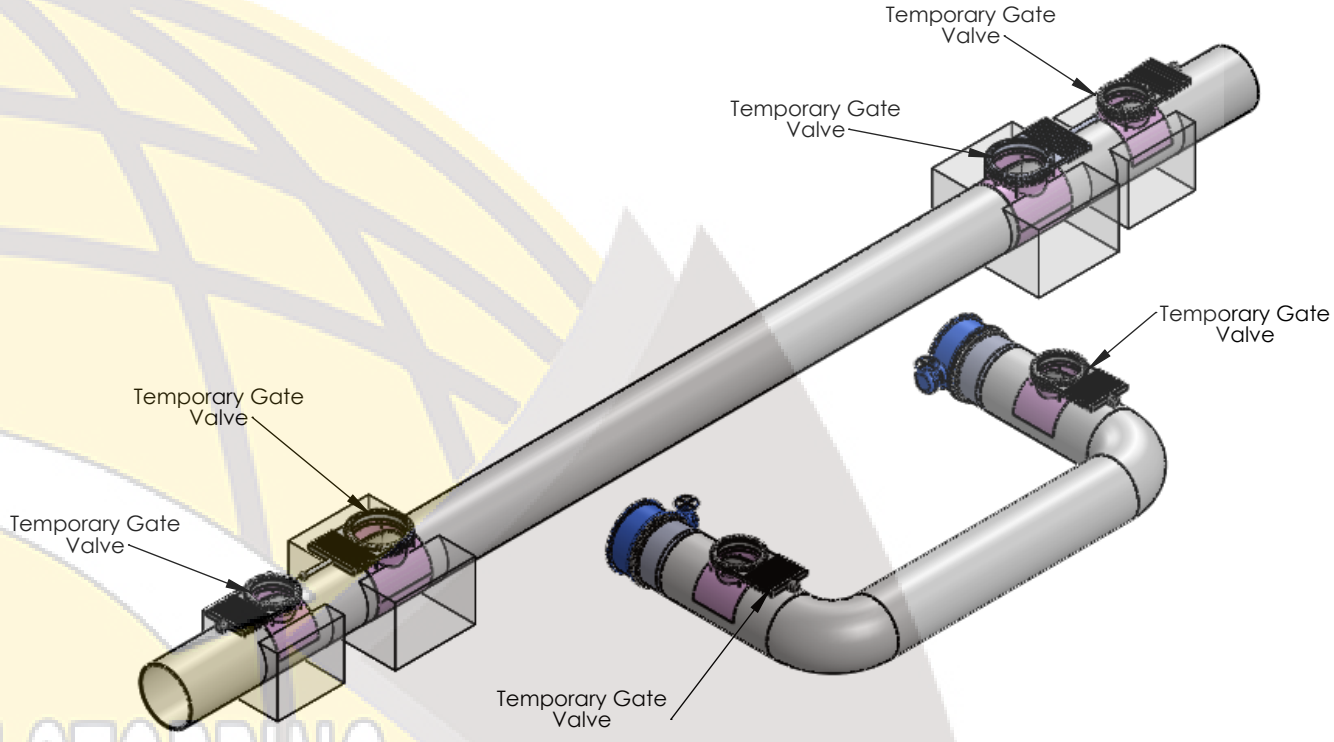
STEP 1

- PROCEDURES:
1. Line Stop tee sleeve and by-pass tee sleeve installation.
 2. Weld perimeter of the tee sleeve.



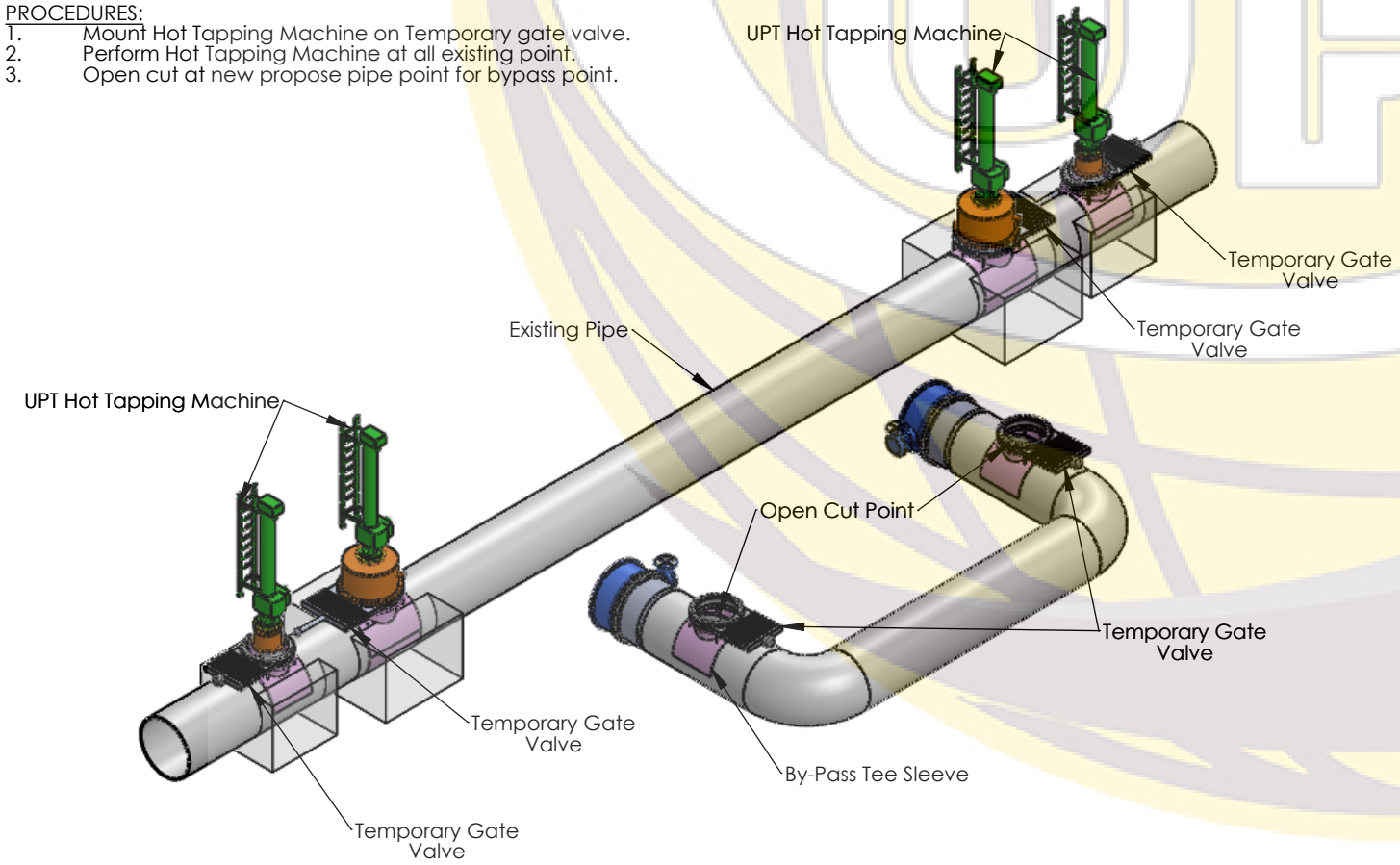
STEP 2

- PROCEDURES:
1. Temporary Gate Valve Installation.



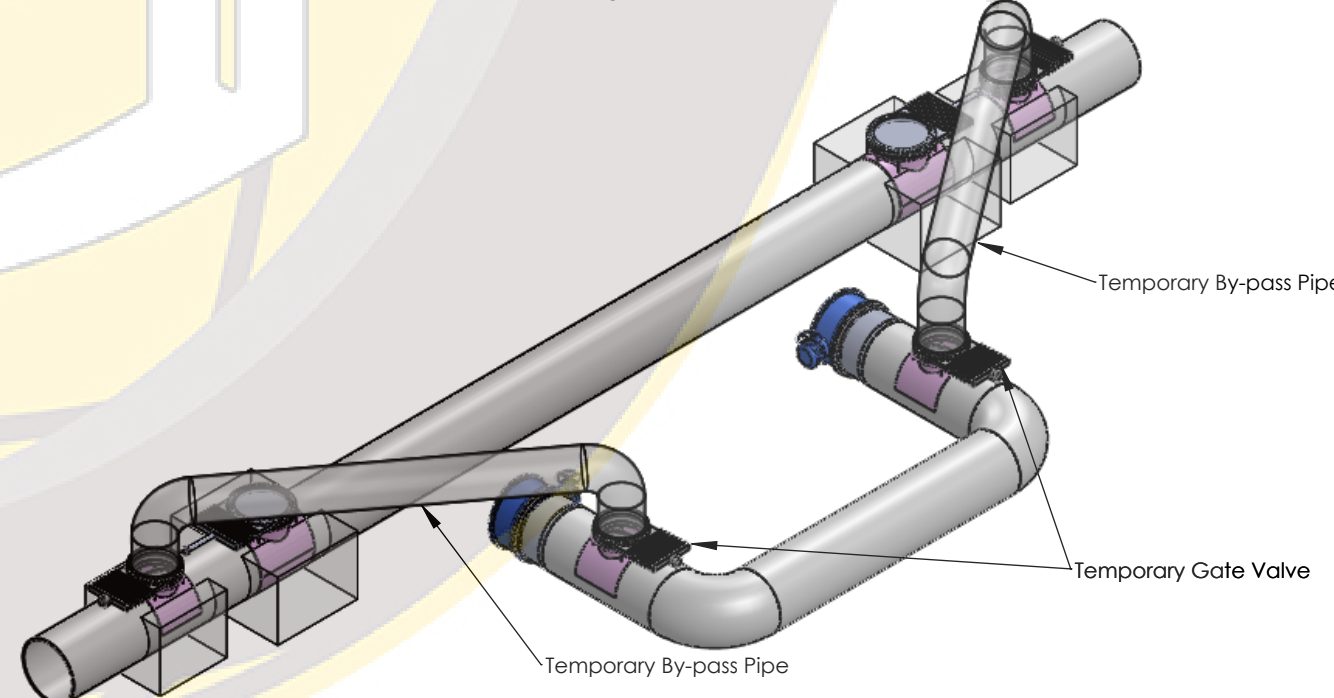
STEP 3

- PROCEDURES:
1. Mount Hot Tapping Machine on Temporary gate valve.
 2. Perform Hot Tapping Machine at all existing point.
 3. Open cut at new propose pipe point for bypass point.



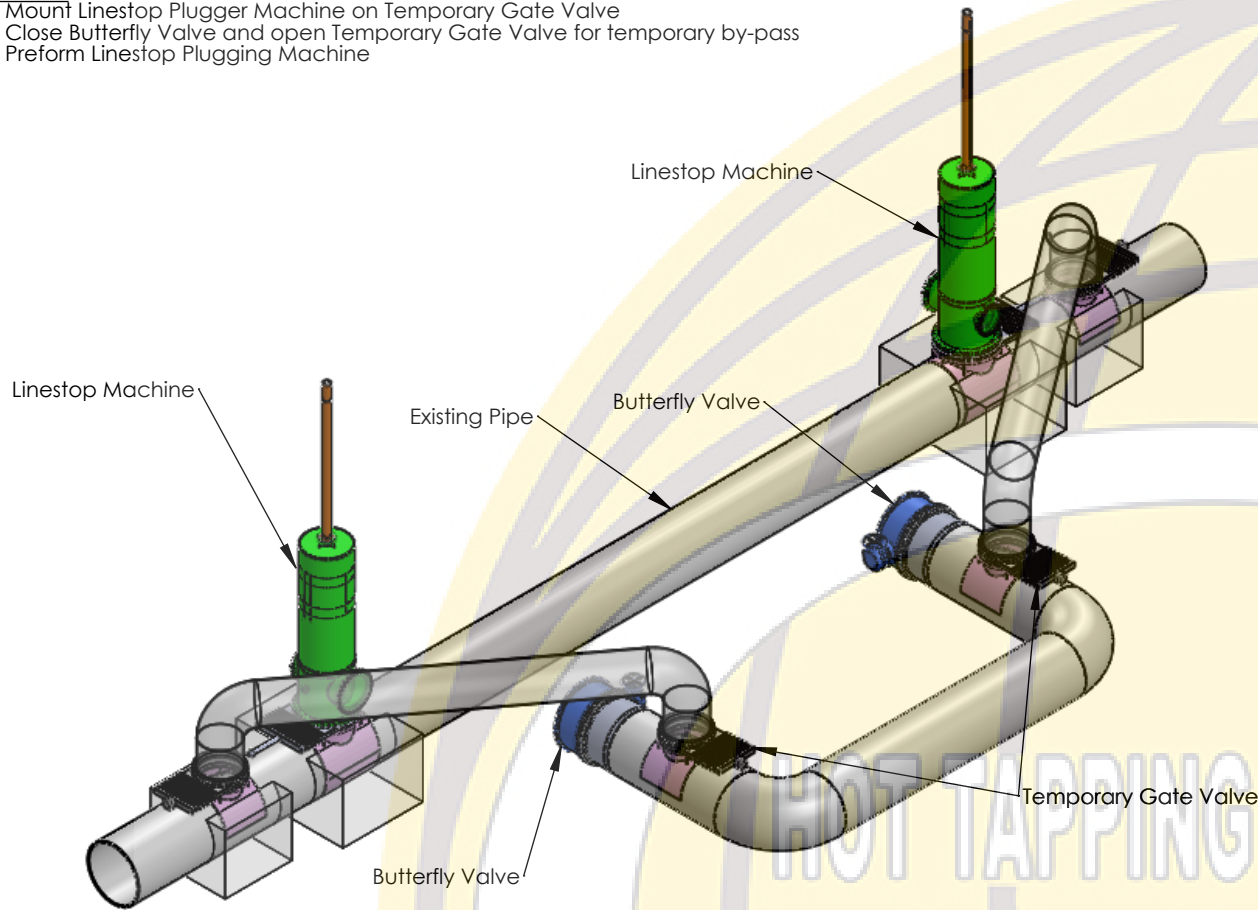
STEP 4

- PROCEDURES:
1. Removal Hot Tapping Machine.
 2. Temporary by-pass pipe will connect on the temporary gate valve at by-pass point.



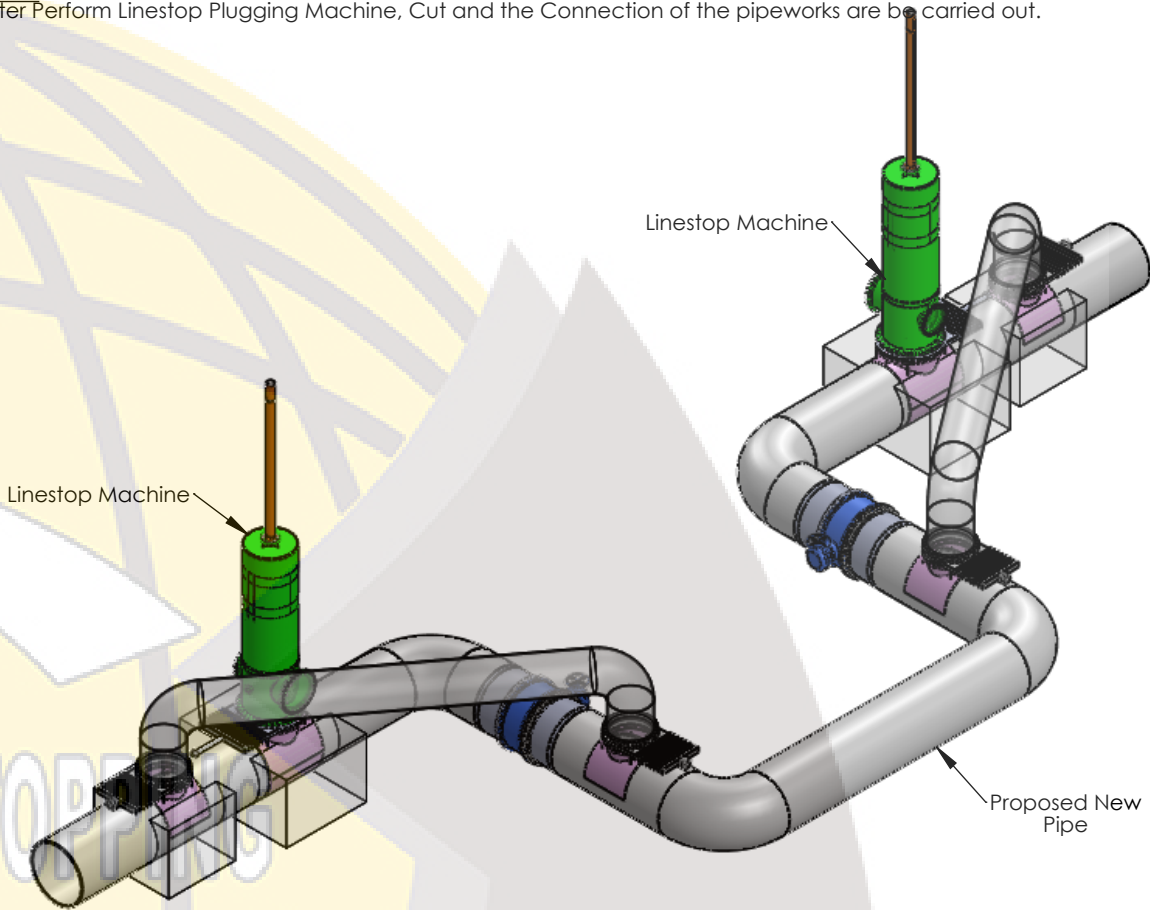
STEP 5

- PROCEDURES:
- 1. Mount Linestop Plugger Machine on Temporary Gate Valve
 - 2. Close Butterfly Valve and open Temporary Gate Valve for temporary by-pass
 - 3. Perform Linestop Plugging Machine



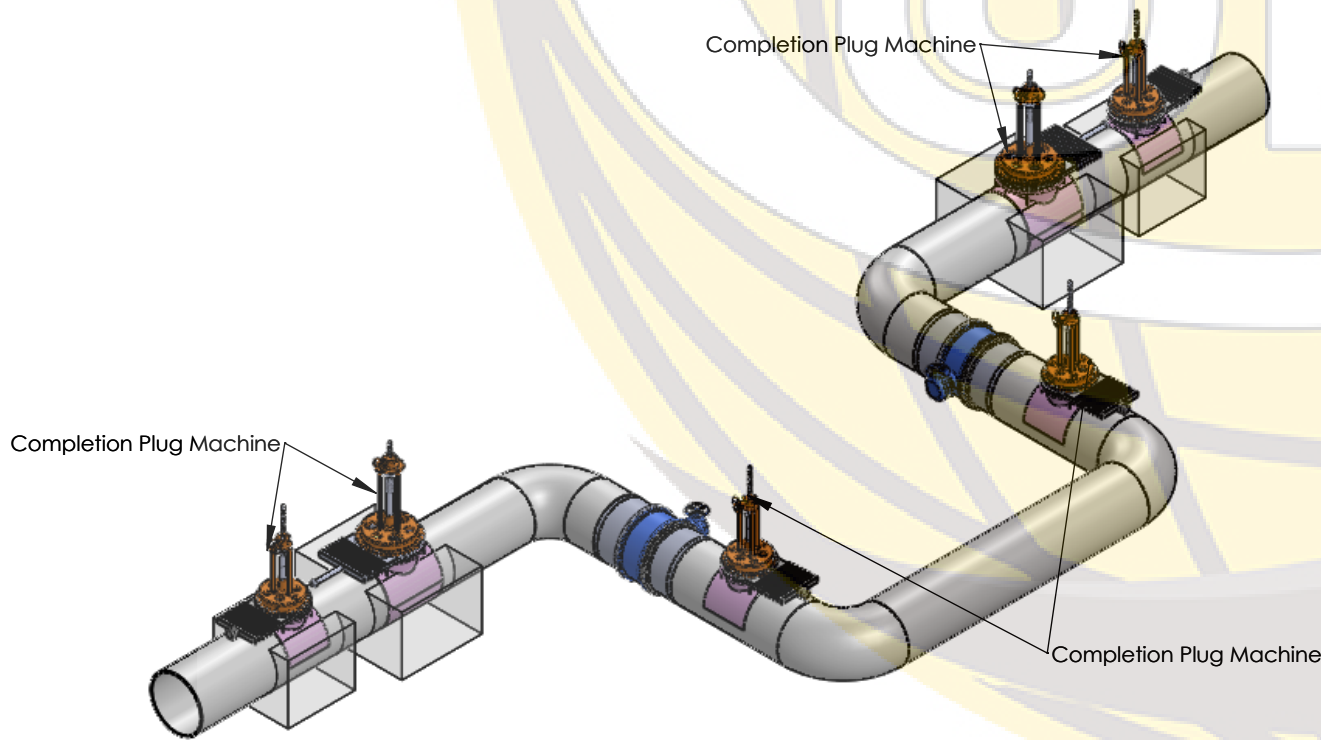
STEP 6

- PROCEDURES:
- 1. After Perform Linestop Plugging Machine, Cut and the Connection of the pipeworks are be carried out.



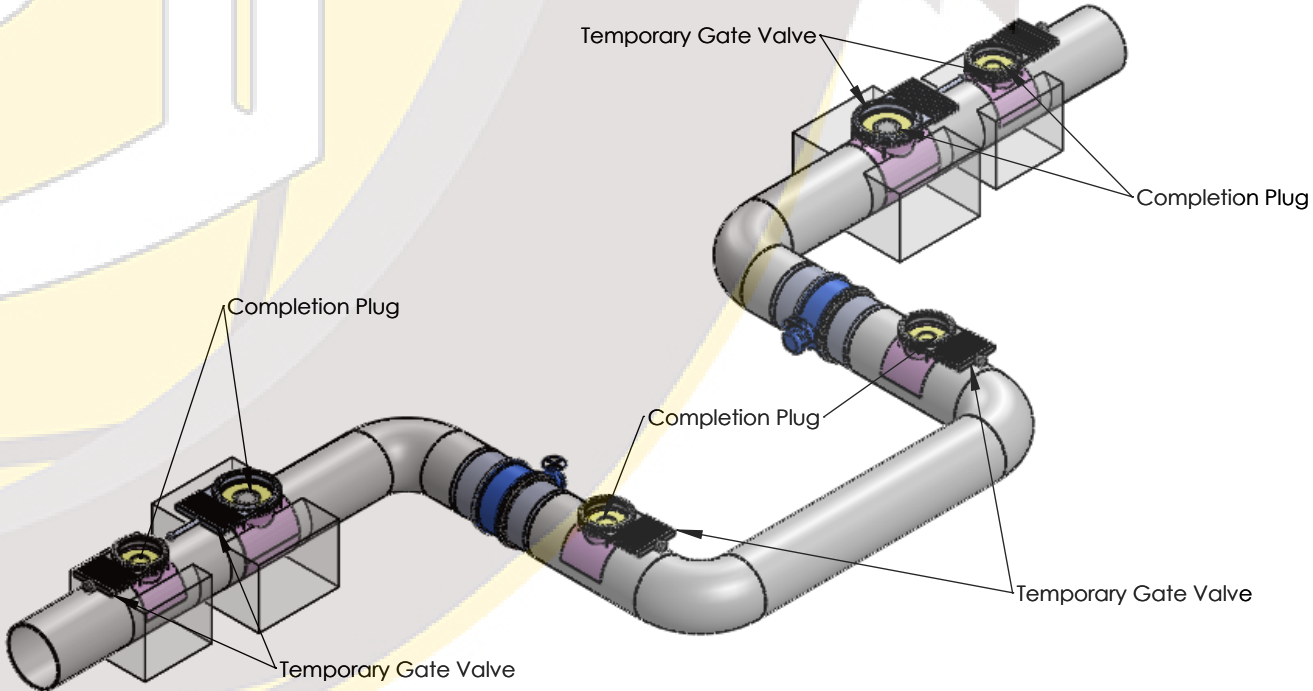
STEP 7

- PROCEDURES:
- 1. Finally, the removal of the Linestop Plugging Machine and temporary by-pass pipe.
 - 2. Installation of the Completion Plug Machine to remove all the Temporary Gate Valve.



STEP 8

- PROCEDURES:
- 1. Removal the Completion Plug Machine and completion plug will be locked with set screw from the side of flange of the Linestop Tee Sleeve.
 - 2. Then, removal all Temporary Gate Valve.



STEP 9

PROCEDURES:
T. Finally, Installation of Blank flanges with Bolt and nut.

