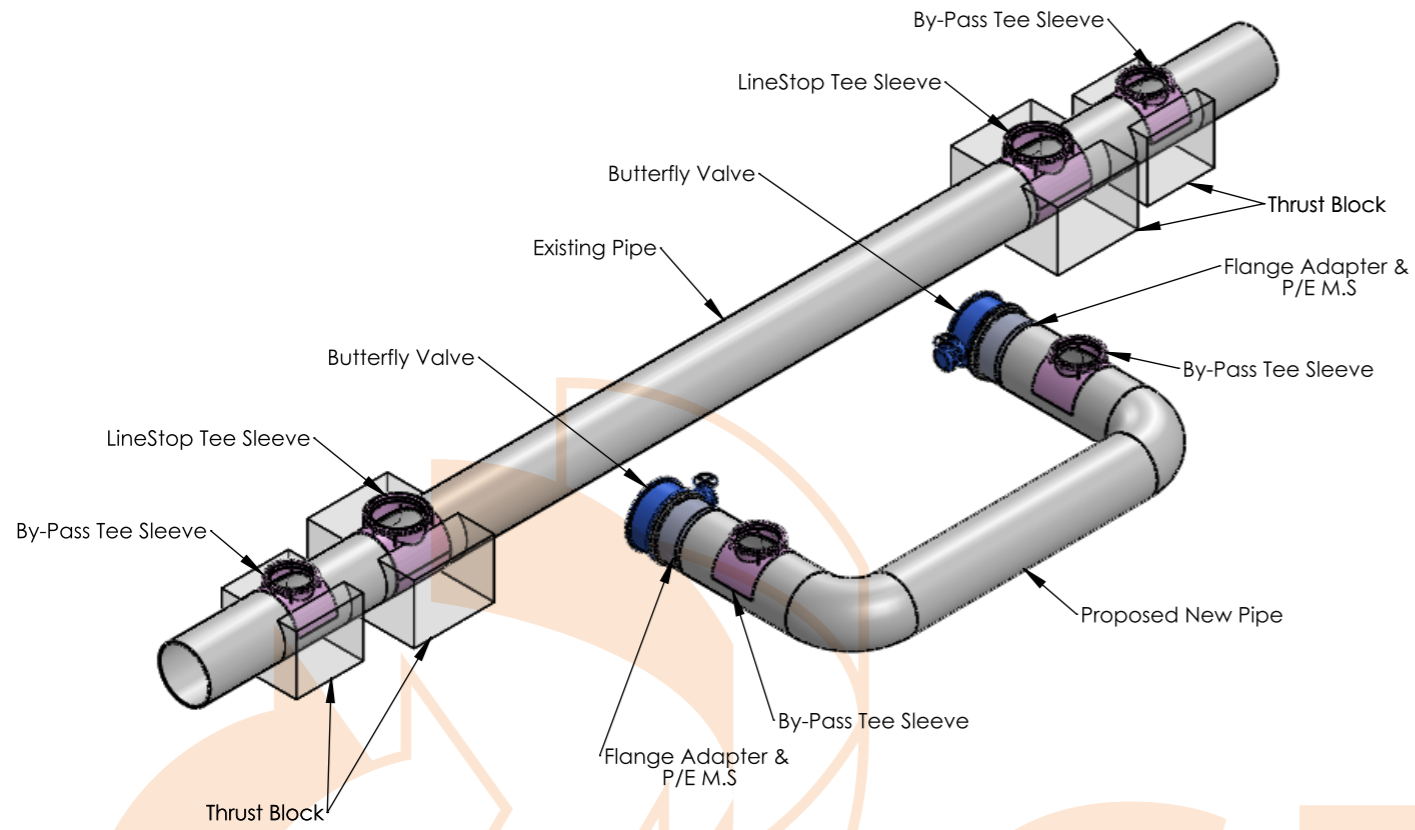


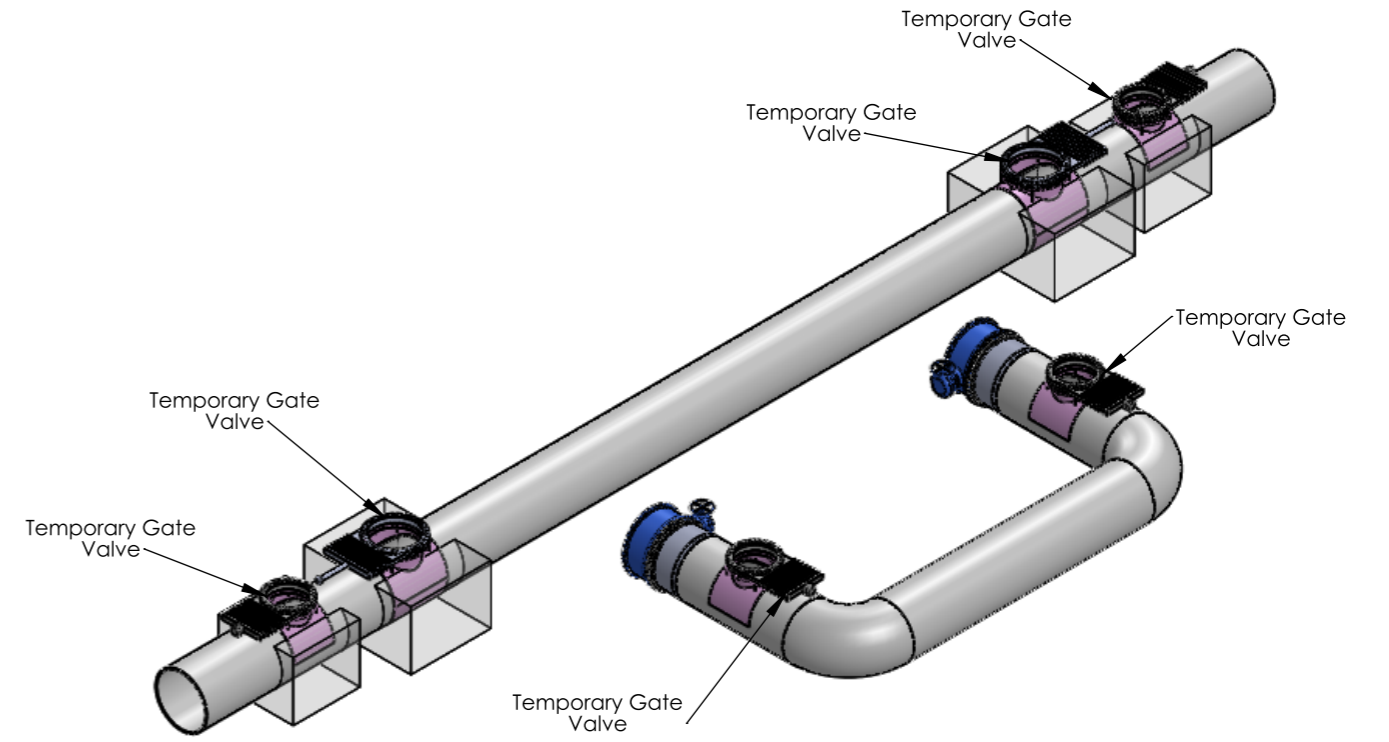
STEP 1

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



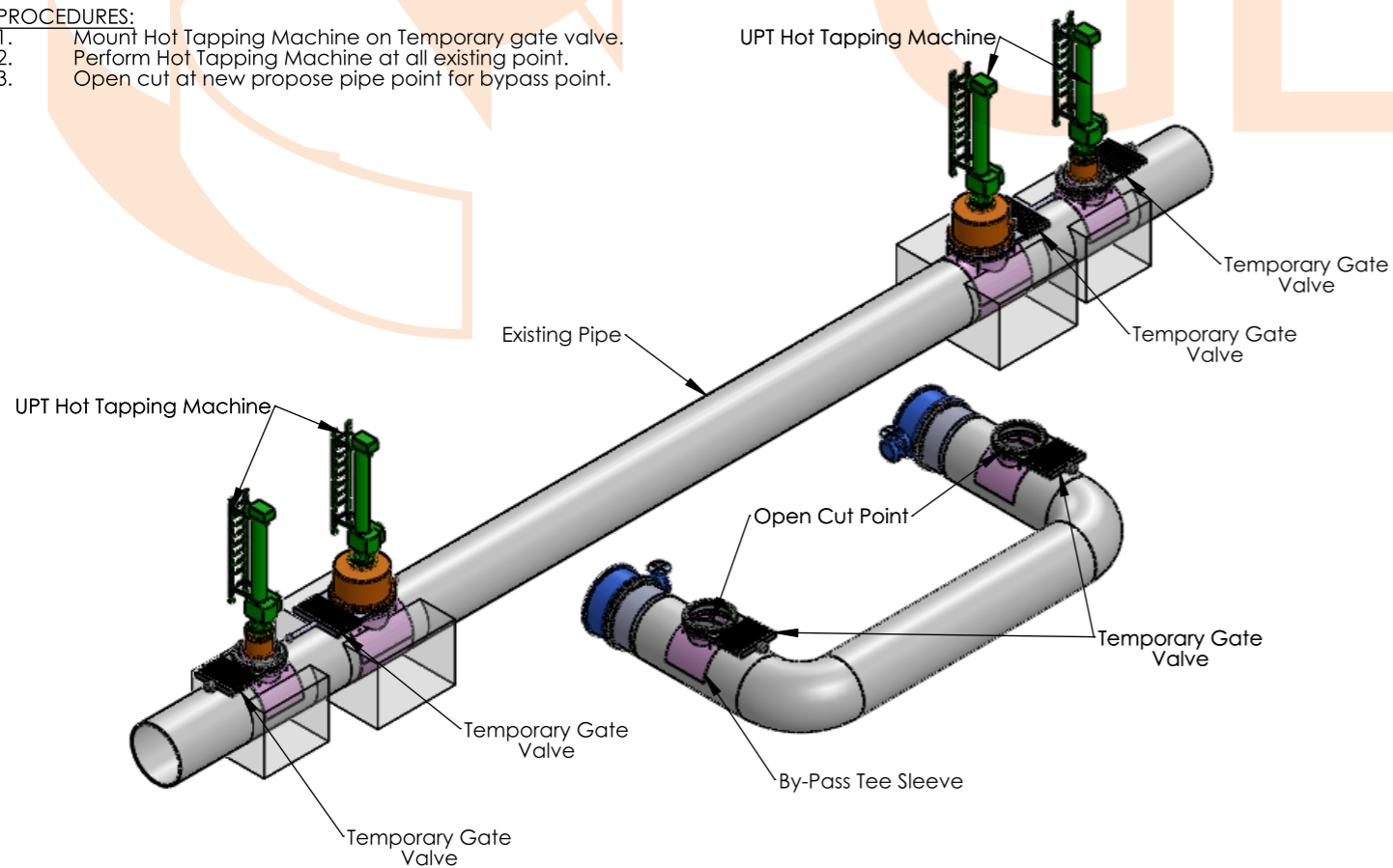
STEP 2

- PROCEDURES:
1. Temporary Gate Valve Installation.



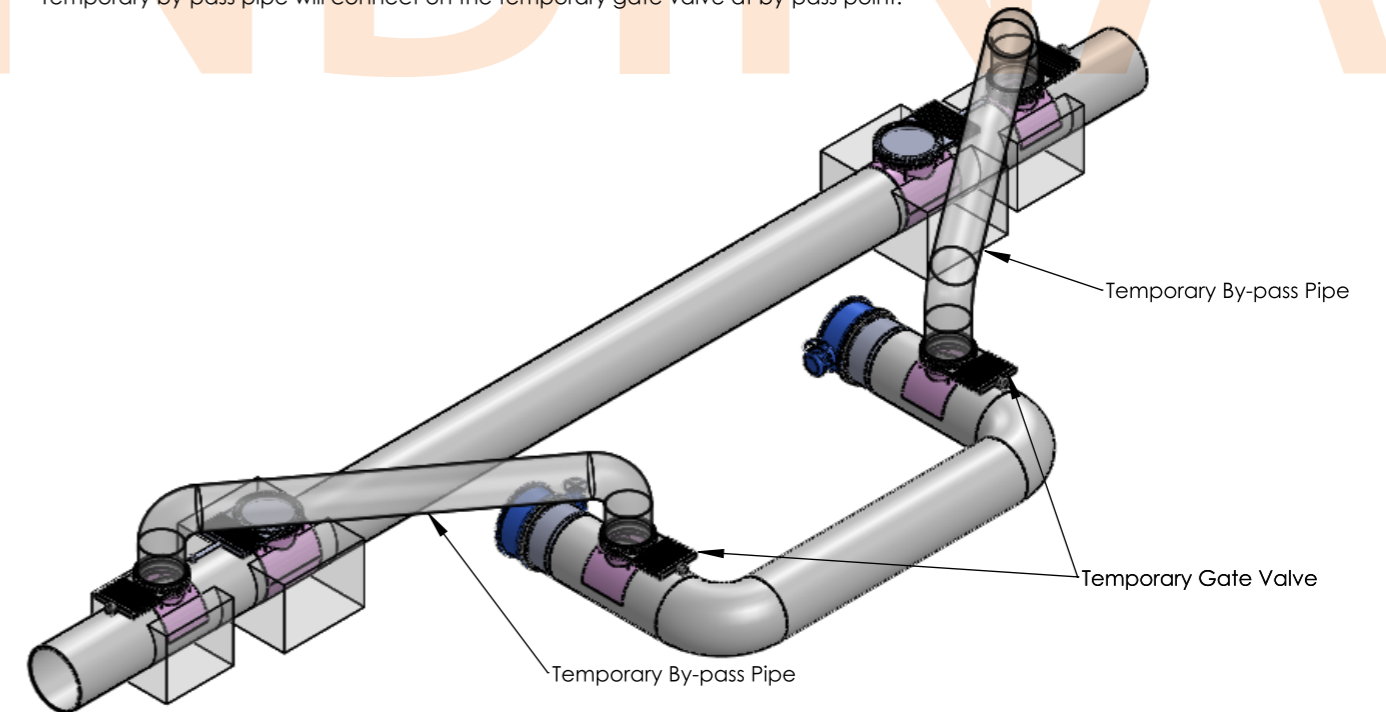
STEP 3

- 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

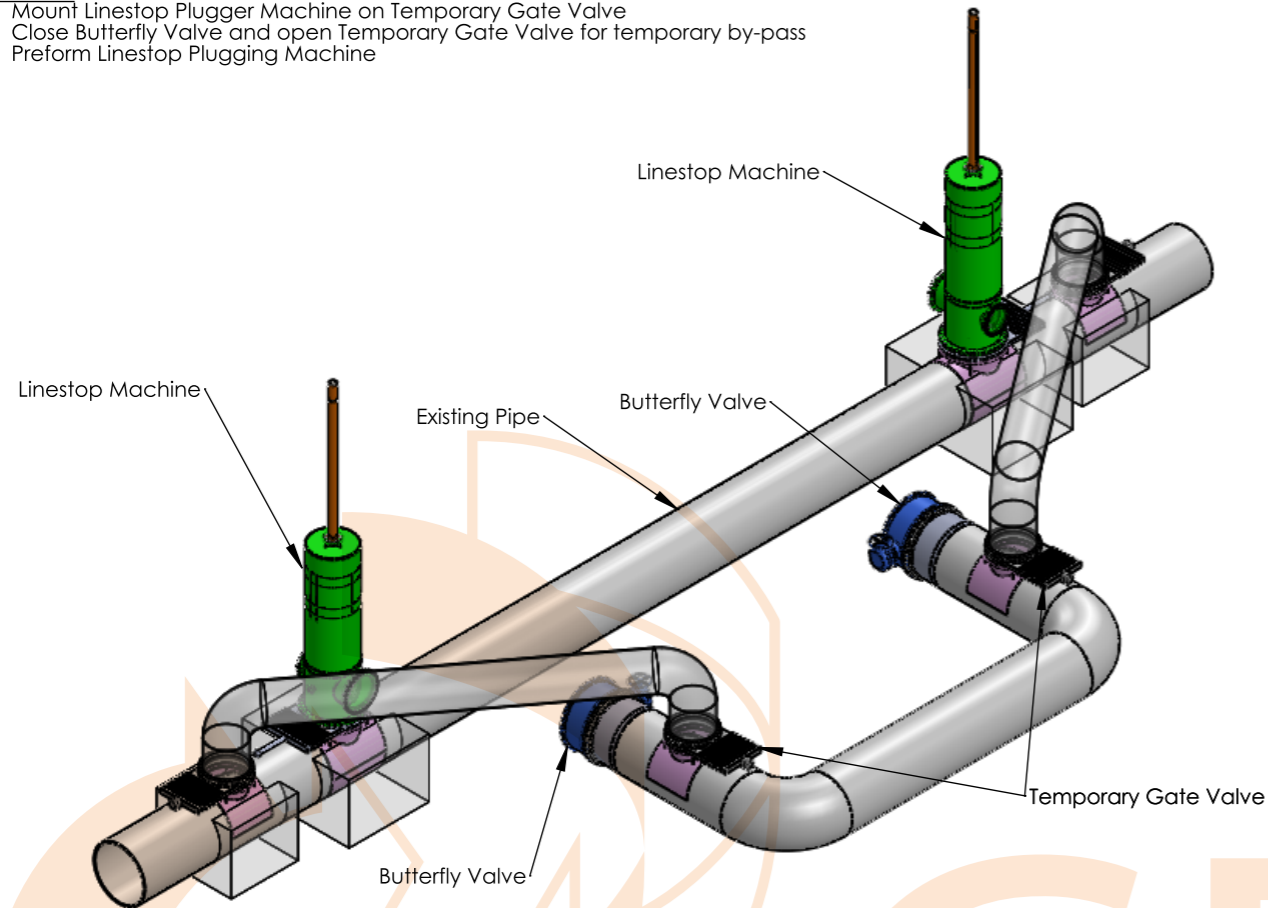
- PROCEDURES:
1. Removal Hot Tapping Machine.
 2. Temporary by-pass pipe will connect on the temporary gate valve at by-pass point.



STEP 5

PROCEDURES:

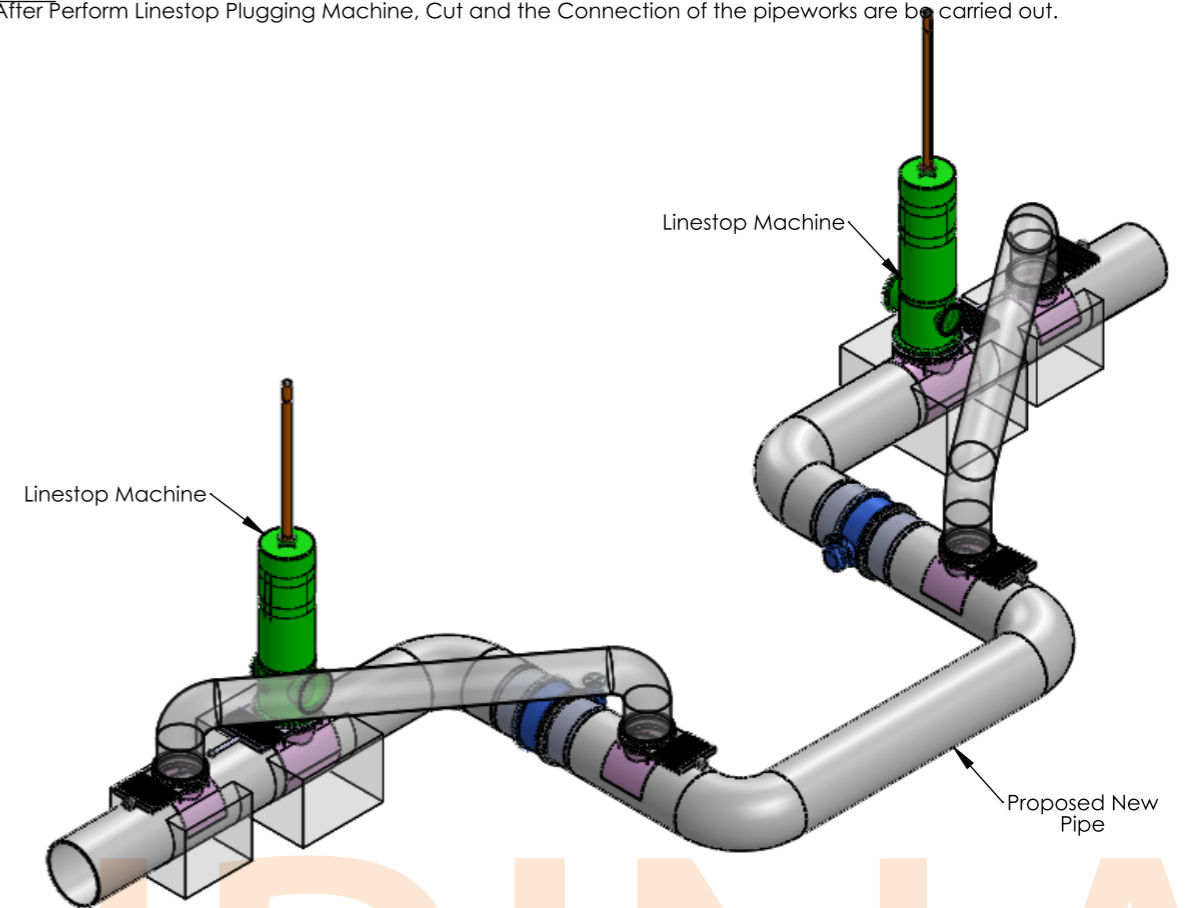
1. Mount Linestop Plugging Machine on Temporary Gate Valve
2. Close Butterfly Valve and open Temporary Gate Valve for temporary by-pass
3. Perform Linestop Plugging Machine



STEP 6

PROCEDURES:

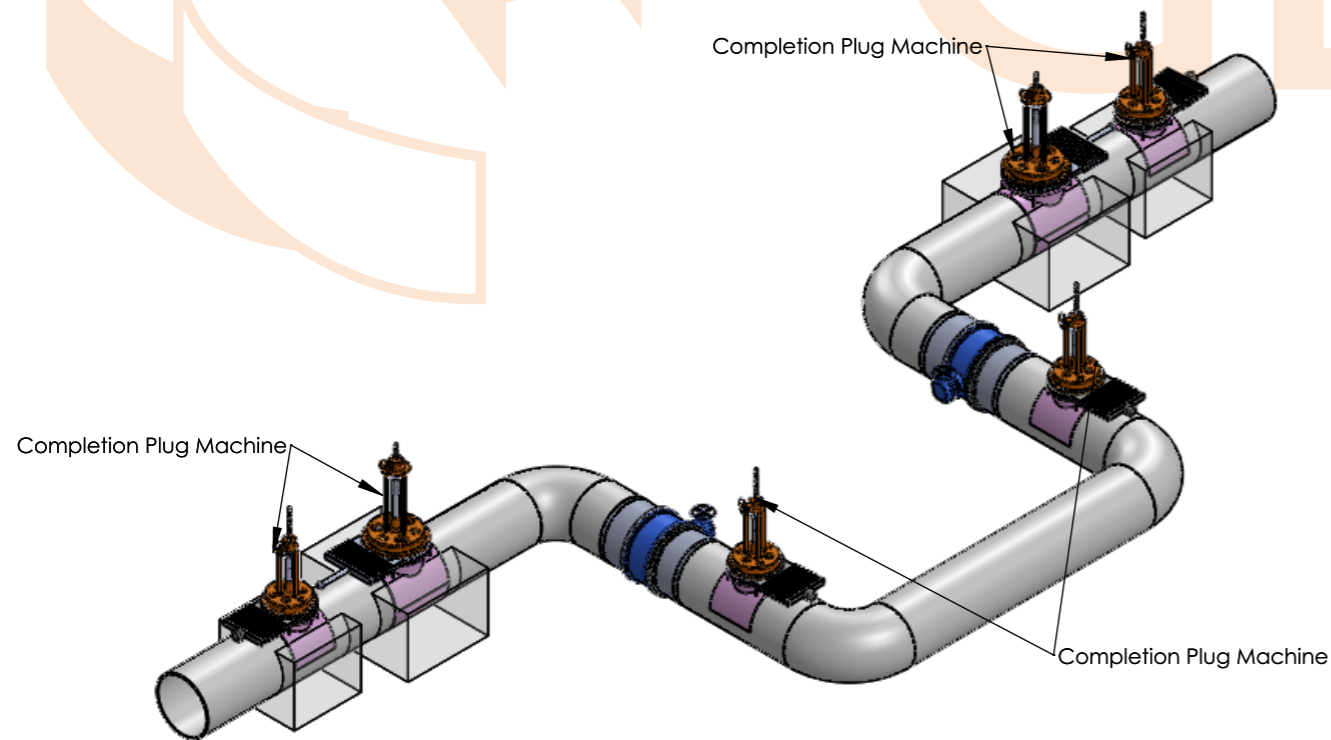
1. After Perform Linestop Plugging Machine, Cut and the Connection of the pipeworks are to be carried out.



STEP 7

PROCEDURES:

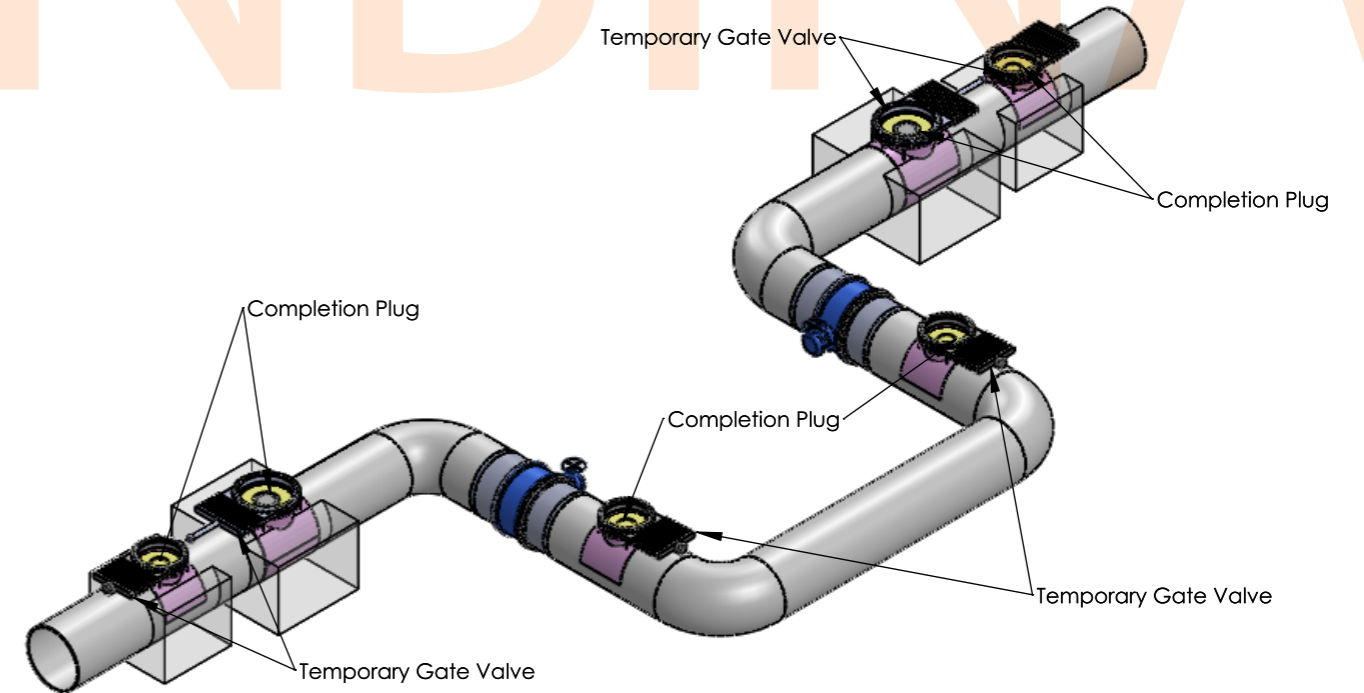
1. Finally, the removal of the Linestop Plugging Machine and temporary by-pass pipe.
2. Installation of the Completion Plug Machine to remove all the Temporary Gate Valve.



STEP 8

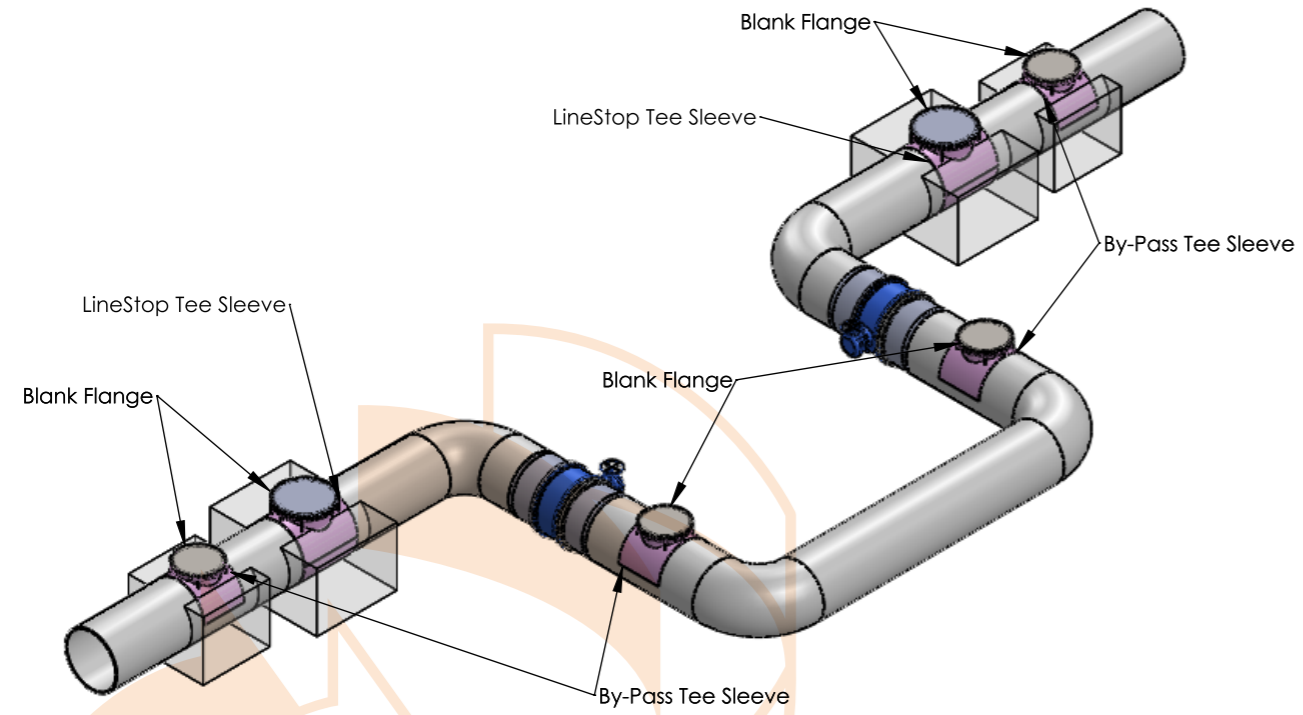
PROCEDURES:

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:
1. Finally, installation of Blank flanges with Bolt and nut.



GENBINA