



Foot operated water Tap

This document provides necessary details and instructions for making a Foot Operated Water Tap. The following materials are required to complete the unit.

List of material

- | | |
|------------------------------|----------------------------------|
| 1. Ball Cock Valve | - 1 No |
| 2. Flexible connecting hoses | - 02 Nos. |
| 3. Valve sockets | - 02 Nos. |
| 4. Sink | - 01 No. |
| 5. U- bolts (1- ½") | - 02 Nos. |
| 6. U- bolts (1") | - 02 Nos |
| 7. Angled Iron 3/4"x ¾"x 3mm | - 1-1/2 lgths |
| 8. 1-1/2" PVC | - 2 m |
| 9. ½" PVC pipe | - 2 m |
| 10. Others | - PVC joints, Sockets, Glue etc. |

Step by step Instructions with this diagram would be more helpful to make a Foot operated Water Tap. Instructions for making of the foot Operated Water Tap are given bellow for easy understanding to the reader.

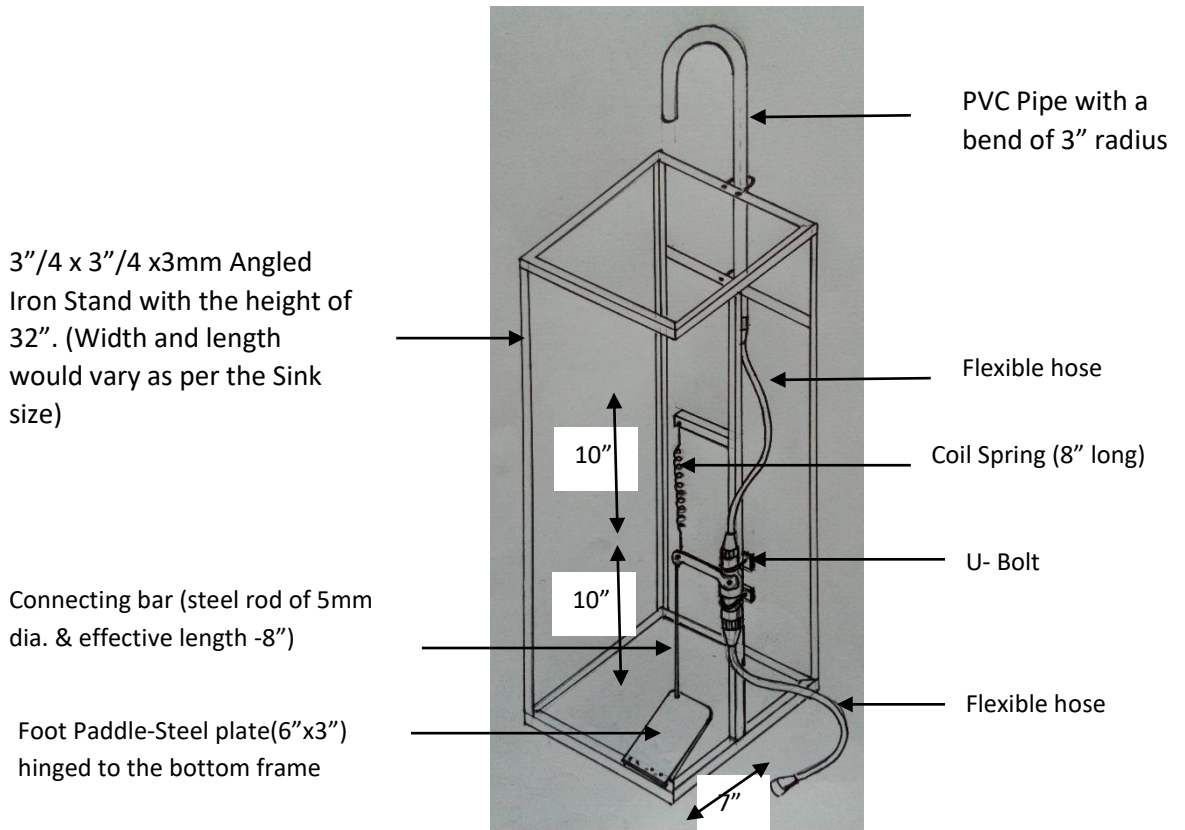


Fig. 1: Foot Operated Mechanism with the Angled Iron Stand



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මධ්‍යස්ථානය**
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Instructions

1. Prepare the base of the stand as per the dimensions of the Sink to be used. Use $\frac{3}{4}$ "x $\frac{3}{4}$ "x 3mm Angled Iron for making the base frame and the stand.
2. Fix the Foot Paddle (6"x3"MS plate of 3 mm thick) on the base frame using a butterfly hinge at the right front edge of the base as shown. (Make sure to drill a hole of 4 mm diameter at top right corner of the foot paddle.)
3. Take an angled Iron of 32" long and get a piece of angled iron [$(\frac{3}{4}$ "x $\frac{3}{4}$ " x 3mm) 4" (100 mm) long] welded perpendicularly, at a distance 20" from one end of the angled Iron and get welded to the base frame perpendicularly, at distance of 7" from the front right edge as shown. (Make sure to drill a hole at other end of the angled iron before welding.)
4. Fix the Ball Cock valve on the angled iron welded, using two U-bolts about 10" above from the base plate. (make sure to drill a hole of 4 mm diameter at the end of the Ball Cock valve lever.)
5. Fix the Coil spring in between the angled Iron and Valve lever as shown.
6. Connect lever end and the Foot Paddle using a connecting bar of 8" long. (Make sure to prepare two hooks at both ends of the connecting bar in order to secure the connections. Therefore, take a rod of 10" long including additional length for hooks)
7. Make the Stand using $\frac{3}{4}$ "x $\frac{3}{4}$ "x 3mm size Angled Iron with a height of 32". Make sure to get the Sink dimensions in deciding the length and width of the stand.
8. Fix the $\frac{1}{2}$ " PVC pipe formed as a bend of U, on to the back side of the stand frame as shown.
9. Connect the flexible hose at upper side of the Ball Cock Valve to the PVC pipe using appropriate connectors.
10. Connect the flexible hose at lower side of the Ball Cock Valve to the water inlet using the appropriate method.
11. Fix the Sink on the Stand and connect the waste with the down pipe using appropriate bends and connectors depending upon the place.

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