



# CSIR-Central Mechanical Engineering Research Institute Mahatma Gandhi Avenue, Durgapur - 713209

## Touch less Soap and Water Dispenser Unit:

The CSIR-CMERI developed Touch less Soap and Water Dispenser Unit for preventive measure to contain the spread of COVID-19. This unit can be installed on any type of existing water Basin/Sink. There are two (02) nos. of proximity sensors in this unit which is used to detect the hand for automatic dispensing of liquid soap and water consecutively. There is a Solenoid Valve which has to be installed on the water line of the Basin before entering into the Water Tap. For dispensing of soap one (01) no. of submersible DC pump is used.

This Touch less Soap and Water Dispenser Unit can be deployed in various places like Shopping Malls, Hospitals, Office premises, Public Toilet etc. Compare to the normal Wash Basin, the user can wash and sanitize hands without touching either Soap Dispenser Unit or Water Tap.

## Electronics Module:

- IR based Proximity Sensor:
  - Onboard detection indication
  - Detection distance: 2 ~ 30cm
  - Detection angle: 35 °
  - A preset knob to fine-tune distance range
  
- DC Submersible Water Pump:
  - Operating Voltage : 1.5 ~ 6V
  - Operating Current : 290 ~ 320mA
  - Flow Rate : 80 ~ 120 L/H
  - Maximum Lift : 40 ~ 110 mm
  
- Solenoid Inlet Valve:
  - Rated Voltage: 12V
  - Type: Normally Closed
  - Pipe Inside Diameter: 1/2 inch
  - Working Water Pressure: 0.02 to 0.8Mpa



*Installed at Institute Main Gate*



*Installed at CSIR-CMERI Guest House*

## Salient Features:

- Contactless
- Range Adjustable Proximity Sensor
- Optimal use of Soap
- Low Cost Maintenance
- Easy to installed

## Technology Transfer Fee:

Rs. 25,000/- (Rupees Twenty Five Thousand only) inclusive GST (For MSME)

*For further details please contact  
Mr. Jnanendra Prasad Maji, Senior Technical Officer  
Phone: 9434921375; E-mail: jp\_maji@cmeri.res.in*

