



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

## Portable Touch free Soap-cum-Water Dispensing System:

In the context of practicing good hygiene, Portable Touch free Soap-cum-Water Dispensing System by CSIR-CMERI is unique in its own as soap and water are being dispensed at a fixed interval from the same tap.

When a person approaches the sensor (IR) on the portable soap-cum-water dispenser, a predefined amount of soap (a few millilitres) will be dispensed from the tap, momentarily. After rubbing his hand for twenty (20) seconds, clean water is dispensed from the same tap. The arrangement aims to reduce wastage of water as well. Internally, the 220 V AC line is used for soap dispensing as well as generating a 12 V DC line for powering the rest of the electronics circuit. The system is currently installed at the CSIR-CMERI main gate and is operational.



*Portable Touch Free Soap-cum-Water Dispensing System*

## Novelty of the System:

- Portable and touchless dispenser
- Single tap dispenser for soap as well as water
- Single IR sensor for both soap and water
- Minimal water usage (400 ml approx.)
- Easy to install
- Tank Capacity (Liquid Soap): 250ml
- Two variants: 1) Table top  
2) Wall mount
- Material used: 1) Acrylic (more attractive)  
2) Powder coated steel (more durable)
- Dimension: 135x135x170 mm (for 250 ml dispenser)  
135x135x210 mm (for 1000 ml dispenser)

## Technology Transfer Fee:

Rs. 2.5 Lakh including GST (For MSME)

*For further details please contact*  
**Dr. Siva Ram Krishna Vadali, Principal Scientist**  
**Phone: 7602881028; E-mail: [srk\\_vadali@cmeri.res.in](mailto:srk_vadali@cmeri.res.in)**

