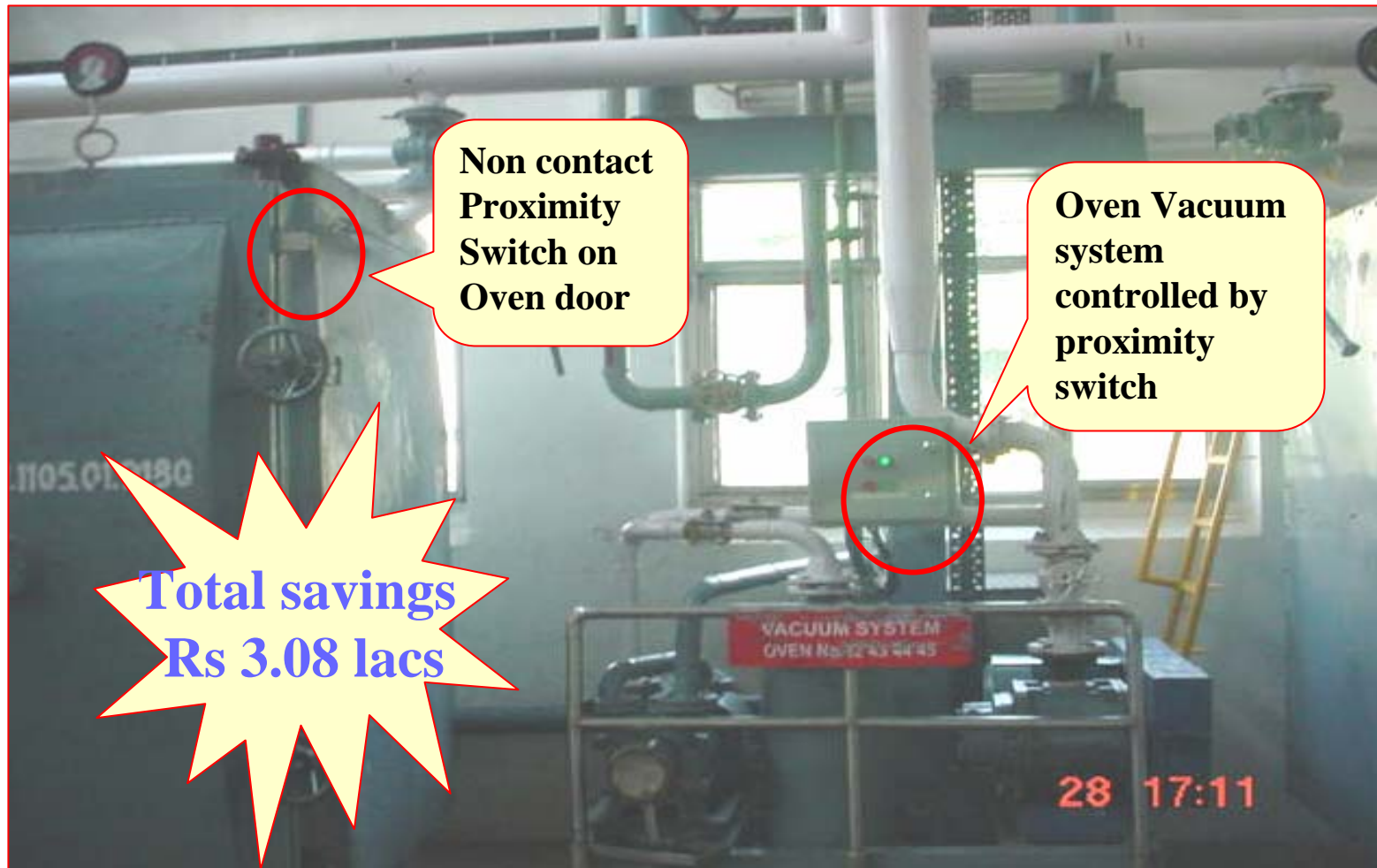
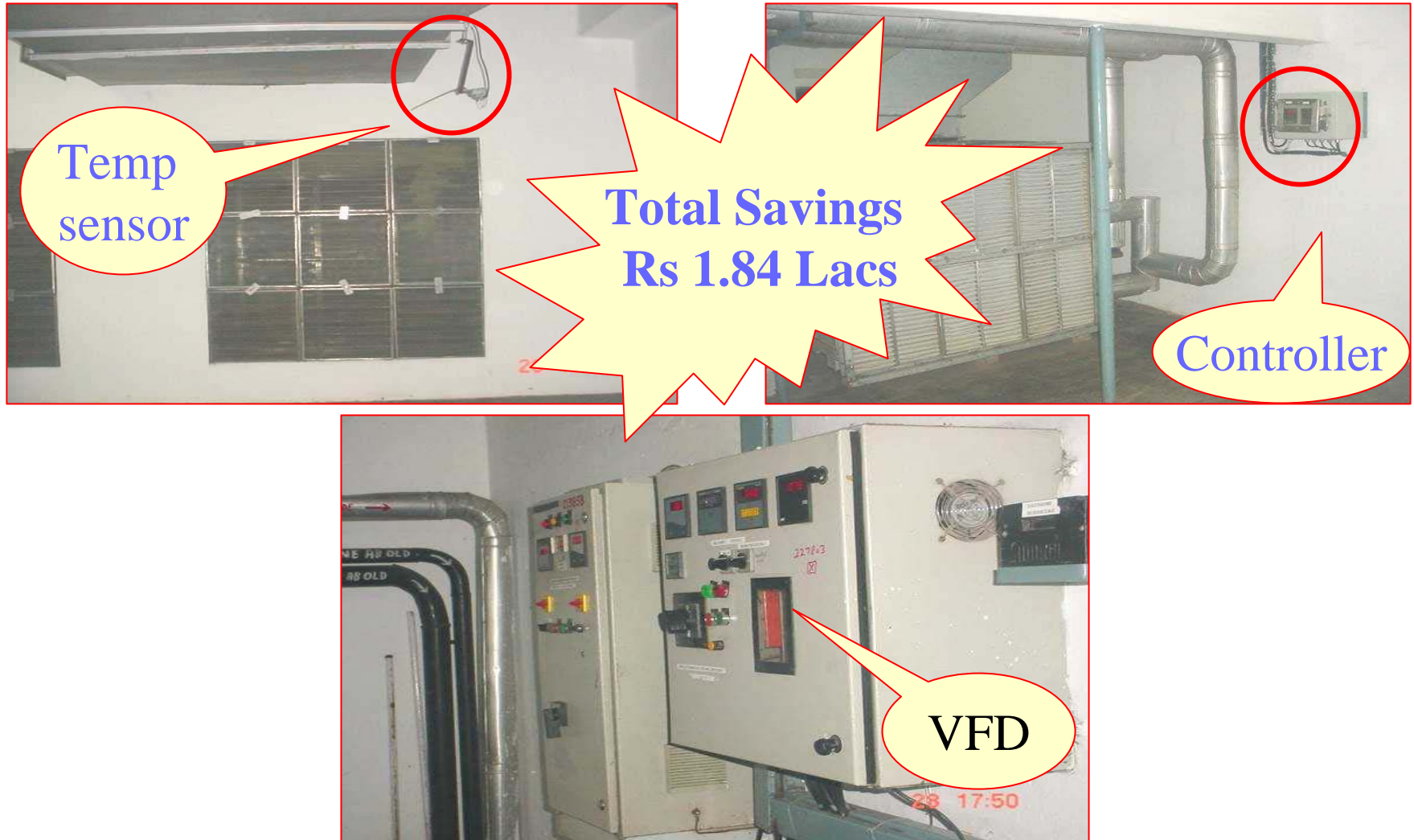


# Optimized running of Ovens vacuum system



The Non contact Proximity switch provided on the oven door stops the Vacuum system during the charging time of the oven thereby resulting in reduced power consumption.

# Optimized running of Air Handling Unit by installing PID controlled VFD



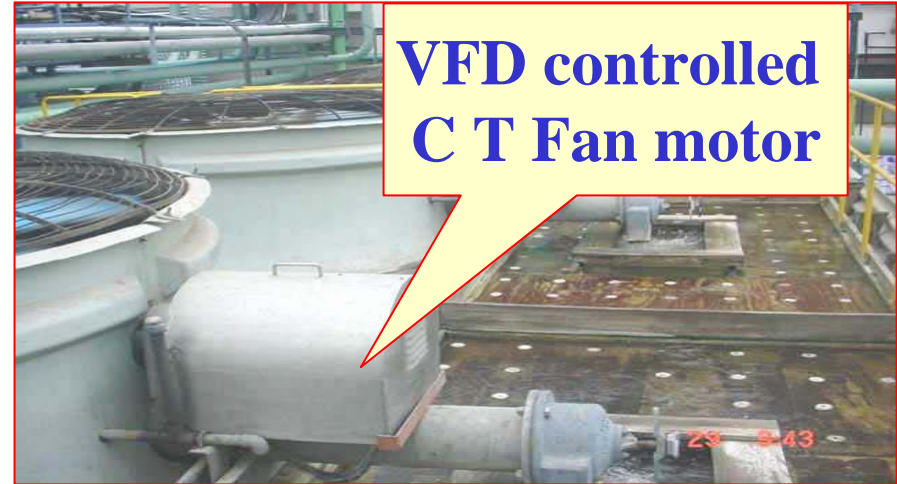
The controller provided in AHU interprets the temperature of the AHU from the Temperature sensor & accordingly the speed of the motor for AHU is controlled by the VFD, resulting in conversion of the Fixed cost into variable cost.

# Optimized running of Cooling Tower fans

**Temperature  
Controller**



**VFD controlled  
C T Fan motor**



**Temperature  
sensor**



**Total savings  
Rs 7.96 lacs**

The controller provided in cooling tower pump house interprets the temperature of the cold water in the header from the sensor provided in the header & accordingly the speed of the motor for C T Fan is controlled by the VFD, resulting in conversion of the Fixed cost into variable cost.

# Optimized running of Air Conditioning Plants

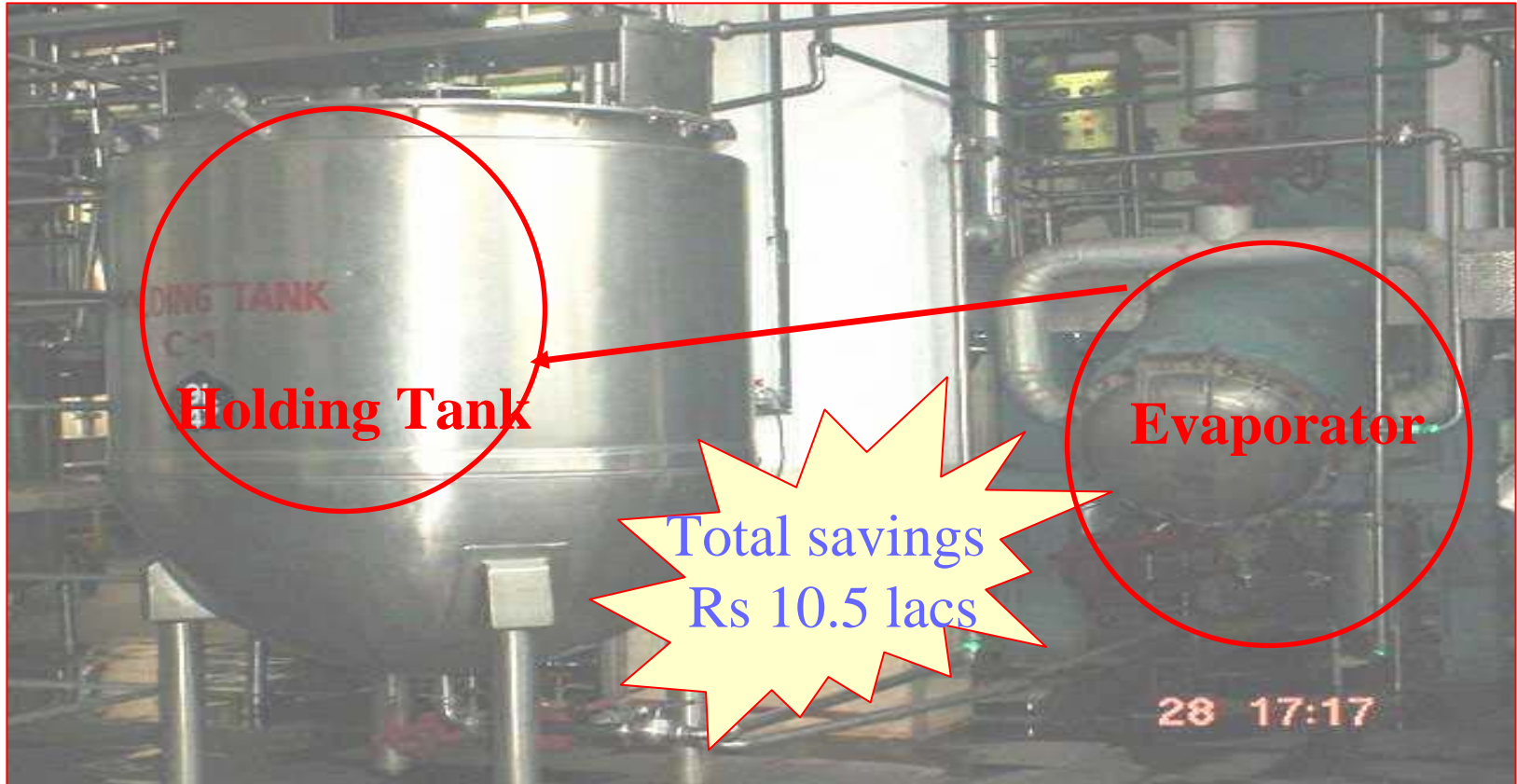
Total savings  
Rs. 1.98 Lacs

**Chilled water distribution**

**Common header for creating flexibility for chilled water**

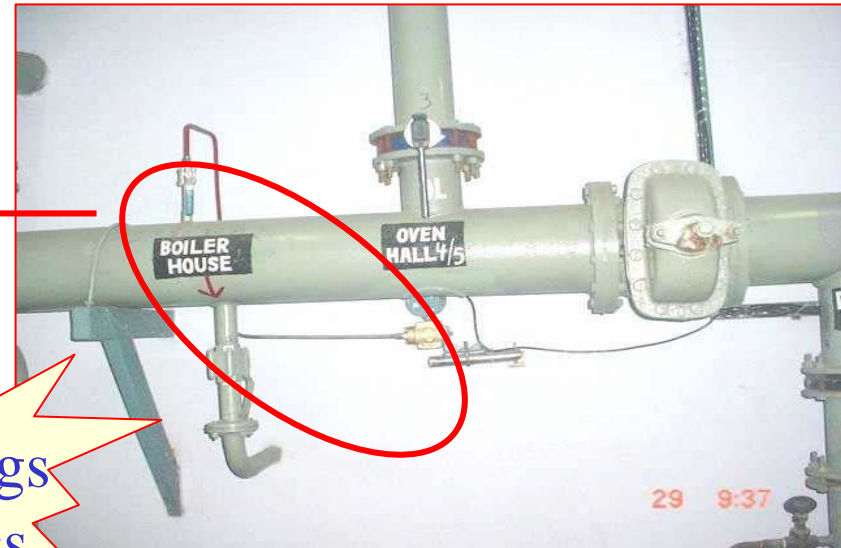
The common header for chilled water required for various sections in the Manufacturing & other areas has resulted in reduced power consumption for the Air conditioning plants due to their optimum running.

## Optimized running of First Effect Evaporators



First effect Evaporator is used for heating the low solid washout during the Multi effect evaporator cleaning. The Evaporator consumes high steam at the rate of 1500 Kg/Hr. Alternatively it was decided to heat the low solid washout in spare tank without compromising on quality & throughput. The steam consumption of the tank is 80 Kg/hr.

# Optimized running of the Cold water pump



Total savings  
Rs 2.6 Lacs

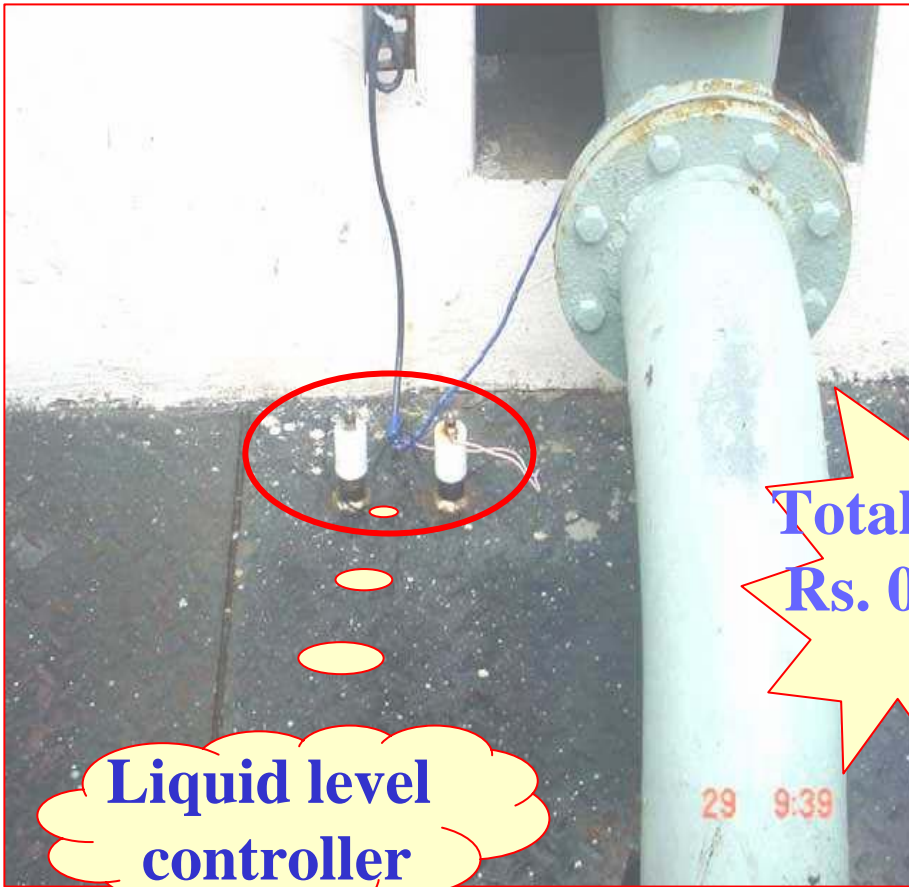
**VFD for Cold  
water pump**



**Process  
controller**

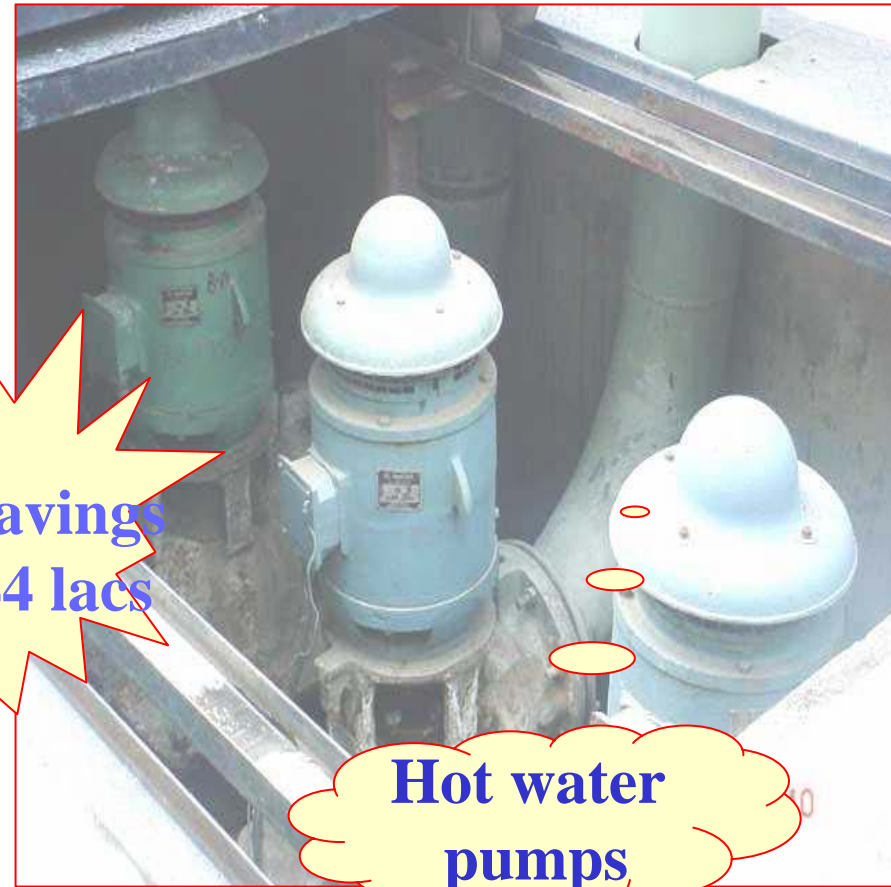
The controller provided in cooling tower pump house interprets the pressure in the cold water header & accordingly the speed of the motor for Cold water pumps is controlled by the VFD, resulting in conversion of the Fixed cost into variable cost.

# Optimized running of the Hot water pump



**Liquid level controller**

**Total savings  
Rs. 0.44 lacs**



**Hot water pumps**

The liquid level controller provided in cold water sump controls the running of the hot water pump thereby leading to reduction in Power consumption.