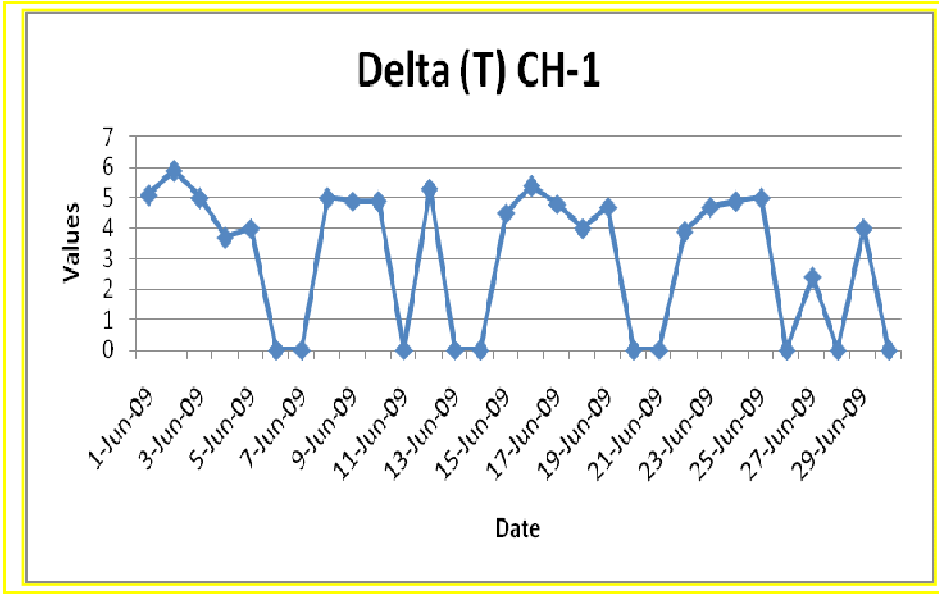


# HVAC Cooling Water System – Delta (T) Trends (Ie. Difference between Inlet Temp. & Outlet Temp.)

## BEFORE MERUS INSTALLATION

Temperature - 5 to 6 Deg C

**June  
2009**

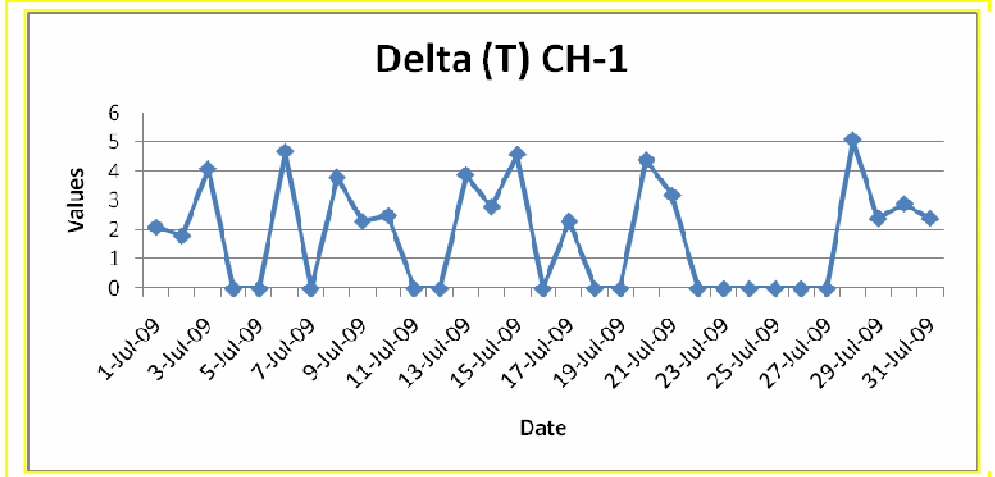


**Note : The required cooling water temperature should be 4 to 5 Deg C. Because of scale formation the system is at 5 to 6 Deg C. This results in efficiency coming down.**

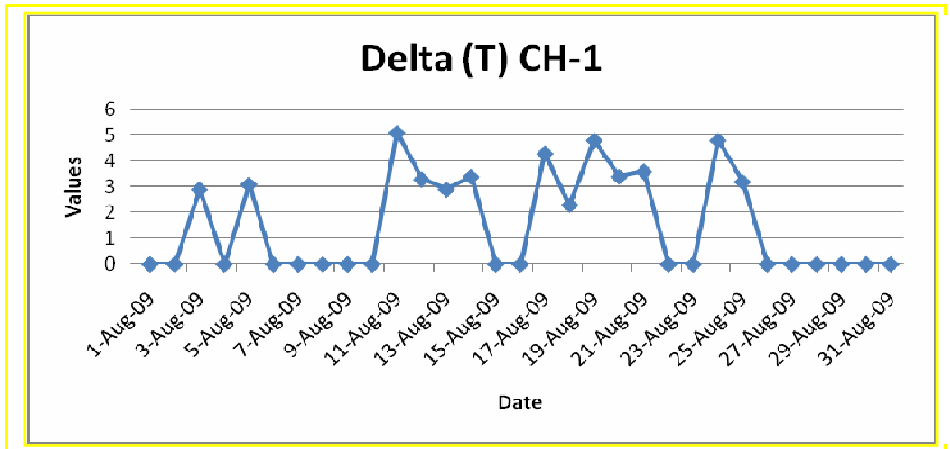
## AFTER MERUS INSTALLATION

Temperature reduced - 1 Deg C from 5- 6 Deg C to 4-5 Deg C)

**July 2009**



**August 2009**



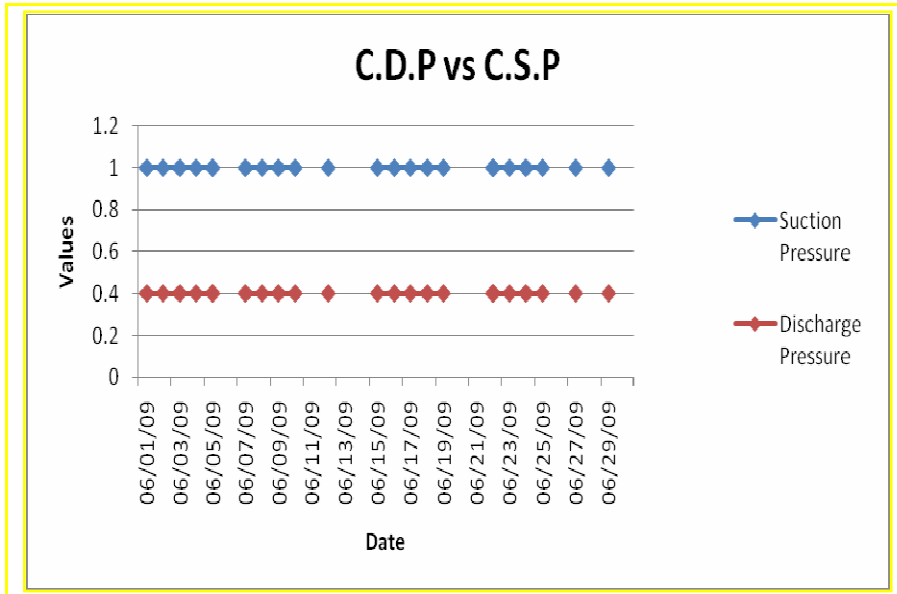
## HVAC Cooling Water System - Condenser Water Pressure Trends : Delta (P)

(i.e. Difference between condenser inlet pressure and condenser outlet pressure)

**BEFORE MERUS INSTALLATION**

**(Condenser Discharge Pressure – 0.4 kg/cm<sup>2</sup>,  
Suction Pressure is 1.0 kg/cm<sup>2</sup>)**

**June 2009**

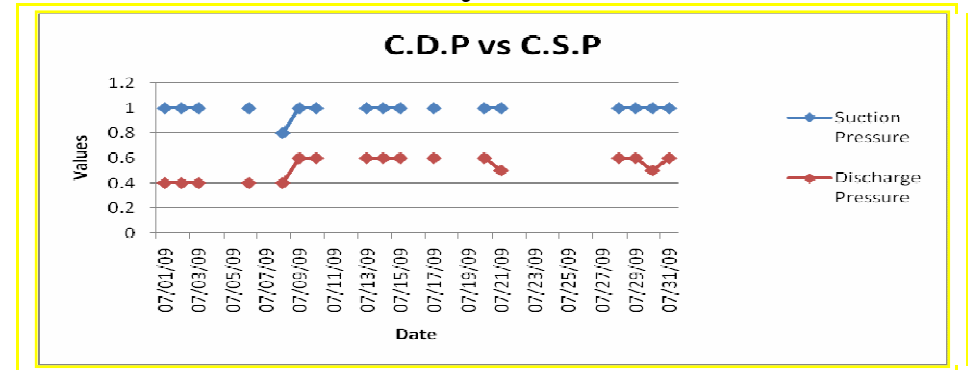


**Note : The above data reflects the observation before Merus i.e. CDP is 0.4 kg/cm<sup>2</sup>**

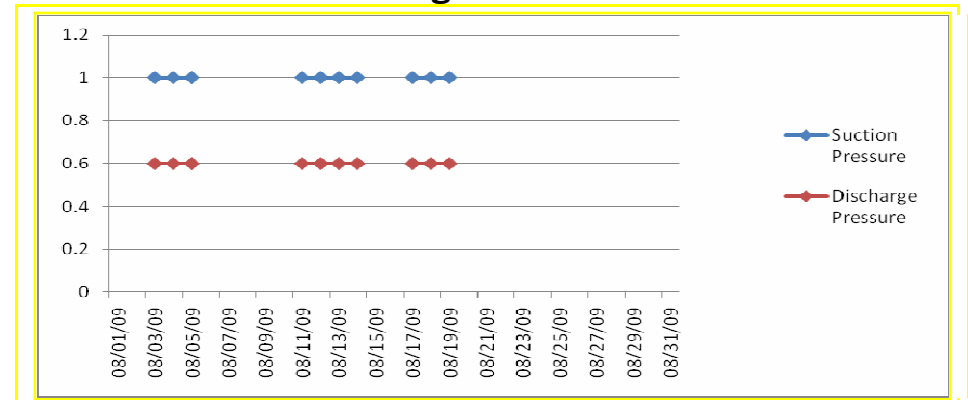
**AFTER MERUS INSTALLATION**

**Condenser Discharge Pressure increased  
from 0.4 kg/cm<sup>2</sup> to 0.6kg/cm<sup>2</sup>**

**July 2009**



**August 2009**



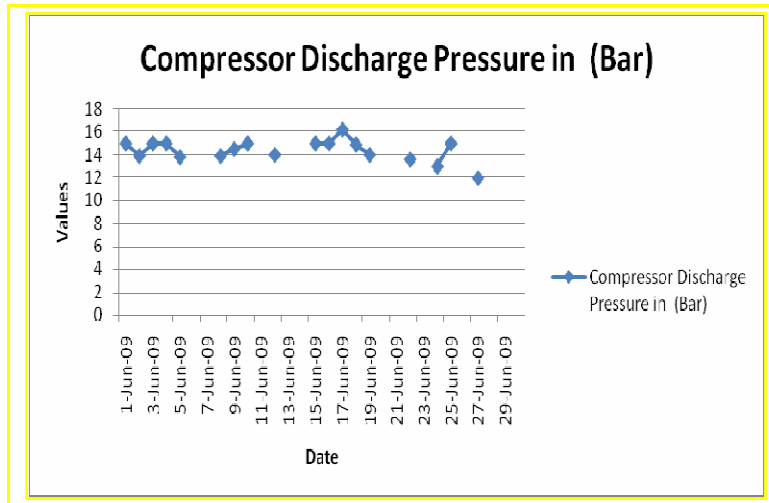
**Note : After Merus the CDP improved from 0.4 to 0.6 kg/cm<sup>2</sup>. This improvement is tangible and increase in efficiency**

## HVAC Cooling Water System - Compressor Discharge Pressure Trends

**BEFORE MERUS INSTALLATION**

**Compressor Discharge Pressure : 14 to 16 Bar**

**June 2009**

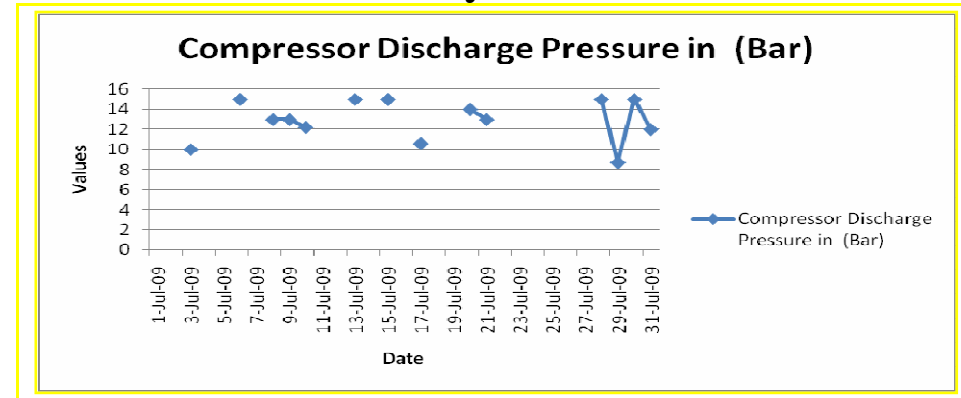


**Compressor Discharge Pressure is 14 to 16 Bar**

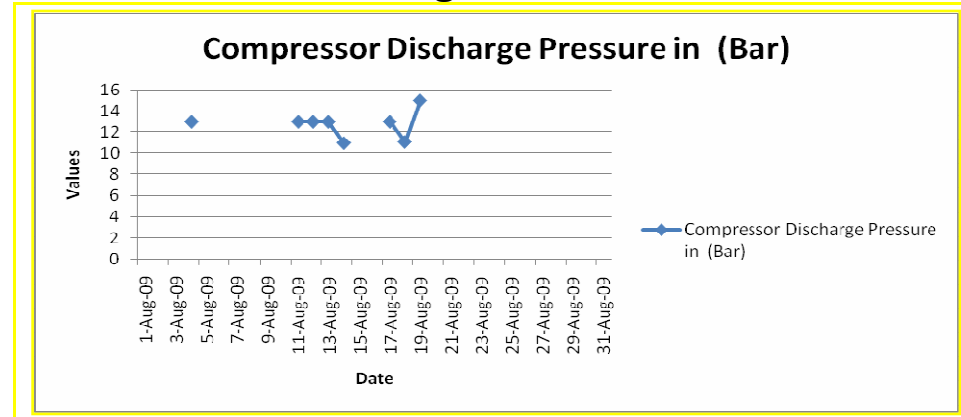
**AFTER MERUS INSTALLATION**

**Compressor Discharge Pressure Reduced to 13 Bar**

**July 2009**



**August 2009**



**As the scales are getting dislodged there is decrease with compressor discharge pressure to 13 bars**

## Direct Saving Details

**Motors specifications:**