



# 2 STAGE AIR COOLING SOLUTION TO AN AUDITORIUM

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## CASE STUDY 6

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2020



**Project Name: MCEMC  
Auditorium Air Washer unit replacement,  
Location: Lal Bazar, Hyderabad.**

## **OBJECTIVE**

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The existing Air Cooling Unit is not providing the desired set conditions. Hence, The management was in need to replace it with a more efficient Evaporative Cooling solution. Moreover, The Management wanted to further improve the cooling performance of the unit.

### **CONDITIONS WITH OLD AIR COOLING UNIT**

**WBT + 2 DEGREES CELCIUS**

### **CONDITIONS WITH OUR NEW 2 STAGE COOLING SOLUTION**

**WBT - 2 DEGREES CELCIUS**



## OUR SOLUTION

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To cater the needs of the client, We have proposed a Two Stage Air Cooling Unit solution of 40,000 CFM capacity cooling the whole Auditorium.

The solution was designed with 2 stage Air Washer unit containing one indirect stage and a direct stage. A physical survey inspection was done by our engineering team and existing Plant location was studied. Consequently, an engineering drawing was prepared encompassing all the essential design parameters with Inlet, Fan outlet and Discharge plenum with Secondary fan discharge location.

After the drawing approval, The Air Washer unit was manufactured as per the drawing and was shifted to the site in SKD condition and installation was done

## RESULT

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The 2 stage Air Washer is fully operating and has significantly improved cooling and flow without any turbulence or hot spots. Completed in Feb 2018.



# IMAGES



**MODEL NUMBER : SAACU-D-800-TB**

