



JAI MAHAL PALACE

Jai Mahal Palace Hotel, Jaipur, Rajasthan, India

INTRODUCTION



Jai Mahal Palace was originally a Moghul Palace, around 260 years old. It has now been converted into a Grand Heritage hotel, managed by the Taj group of Hotels. The Taj group own 100 hotels in 62 locations across India, and are expanding their presence to the wider world.

SEETECH Solutions was awarded a contract of 28 Months to save energy in this hotel, and turned their attention to their two condensers. Due to limescale fouling, the condenser approach had risen to around 7 Degree Celsius, meaning there was an opportunity for a significant saving in energy.

EXISTING TREATMENT

Previously, the hotel had been treating the condensers with chemical cleaning. This needed to be performed every 3 months, and required a complete system shutdown for an entire day. As well as the inconvenience of a shutdown, this also led to labour costs, the costs of the chemicals themselves and the potential for damaging the equipment.

A Hydroflow Custom P unit was installed on the cold feed to the condensers in July 2016. The condensers were not cleaned before installation, and chemical dosing was stopped.





RESULTS

After 6 months the system was inspected and the results analysed. The Hydroflow units had removed the limescale to the extent that the condenser approach had dropped to 4 degrees from 7 degrees, indicating a significant increase in efficiency.

The cost of chemical cleaning was 2.5 Lakh Rupees – 250,000 rupees or around \$4000 dollars per year, plus labour costs, the inconvenience of stopping production and the chance of damaging the equipment.

The ROI was approximately 2 years.

The Taj Group were pleased with the results and purchased further units for their boilers and steamers, which are also operating very efficiently, and went on to purchase units for their upscale Vivanta hotel, the Taj Chandigarh.

