

Green Solution at India's first ISO 50001 certified IT park

TRIL Info Park is a joint venture between TRIL (TATA Realty and Infrastructure Limited), Indian Hotels Company Limited (IHCL) and Tamil Nadu Industrial Development Corporation (TIDCO).

25.27 acres of space is split into 2 components. The workspace which comprises of 17 acres and is spread over 3.2 m sq.ft. 4 towers namely Neville tower, Carr tower, Hardy tower and Little wood tower constitute the "Workspace".

Non-work space comprising of luxury green apartments, retail mall, serviced apartment and an International Convention Centre constitutes the remaining 8 acres, which is yet to come up.

TRIL Info park is part of Ramanujam IT city which is a mixed use development consisting of above commercial and residential areas.

CUSTOMER REQUIREMENT:

Due to the mixed use requirement of the site, customer wanted to go for high delta T system which could serve both residential and commercial users.

Project development was planned in 2 phases, Carr and Hardy tower were developed in 1st phase and the rest in 2nd phase. Chilled water is distributed in a closed pipe net to energy transfer stations located in each of these individual towers.

GRUNDFOS SOLUTION:

AIR-CONDITIONING:

TOPIC:

Grundfos Green Solution at TRIL Info Park

LOCATION:

Chennai, Tamilnadu

COMPANY:

TRIL Info Park

Being a certified Green building customer required all pumps to have minimum efficiency of 80% or more. Grundfos offered LF,LFE range of end suction pumps for primary, condenser & tertiary pump duties and for secondary pumps of 4600 usgpm horizontal splitcase pumps of KP models were offered.

Control MPC EF version with Grundfos CUE drives of 110 kw were offered to control secondary chilled water distribution pumps.

Mixing loop controllers located at these energy transfer stations ensure that these towers are supplied with chilled water at right temperature for optimum cooling comfort. Tertiary pumping systems of Control MPC EF were offered with Grundfos CUE drives of 30 kW combined with mixing loop controller MLC 3000.

Data from secondary, tertiary and mixing loop control systems were hooked up to the building management system through Modbus protocols.

OUTCOME :

Now with all 4 towers commissioned, TRIL Info Park has become the first Indian commercial building to get ISO 50001 certification for energy management.