

## **REPORT ON SITE VISIT TO STUDY VARIOUS HVAC SYSTEMS INSTALLED IN ADMINISTRATIVE BLOCK (DOME BUILDING) MANIPAL UNIVERSITY JAIPUR**

On, 7<sup>th</sup> March 2019 third year students(6<sup>th</sup> semester), School of Architecture and Design were taken on a site visit to study the various HVAC systems installed at ADMINISTRATIVE BLOCK, Manipal University Jaipur, as part of their learning curriculum where detailed working of the following systems were explained to the students.

1. Chilled water type CSU(Ceiling suspended Units)
2. FAHU(Fresh Air Handling Units)
3. VRV
4. Split AC Systems

Mr. Pushpendra, Building Maintenance manager, Mr. Deepak, Deputy Facility manager, Mr. Arvind Sr.Engineer for MUJ campus were kind enough to accompany us and explain the detailed functioning of the above mentioned systems where students saw the working of the Plant room installed at the terrace top of the dome building comprising of compressor, air type condenser, evaporator ,the expansion valve the Balance tank along with the functioning of the CSUs at the room end. Further the working of FAHU responsible for supplying fresh air into the rooms was explained.

Also students could clearly differentiate between the VRV systems and the Split AC systems.

The site study proved beneficial as students could relate to the theoretical block diagrams already explained to them prior to the visit to the practical installations and working of the same.

Following are the pictures taken during the study



Figure 1 Explanation of the various components of VRV system



Figure 3,3 The Plant room



Figure 2 Visit to the Fresh Air Handling Unit Room