## Development Active Chilled Beam for Tropical Climates

NATIONAL Research Foundation

## I. Objectives

The main objective is to develop a systematic methodology for the design and operation of energy efficient HVAC systems for local climate with Active Chilled Beams (ACB) as terminal units. With the most latent cooling load treated by primary air supply system and the most sensible cooling load handled by higher temperature secondary cooling coils inside the ACBs, the energy consumption in HVAC system operation can be substantially reduced. The target of the system to be developed is to reduce the HVAC system running cost by $30 \%$ over the existing all-air VAV systems.
II. CFD of Lobed and Circular Nozzle

III. Side View of Experimental System and Results


