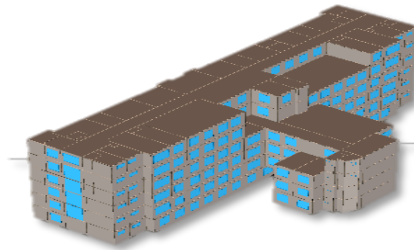


Building Type	: Business
Climate Zone	: Composite
Area	: 8980.2 m ²
WWR	: 27.9%
Conditioned Area	: 7000 m ²
Occupancy Type	: 8 hours
ECBC Compliance	: Whole building performance method - 2007
Baseline EPI	: 82.14 KWh/m ² /year
Proposed EPI	: 60.18 KWh/m ² /year
% Energy saving	: 26%
Payback period	: 1.59 years
HVAC Specifications	
	BEE 5 star rated split AC
Piping and ductwork	
	System Description: 20 mm thick Nitrile Rubber, R value of insulation: .35, Thickness of insulation 13 mm.
Air leakage	
	Air blower test will be adopted.
Envelope Sealing	
	Envelope is sealed, caulked, gasket or weather-stripped.

Office of the Excise and Taxation Department (Haryana)



PROJECT SUMMARY

Office of Excise and taxation department is six storied G+5 building located in Gurgaon. The longer axis of the building is towards north east to south west direction.

Building Envelope

Opaque wall : 12 mm Plaster + 115 mm Fly ash brick + 50 mm puff insulation + 230 mm Fly Ash + 12 mm Plasters

U-value, W/m²K: 0.39 W/m²K

Assembly thickness : 419 mm

Roof Assembly: 8mm tiles + 50 mm

Portland cement+70 mm XPS insulation + 150mm RCC + 12 mm Cement plaster

U-value: 0.4 W/m²K

Assembly thickness : 240 mm

Glazing type 1 :DGU(Double Glazed Unit)

U-value: 1.87 W/m²K, SHGC: 0.28, VLT: 23%

Glazing type : Single Glazed Unit

U-value: 5.4 W/m²K, SHGC: 0.53, VLT: 43%

Lighting Power Density

LPD of the proposed case is 5.5 W/m² as per Building Area method.

Fixtures :LED Bulbs

Occupancy Sensors :in corridors, toilets, offices and conference rooms

Exterior Lighting Details

LED Fixtures with minimum efficacy of 80 lumens/watt.