Building Type	: Group Housing
Climate Zone	: Composite
Built Up Area	: 7535 m <sup>2</sup>
Conditioned Area: 5000 m <sup>2</sup>	
WWR	:23.5%
Occupancy Type	: 24 hours
ECBC Compliance	: Prescriptive method

### Lighting Power Density Space Function Method

-		
Bedroom / Drawing Roor	m :9 W/ m²	
Lobby	:9 W/ m <sup>2</sup>	
Toilets	:7 W/ m <sup>2</sup>	
Kitchen	:10 W/ m <sup>2</sup>	
Common Areas	:4 W/ m <sup>2</sup>	
Fixtures	:LED Bulbs	
Occupancy Sensors -	corridors, toilets,	
Society offices, conference rooms		

#### **HVAC Specifications**

BEE 5 star rated split AC

### **Piping and ductwork**

System Description: 20 mm thick Nitrile Rubber

R value: 1.4, R value of insulation: 0.38,

Thickness of insulation 13 mm.

**Air leakage** Envelope is sealed, caulked, gasket or weather-stripped.

# Transit Flats, Assandh Karnal (Haryana)



## PROJECT SUMMARY

The transit flat building is five storied building which will serve as residential quarters. The longer axis of the building is in East-West direction.

**Building Envelope Suggestions Opague wall :** 12 mm Plaster + 115 mm AAC Blocks + 5mm Air Cavity + 230 mm AAC Blocks + 12 mm Plasters U-value: 0.4 W/  $m^2$ K Assembly thickness : 369 mm: Roof Assembly: 10mm tiles + 50 mm Portland Cement Concrete +85 mm PUFF insulation + 150mm RCC + 12 mm Cement Plaster U-value: 0.39 W/m<sup>2</sup>K Assembly thickness: 275 mm **Glazing Type 1:** DGU( Double Glazed Unit) U-value: 1.5 W/ m<sup>2</sup>K, SHGC: 0.28, VLT: 46% **Glazing Type 2**: DGU( Double Glazed Unit) U-value: 1.8 W/ m<sup>2</sup>K, SHGC: 0.31, VLT: 36% **Exterior Lighting Details** 

Fixtures with minimum efficacy of 80 lumens/watt.

**Sensor:** Astronomical time switch **ECBC** requirement of 20% of total hot water requirement through solar water heaters.