

Building Type : Educational
Climate Zone : Composite
Location : Nacholi, Faridabad
WWR : 15 %
Area : 8721.14m²
Conditioned Area: 5500 m²
Occupancy Type: Day time use
ECBC Compliance: Prescriptive method
(ECBC 2007)

Lighting Power Density

LPD :10 W/m² as per Building Area method

Fixtures - LED Bulbs

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

HVAC Specifications

BEE 5 star rated split AC

Piping and ductwork

System Description: 20 mm thick Nitrile Rubber pipe, R value of insulation: 0.38, Thickness of insulation 13 mm.

Air leakage

Envelope is sealed, caulked, gasket or weather-stripped.

Government Law College, Nacholi, Faridabad.



The project Standard Government Law College is an upcoming building designed with G+2. The building is East – West oriented.

Building Envelope

Opaque wall : 20 mm Plaster + 115 mm AAC blocks + 20 mm air cavity+ 230 mm AAC blocks + 20 mm Plasters

U-value: 0.425 W/m²K

Assembly thickness : 405 mm:

Roof Assembly: 10mm tiles + 20 mm cement screed+75 mm XPS insulation + 150mm RCC slab + 20 mm Cement screed

U-value: 0.33 W/m²K

Assembly thickness : 275 mm

Glazing type 1 DGU(Double Glazed Unit)

U-value: 1.87 W/m²K, SHGC: 0.27, VLT: 23%

Glazing type Single Glazed Unit

U-value: 5.4 W/m²K, SHGC: 0.48, VLT: 43%

Glazing type Single Glazed Unit)

U-value: 5.4 W/m²K, SHGC: 0.38, VLT: 23%

Exterior Lighting Details

LED Fixtures with minimum efficacy of 80 lumens/watt.