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[Climate Responsive Architecture Arvind Krishan.pdf](#)

## INSULATION

### INSIDE

THERMAL INNER SKIN INTERACTS WITH INTERNAL CONDITIONS

- AIR TEMP.
- HUMIDITY
- LIGHT

INTER-STITAL SPACE

- HEAT BARRIER THROUGH INSULATION / DEAD AIR CAVITY
- MOISTURE BARRIER
- T.A.P. (THE WICKSYPHON AIR PANEL)
- THROUGH SOLAR / MECHANICAL ACTIVATION

### WATERBODIES AND LIGHT VAULTS

#### Water Bodies

- ▶ The water bodies with waterfalls and fountains have been placed in the central atrium of the complex for cooling of whole the complex in the hot and dry period.

#### Light Vaults

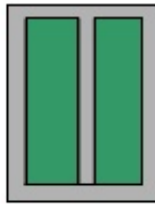
The vertical cut-outs in the floating slabs are integrated with light vaults and solar activated naturally ventilating, domical structures in the south

- ▶ to admit day light without glare and heat.

### INSULATION OF ROOF AND WALL

- ▶ All the roofs have been insulated with double insulation system to avoid penetration of heat from the roof.

- ▶ The complex is a single envelope made up of its outer walls as double skin walls having 2" cavity in between. The cavity walls facing south and west are filled with further insulation material for efficient thermal effect.



### OUTSIDE

STRUCTURAL OUTER SKIN INTERACTS WITH EXTERNAL CONDITIONS

- WEATHER
- RADIATION
- HUMIDITY
- AIR TEMP.
- U.V.

### WIND TOWER



BIPV ROOF



HYPERBOLIC PARABOLOID SHELL ROOF

## Landscape

The space around the building inside and outside of boundary wall and a big lawn in the south has been designed with trees, shrubs and grass.

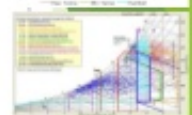
The big trees along the boundary wall acts as a curtain to

- Minimize air pollution
- Sound pollution
- Filter/catch the entry of air.

▶ Most Efficient Building in the country, it has 5 STAR RATING in 2010 BASED ON ACTUAL PERFORMANCE 54 kwh/sq.m/yr given by BUREAU OF ENERGY EFFICIENCY GOVT. OF INDIA

## SITE MICRO CLIMATIC ANALYSIS

- The climatic periods : two months of hot-dry, hot-humid (two months) and cold period (two months)
- Cooling remains as the predominant requirement since the total over-heated period extends from mid-April to mid-August.
- The comfort temperature varies during whole year, but the maximum comfort temperature in summer varies from 29 c to 31 c when external temperature varies from 40 c to 45 c.



## CONCLUSIONS

- Evaporative cooling towers work best with open floor plans that permit the air to circulate through out the building without any obstacles.
- Good thermal mass of the building helps the building to perform in extreme conditions. Appropriate building design and orientation having properly placed building elements reduced or minimize the solar gain in summer.
- Elements like light Vault, Solar chimney, Hyperbolic paraboloid atrium roof help to minimize the solar gain.
- From the TAS result it can be concluded that the atrium space is working properly with application of PDEC system, by getting 10-12° C lower than ambient temperature, which also helps to cool the neighboring south office space to maintain a comfortable space to work.
- From all evidences, Punjab Energy Development Agency (PEDA) office building can be called as a passive solar complex. Overall the building performs well whole of the year. Evaporative cooling is required in May & June



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