



## Attractive Infosys Architecture, Unique Shape of Infosys Building Spaceship & Dome Shaped

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### ABSTRACT

Indian Global Information Technology Infosys Limited Company is the country's second largest IT Company. N.R. Narayan Murthy launched Infosys in Pune, Maharashtra, India, on July 2, 1981. The company was innovated in 1983 under the name "Infosys Private Limited." and is grounded in Bangalore, Karnataka, India. Pune, Mysore, Hyderabad, Mangalore, Chennai, Jaipur, Bhubaneswar, Chandigarh, Trivandrum, and Gurgaon are among the places where it has branches. The futuristic and stunning armatures of the Infosys premises in India are also a big draw. The premises' armature is ultramodern, sustainable, and incorporates smart technologies to produce a one-of-a-kind structure. Infosys Premises in India is also major magnet for its futuristic and spectacular structure. The Architecture of its premises is ultramodern, sustainable, and also smart technologies used to produce a one-of-a-kind structure. Infosys has set a precedent with the design of its premises. Geometric structures similar as circles, spheres, and triangular places distinguish most lot structure shapes. The bone in Pune has become a popular sightseer destination because to its spaceship-suchlike structure. At the Mysore lot, there's a Dome- Shaped multiplex theatre with a seating capacity of roughly people.

**Keywords:** IT Company, Infosys, Architecture, Mysore, Pune, Spaceship, Multiplex

### INFOSYS MYSORE CAMPUS

The Infosys Mysore campus has 337 acres in size and total buildup area of 1.44 million sq. ft. The training complex can accommodate 14,000 trainees. There are 147 training rooms, 485 faculty rooms, 42 conference rooms, 5 assessment halls, an induction hall, an internet café, and other amenities and two state-of-the-art libraries with a combined capacity of 140,000 books in the facility, seven food courts that are serve to approx. 10,871 people at a time.



Fig. 1 – Infosys Mysore Ssd Block Architecture

The jagged façade and lopsided fragments style of the Infosys campus in Mysore are well-known. The craggy character of the topography inspired the building's architecture, which Ar. Hafeez Contractor decided would match the curved site. The Origami concept worked well with the building's length, and he then opted to apply the technique of folding paper, which is certain to "represent the site's spirit" see in fig. 1.



Fig. 2 – The Structure Reflects The Site's Rugged Contours.

The building's jagged shape mimics the site's harsh characteristics. Glass is a contemporary building material that is used for its aesthetic value. Glass is the substance of the future. The frit pattern on the glass play the role of shading device without creates any disturbance of the interior view of the building.

Originally, the structures was rectilinear with some jagged edges in the vertical plane, but as time went on, it evolved into its current form, which has distorted contours in all three dimensions, see in fig. 2. The deformed form is created by the facade moving in and out at various angles and inclines see in fig. 3.



Fig. 3– The Facade Show The Distorted Form

## **DOME SHAPED STRUCTURE**

A dome-shaped multiplex and auditorium building is a centerpiece of the Mysore campus see in fig. 4. The building is gray black dome with pyramidal structure in all direction. The multiplex enhance the view from inside also. There are 1,056 seats in the main auditorium and 145 seats in each of the three multiplex cinemas in this complex. The auditorium is equipped with the most up-to-date digital projection and audio technologies, as well as the best acoustic arrangements.

Infosys places a strong emphasis on overall development, and the campus offers exercise and recreation facilities to its employees. The trainees on campus have a luxurious lifestyle. The trainees are assigned single and double rooms with basic modern conveniences.

A gym, a badminton courts, a bowling alley, squash courts, table tennis, pool and snooker tables, an aerobics center, a Jacuzzi, a rock climbing wall, a meditation hall, a racing track and a big swimming pool with fountains, are available for the trainees at the campus to relax the mind after the hectic schedules are finish.

The campus also has a cricket ground, a football ground with an eight-lane athletic track, two basketball courts, one volley ball court and eight tennis courts with synthetic surface



Fig. 4– The Dome Shaped Multiplex & Auditorium

Also a Laundromat with industrial type washing machines, a company store room and a medical center and bank facilities are provided.

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## MYSORE INFOSYS BUILDING AWARDED HIGHEST LEED RATING

For its software development Block 5 (SDB 5) in Mysore, India, the Indian Green Building Council (IGBC) has awarded Infosys Limited the Leadership in Energy and Environmental Design India Platinum designation.

The LEED India Green Building Rating System is a widely accepted national and international standard for high-performance green building design, implementation, and administration.

SDB 5 was designed with a long-term commitment to environmental stewardship in mind. Sustainable site development, water management, energy efficiency, material selection, and interior environmental quality are the five key aspects.

### **Key features of this Platinum rated building include:-**

- **Water Efficiency:** Overall water consumption in building reduction is 58%, through the use of efficient plumbing fixtures and only recycled water is used for irrigation.
- **Energy Efficiency:** Energy Efficiency The structure is 40 more effective than the encyclopedically accepted ASHRAE standard and has the implicit to save about kgs of carbon emigrations. This has been achieved through an effective structure envelope, which includes insulated walls and roof, along with spectrally picky double glazed windows which are meetly shadowed. Adding to that's the robotization leading to a 40% reduction in energy costs. Use of effective outfit and smart.
- **Lighting:** During the day, these office area crops 90 of natural light, dwindling the need for artificial lighting. The design includes light shelves along all windows to insure that the natural light peregrination as deep into the structure as possible. The lighting design is 35 more effective than ASHRAE norms. The differing brilliance within the structure has also been reduced by using light color shells and ceilings, therefore reducing the strain on peoples and as a result, workers are less tired.
- **Green Power:** This building's total energy usage is satisfied entirely by renewable energy.
- **Efficient Material Selection and Management:** Infosys has diverted construction waste from tips. 10% of the total construction material used was reclaimed material including aluminum, glass and sword. 41% of the total design material by cost was manufactured regionally, thereby reducing pollution due to transportation.

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## INFOSYS PUNE CAMPUS

Infosys Pune is regarded not only for being one of the top software businesses in the country, but also for its incredible infrastructure. We all must have seen the spectacular spaceship like building in Hinjewadi see in fig. 5. The building structure is definitely an example of architectural excellence. The structures that have been built are really lovely and well worth seeing.



Fig. 5 – The Spaceship Shaped Sdb

The entire campus is themed around the seasee in fig. 6. The first two structures are shaped like ships, the food court is shaped like a dolphin, and SDB3 is shaped like an oyster. Infosys Pune Phase 2 is a 120-acre campus in Hinjewadi that opened in 2004 and can seat 34,000 employees. It includes office buildings, residential training facilities, food courts, health and exercise facilities, and more.



Fig. 6 – Software Development Block

The structure has become a symbol, and everyone involved in its construction is proud of it. On five storeys, the building has a usable space of 150000 square meters. The clear glass doorway is visible from the offices on the first and second floors. The building's last three levels take on the shape of the building, getting smaller and smaller as you go closer to the top. Glass elevators enhance the experience of translucent atriums that allow wide views of the outdoors in the double-height main lobby.

The structure is made up of a one-of-a-kind steel skeleton with glass and aluminium coating. The circular interior building structure is a traditional reinforced concrete and masonry structure. The encircling shell of steel, glass, and aluminium cladding gives the design its distinctiveness. A separate structural system is used on the outside frame. One end of the building looks to be buried in the earth, while the other appears to be lifted, due to the building's slope. The building's primary entrance is located beneath the raised area. A glass wall with a conical, curved, and sloped surface greets visitors at the main entrance. To improve the visibility of the inner floors to the outside, the cladding incorporates big elliptical cutouts with high-performance double glass. Solar passivation and energy conservation are enhanced by the glass with aluminium coating. The advanced materials and technology that were employed to construct the entire structure.

Although the design of the building has been called "strange" by many, it has definitely attracted a lot of attention with its unique shape and stunning glass facade. The building, designed by Hafeez Contractor, is an illustration of contemporary architecture that is also sustainable and eco - friendly.



Fig. 7 – The Spaceship Shaped Sdb3 & Sdb5

Infosys pune building is designed by Hafeez Contractor and its architecture is futuristic and also environmentally friendly and sustainable. Despite the fact that the building's design has been dubbed "weird" by some, its distinctive shape and magnificent glass front have received a lot of attention.

The Progeon buildings are the BPO buildings across from the food court, as well as SDB 3 and 5 see in fig. 6. Unlike the SDB structures, the outlines of the buildings have precise rectilinear lines. The simple geometric orientated is an exceptionally striking manifestation of technologically superior facility from the outside.

The ECC (Employee Care Centre) building is the last but not least and one of the tallest in the area. The rectilinear mass stands out with circular bands provided at intervals to break up the monotony of the structure, which was provided with a tiny area of ground.

Training, Recreation, and Lodging were the three main keeping in mind while creating this structure. The structure has a glass canopy in the center of a double-height entrance lobby.

The entrance lobby divides the floor, with a swimming pool, gym, indoor badminton court, and squash court on one side and the office area, training hall and lecture hall, auditorium, conference room, and foyer - which serves as a breakout area between the conference room and lecture hall - on the other.

Within the building, a little supermarket and a bank were created with the tenants' general and daily needs in mind.

Finally, the upper level of the structure has been developed with single and double occupancy rooms for women and gents, regarding the lodging amenities, as well as suites for special visitors and families. There are a total of 1000 rooms. The lodging facilities have been built on the upper levels to give the residents a relaxing view of the surrounding surroundings and to allow them to enjoy the good environment of the area.

The food court is located between the two elliptical SDBs. This food court has a capacity of 1500 persons. As a result, the architecture of each of the four major building types differs significantly, and each conveys its function through its own aesthetics.

Libraries, cafes, supermarkets, ATMs, swimming pools, food courts, and other amenities are available on the Infosys Pune campus. Infosys has similar leisure amenities for its employees in all of its phases.

### ***PUNE INFOSYS BUILDING AWARDED HIGHEST LEED RATING***

The United States Green Building Council (USGBC) awarded Infosys Pune's entire Infosys Pune Phase-2 campus the LEED Existing Building Operation and Maintenance (EBOM) Platinum certification in 2009.

The highest level of green building certification is LEED Platinum, and the Infosys Pune campus is now the world's largest to obtain this distinction.

Energy efficiency was optimized with HVAC system, LED lighting and a 1.3MW roof top solar display, 49% of reduction in energy use, 70% energy use is green, 21% lower retrofit cost. Design optimization reduced water use 45% saving in office building, 43% saving in food courts, 33% saving in guest houses and more than 90% waste diverted from the landfill & re-used in a responsible way.

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## **CONCLUSION**

Infosys places a strong emphasis on overall development, and the campus offers exercise and recreation facilities to its employees. Mysore Infosys campus is the training center for the Infosys employees. In this campus all facilities are provided. The dome shape structure of multiplex auditorium building is the major attraction of the Mysore campus. Also spaceship like iconic structure that is Software Development Block 3 and 5 (SDB3 and SDB5) in Infosys Pune is masterpiece of the campus. Both the Pune and Mysore campus of Infosys awarded highest LEED rating for its sustainable development and environment friendly architectural design.

## **Referances**

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