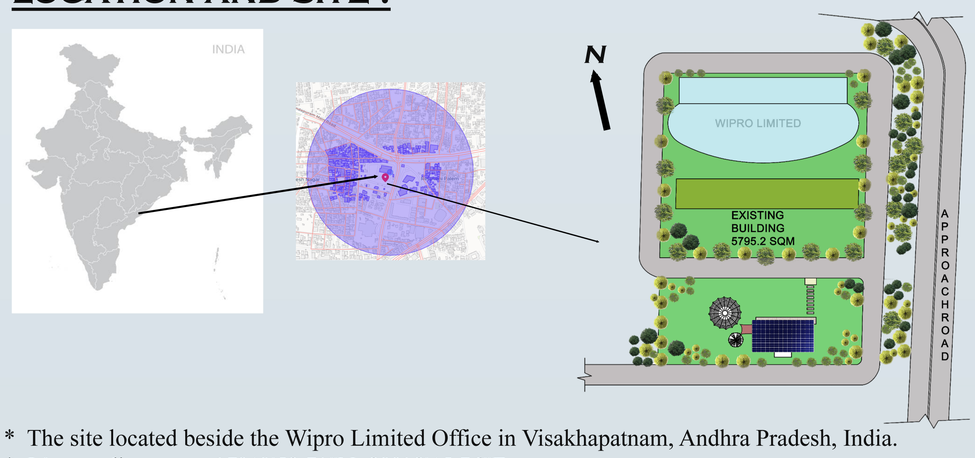
FLEXIWORK - A CO WORKING SPACE



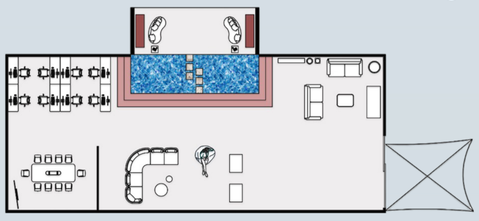
LOCATION AND SITE :



* The site located beside the Wipro Limited Office in Visakhapatnam, Andhra Pradesh, India.
* It's coordinates are 17°43'59.71"N, 83°18'45.76"E.
* The approach to the site is from the main road of the Satyam junction having a 12 metre green belt from the road to the site and having a clear road to the site.
* The proposed site is of 2720 sqm which have an ample space to design a co working space with an outdoor space.

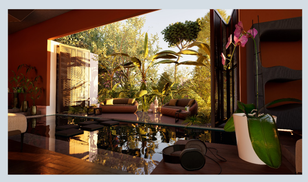
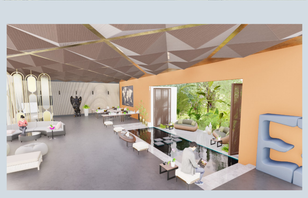
DESIGN FEATURES :

* A temporary co-working space accommodating approximately 10 workers with a small outdoor workspace in which a flexible and lightweight photovoltaic film is integrated into some technological systems such as shading systems and roof.
* Seating area in the outdoor space with a tensile structure giving shade for the people , where the structure is integrated with photovoltaic film panels and the building of the co working space have solar panels on the roof.
* It's a free flowing working space having a water body resembles tranquility and provides a peaceful environment.
* This design mainly focused on natural ventilation and creating a work space with greenery which purify air and boost well-being with technological systems.
* Solar panels are integrated with the building roof and photovoltaic film panels are integrated with the tensile structure which makes the design energy efficient.

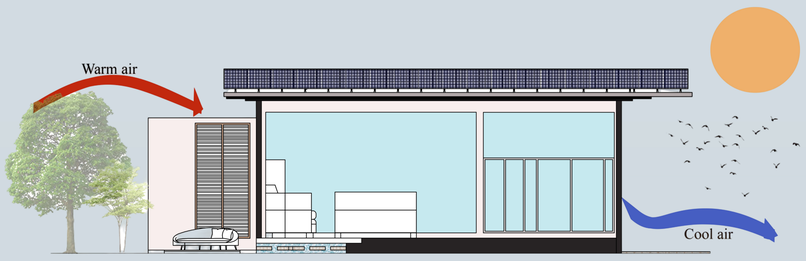


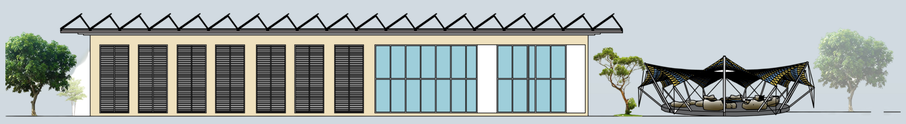
A free folwing co working space with work stations and conference room embodied with awater feature and open space.





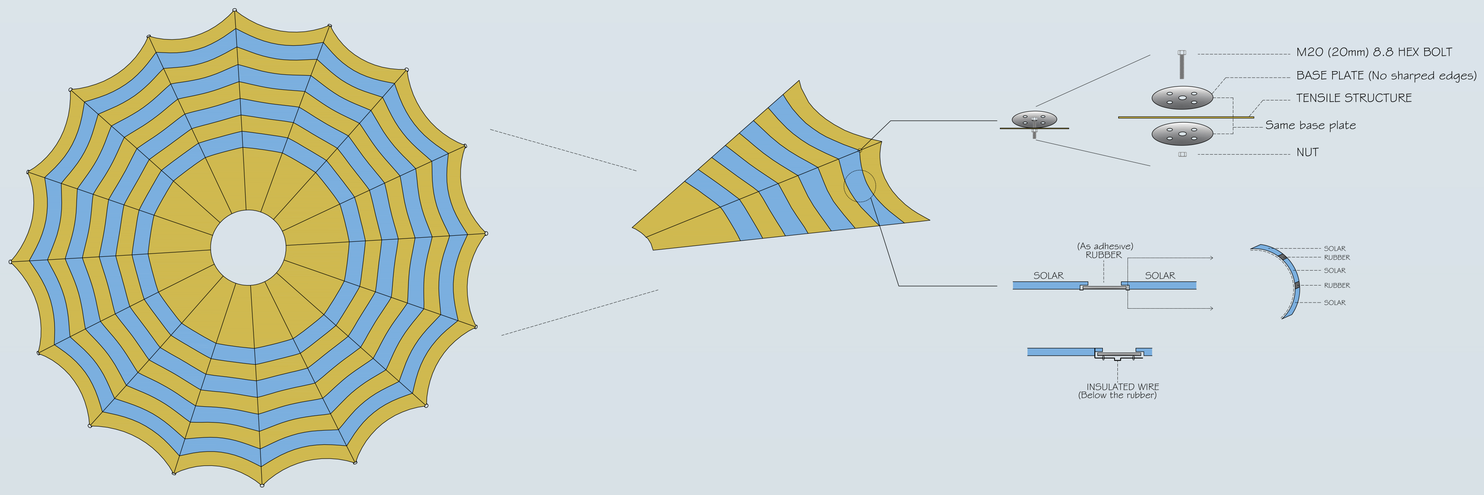




This building is designed where the cross ventilation will be happening and uses natural light in the daytime and uses solar power after the dawn.

TECHNICAL DETAILS :

* The tensile structure is integrated with the photvoltaic film panels with the M20 8.8 Hex Bolt fixtures and rubber acting as adhesive.
* This rubber adhesive is durable and can withstand the bending moment of the tensile structure so that the structure sustains.
* People could make use of this space for work and gathering space.

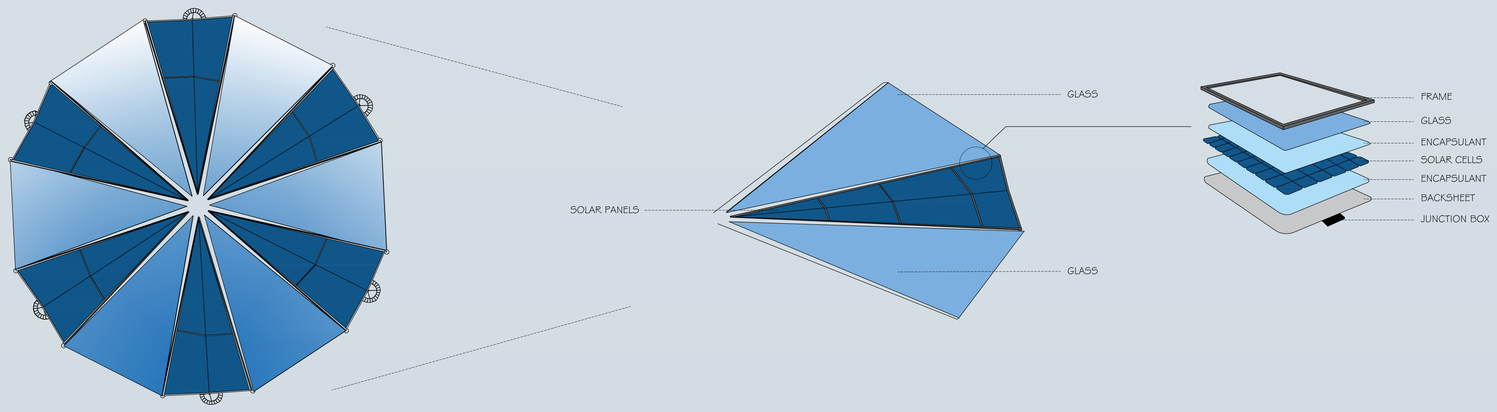


Energy generation through the tensile structure :
Installed capacity estimate
≈ 13 kWp
Output North estimate
≈ 4,600 kWh
Output South estimate
≈ 8,900 kWh

Energy generation through the hexagonal structure :
Installed capacity estimate
≈ 3 kWp
Output North estimate
≈ 1,100 kWh
Output South estimate
≈ 2,100 kWh

Energy generation through solar panels on the roof of the building :
Installed capacity estimate
≈ 490 kWp
Output North estimate
≈ 168,900 kWh
Output South estimate
≈ 329,000 kWh

* The hexagonal structure's roof is intergrated with glass and solar panels.
* People could make use of this space for work and gathering space.





* The energy generated by the solar panels and photovoltaic film panels will be used sufficiently for the building.
* If the production of the energy is more than the consumption then it is transmitted to the Wipro Limited Office building.
* So no energy is wasted which is sustainable to the environment.



Using natural lighting, natural ventilation, high technology integration, modular furniture, greenery in the working space makes it more efficient, sustainable and flexible making it ***FLEXIWORK !!***