

## 1. Introduction / Background

Across the globe, the areas valued highest for Real Estate sale or purchase, are the greenest parts of a city. These offer the best quality of life in terms of clean air, cooler climates, ample ground water, rich flora and fauna, natural lighting, ample wind-flow, recreation areas for children and adults, etc.

With unrestricted glass facades and extensive air-conditioned spaces, today we design buildings that work towards isolating the internal from the external environment, thereby resulting in very high energy consumption.

It is imperative we alter that trend to minimize the detrimental impact on the environment and to create a new future for our children, our towns, cities and our country.

The sunlight in our country is very harsh and brings with it heat and glare, which people try to battle by rolling the blinds down and using lots of air-conditioning respectively.

Lack of appropriate information and tendencies to follow fashionable trends that are short-lived often lead us to provide 'international' comfort conditions in our buildings, at the cost of very high energy consumption.

It should be our endeavour to help secure the energy and resource future of our country through green buildings and habitats suitable to our country and people.

## 2. GRIHA – Green Rating for Integrated Habitat Assessment

GRIHA is India's National Rating System for Green buildings. It has been developed by TERI (The Energy and Resources Institute) and is endorsed by the MNRE (Ministry of New and Renewable Energy).

It is based on nationally accepted energy and environmental principles, and seeks to strike a balance between established practices and emerging concepts, both national and international.

GRIHA attempts to minimize a building's resource consumption, waste generation, and overall ecological/environmental impact by comparing them to certain nationally acceptable limits / benchmarks.

GRIHA is a point based rating system that consists of 34 criteria categorized under various sections such as Site Selection and Site Planning, Conservation and Efficient Utilization of Resources, Building Operation and Maintenance, and Innovation points.

Eight of these 34 criteria are mandatory, four are partly mandatory, while the rest are optional. Each criterion has a number of points assigned to it. It means that a project intending to meet the criterion would qualify for the points. Different levels of certification (one star to five stars) are awarded based on the number of points earned. The minimum points required for certification is 50.

### 3. Design Brief

Design an Office complex for **Experion Developers**. **Experion Developers** is a reputed developer committed to sustainable development.

## MILESTONE EXPERION CENTRE

Experion Developers vision

- To deliver positive, engaging and memorable experiences to our patrons and partners and continuously strive for innovation in product design and processes with integrity and transparency.

Experion Developers values

- **SEE TRANSPARENCY IN A NEW LIGHT**  
We give an open book access to our clients through our dedicated Customer Portal. Through our ERP system we ensure systematic filing of records to make sure everything is transparent and in plain sight in real-time.
- **BUILT THROUGH INTEGRITY**  
Integrity. A tenet that allows us to create inseparable bonds with you, our partners in positive living. Guided by our comprehensive Standard Operating Procedures, we are able to lay down a foundation on which to build healthy relationships.
- **WELCOME TO A WORLD OF INNOVATION**  
Here, the keen minds of structural engineers and visionary architects come together to create an environment crafted to your needs. Be it themed gardens of exotic foliage or an ingenious sky-walk towering at the seventh level, every space has been thought-out and then thought through.
- **INVOLVEMENT THROUGH HANDS-ON APPROACH**  
We approach each of our business deals with one single outlook; to be approachable. No matter what the business transaction, our involvement is always a hundred per cent. Our robust team of Customer Relationship Managers is ever eager to interact with you.

---

|                                |   |
|--------------------------------|---|
| <b>Location</b>                | : 32 <sup>nd</sup> Milestone, NH8, Gurgaon. |
| <b>Site Area</b>               | : 3.95 Acres.                               |
| <b>FAR</b>                     | : 1.75                                      |
| <b>Maximum ground coverage</b> | : 37.71%                                    |
| <b>Building Occupancy</b>      | : 2557 persons                              |
| <b>Height</b>                  | : 108.77 m                                  |

## Other Details

- Buildings to be designed as per Haryana Bye laws. (Bye laws can be accessed from [http://tcpharyana.gov.in/Policy/OfficeOrder/The\\_Haryana\\_Building\\_Code\\_2016.pdf](http://tcpharyana.gov.in/Policy/OfficeOrder/The_Haryana_Building_Code_2016.pdf) )
- The project should also include a banquet hall building.

## Expectations

The design should make the best use of the site to improve the thermal performance in the climatic conditions of Gurgaon. The design should give special attention to massing, solar orientation, wind movement and passive cooling systems.

Architects play a very important role in influencing human behaviour through spatial experience. With time it has been realized that user behaviour is a key determining factor of environmentally sustainable practices. The proposed design scheme is not only required to be designed with the least environmental footprint, but also to create spaces that inspire and inculcate environmentally responsible attitude in all the occupants and visitors.

## Deliverables

Deliverables should include

- Design concept highlighting the climate responsive and passive features of the proposal.
- Demonstration of architectural strategies to inculcate sustainable behaviour in the users.
- Site layout plan and building layout plans.

## Parameters of Evaluation

- **Innovation in architectural design** **70%**
  - Effectiveness of the design in influencing user behaviour to be more sustainable through spatial experience.
  - Design response to the site and spatial functionality of the scheme
  - Passive design methods and design response to climatic conditions
  - Use of local, innovative and sustainable building materials
- **Presentation of the scheme** **30%**
  - Design representation through drawings
  - AV presentation

## 4. Submission Details

### Panel

One 8' X 4' panel will be provided.

### Print Presentation

Maximum number of sheets not be exceed **SIX A1** (594 X 420 mm) sheets.

### Documents required

- Site plan and layout plan
- Concept plan, Plans, Elevations and Sections
- Views, perspective and any other means may be used to explain the design proposal.
- AV Presentation

### Scale

Scale of the drawings is at the discretion of the participating colleges. All entries must be prepared using metric units of measurement.

### AV Presentation

Jury members shall shortlist the colleges for AV presentation. Only two students from one college will be allowed to give the AV presentation. Time given for the short listed entries shall not exceed 15 minutes. No college shall reveal its identity during the presentation.

### Other Submission Guidelines

- Sheet size should not exceed A1 size.
- No part of the presentation shall spill out of the 8'x4' panel.
- All individual sheets and panels shall have the NASA logo as per NASA logo guidelines.
- Two copies of the CD containing the soft copy of the entire sheets and the report along with the AV. Presentation must be submitted. The 2nd CD will be returned to the respective college after the presentation.
- In AV Presentation, NASA logo as per NASA logo guidelines is mandatory.

**Note:** The identity/name of the participating college should NOT feature in any way on any of the Report, Presentation sheets/AV presentation. All colleges are requested to adhere to the mentioned specifications, failing which the entry will be disqualified.