

THE URBAN HUB: Where the Mass Starts Imploding

DISSERTATION PROPOSED BY:
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DISSERTATION GUIDE:
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1. Introduction

Exciting things happen when a variety of overlapping activities designed for all people—the old and the young, the blue and white collar, the local inhabitant and the visitor, different activities for different occasions—meet in a flexible environment, opening up the possibility of interaction outside the confines of institutional limits. When this takes place, deprived areas welcome dynamic places for those who live, work and visits; places where all can participate.

The present day crisis of the breaking up of the society, culture and the basic communication between the people has passed an alarming situation. As it is on the verge of decay, so need for the protection will help come out of the crisis. A break in the society boosts the break up of the entire set up of the public scenario which includes all the facilities for the people like hospital, schools etc.

The phenomenon is clear. The cause of everything is the restless life where people are starving for a leisure time. Starvation is killing them day by day and they want peace of mind. A place where they can make use of the space for mental peace out of their daily schedule. And this is the present demand of any city dweller.

Thus a magnetic space is required which can draw people towards it. Like an implosion of mass towards the space, a plaza, an urban hub to give absolute socialization, relaxation and entertainment.

THE URBAN HUB:

It is a place for the people where technology will be used for the common man. As mentioned in the introduction-people from all areas of life will come to this centre to enjoy and have fun along with fulfilling their daily requirements.

It will represent the culture of the Indian society where one can see the transformation from the pure Indian culture to the western version of it. The spaces that have been provided will take the visitor to the dreamland which he would never have thought to be possible in India. The structural systems and the scale of each block will be monumental. The hub will consist of an amphitheatre multiplex, a shopping mall with four anchor stores, an art gallery, a food court, a huge kid's play zone and lots of areas for exciting entertainment.

All these spaces will be inter-connected through a plaza or piazza which will enable the visitors to move around the hub on carefully landscaped paths. The hub being fully commercial, will offer the tenants with great opportunity for business bringing world class brands to a common platform.

This will make the place flooded with people who will get the opportunity for buying things of all possible ranges, style and design and need.

Any commercial place will have parking units coming. But the urban hub provides the visitors with satisfaction of ample parking lots for all type of vehicles, which includes visitor, services and other vehicles of specific usage.

Coming to the entertainment areas- which include the heliport, the sky bus services and interior spaces equipped with bowling alley, snooker/pool games, video arcade and lots of other things.

PLAZA: Mercantile establishment consisting of a carefully landscaped complex of shops and other cultural and entertainment areas representing leading merchandisers.

2. Objectives: The project is to be designed with a specific objective:

Design objective:

- There is a growing demand of the people of GURGAON to create an environment where people can spend their leisure hour.
- To design a space that will tempt people to come from all the strata of society.
- To make available each and everything needed by the people at one place. This will include all products along with the variety of entertainment hubs for the people of all the ages.

Dissertation objective:

- To explore the field of hi-tech modern architecture (also called structural expressionism.)
- To explore the relationship of social and cultural surrounding with the contemporary thought.
- To study the traffic pattern.
- To aim at solving long term social and ecological problems through technology rather than an end in itself.

3. Scope Of Work

- | | | |
|-------------------|-------------------------------------|----------------|
| 1. plaza | 7. amphitheatre | 13. snooker |
| 2. Shopping mall. | 8. art gallery cum exhibition space | 14. Joy rides. |
| 3. anchor store | 9. entertainment | 15. heliport |
| 4. multiplex | 10. kid's play zone | 16. the crèche |
| 5. food court | 11. video arcade | 17. bar |
| 6. restaurant | 12. bowling alley | 18. pub |

4. Limitation:

The limitation of the dissertation is given as follows:

The design will be executed for the all the spaces except for the helipad, joy rides and the entertainment block. These spaces will be only shown in the site location.

The designed blocks will include structural detailing, basic furniture layout and service zones. Regarding the services, only the overall spaces will be shown.

No detailing in this aspect will be done. Foundation design will not be covered under the Scope.

The special studies will cover the guidelines of the structural expressionism, the principles of the steel structures and basic detailing. Structural design will be given that will involve detailing.

Plaza layout will be shown in the site plan with adequate site level detailing.

5. Method of study

1) Literature survey:

- Study of various plazas and study of commercial complexes.
- Study of hi-tech modern architecture as the special study.
- Study of works of Sir Richard Rogers, Sir Norman Foster and Santiago Calatrava.

2) Case study:

Study of various plazas and commercial complexes
Study of hi-tech modern architecture as the special study
Acquire data from the site of case study for the scope.



Nehru place, New Delhi



Ansal Plaza, New Delhi

The following case studies were done:

- *Ansal Plaza, New Delhi*
- *Nehru place, New Delhi*
- *Forum Mart, Bhubaneswar*
- *National Gallery of Modern Arts(NGMA), New Delhi*
- *The Lemon Grass, Mayfair Lagoon, Bhubaneswar*
- *The Baron and the Baroness, Mayfair Lagoon, Bhubaneswar*
- *Nakli Dhaba, Mayfair Lagoon, Bhubaneswar*



NGMA, New Delhi



The Lemon Grass

3) Data collection:

The following data are to be collected during this stage:

- All the information regarding the spaces according to the scope.
- To explore the various options of flowing spaces.
- To collect various data regarding the concept of hi-tech modern architecture.
- Traffic patterns generated in public spaces.

The following literature studies were made:

- *The mall of America, Bloomington, Minnesota, USA*
- *The Mississauga city hall, Mississauga, Canada*



Forum Mart, Bhubaneswar



The Baron and the Baroness

6. Analytical techniques intended to be applied.

- To study the psychology of the entire user group that is expected at the site.
- To explore the various concepts to achieve the objective for the plaza with aim given.
- To achieve the various concept of using different free flowing spaces.
- To integrate the surrounding land-use into the scope of design.
- To analyze the foot falls.
- Analysis of traffic pattern generated at site.



The Final Site, GURGAON

7. Site:

GURGAON:

The chosen site is located in the zone where new IT-industries are coming up with a total area of 167388.17 sq.m. This particular site is located in the heart of the city of Gurgaon, 25 km away from the New Delhi

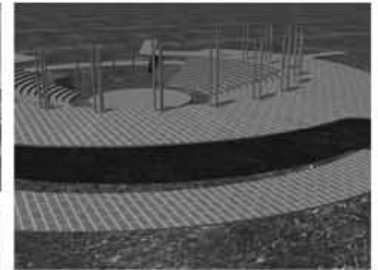
This site has very good potential for the development. And must be taken as it will be a hub for all the major activities.

8. area requirements:

1. plaza-----	13577 sq.m
2. Shopping mall-----	20000 sq.m
3. anchor store-----	24000 sq.m
4. multiplex-----	2000 sq.m
5. food court-----	4000 sq.m
6. restaurant-----	2800 sq.m
7. amphitheatre-----	4700 sq.m
8. art gallery cum exhibition space-----	4000 sq.m
9. entertainment-----	1500 sq.m
10. kid's play zone-----	1000 sq.m
11. video arcade-----	35 sq.m
12. bowling alley-----	520 sq.m
13. snooker-----	130 sq.m
14. Joy rides-----	600 sq.m
15. heliport-----	1250 sq.m
16. the crèche-----	400 sq.m
17. bar-----	250 sq.m
18. pub-----	550 sq.m



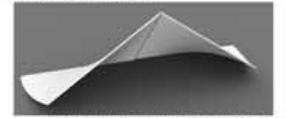
AMPHITHEATRE FROM THE NORTH SIDE



REAR SIDE OF THE AMPHITHEATRE



AMPHITHEATRE SEEN FROM HUMAN EYE LEVEL
3D VIEWS OF AMPHITHEATRE



ROOF OF AUDITORIUM IN ART GALLERY

9. Area Of Special Study

- HI-TECH MODERN ARCHITECTURE.
- Style Definition also called "high-tech modernism", Structural Expressionism is a specific branch of advanced modernism in which buildings display their structural elements visibly inside and out.
- Characters
- The larger design features are liberated by the possibilities of engineering.
- Detailing is generally faithful to the principles of the International Style.

Common features include

- detached frames,
- exposed truss work,
- Highly complex shapes requiring unusual engineering.
- Structures in this style tend to be metallic, in contrast to the older brutalist style which usually employs concrete.
- Precedents of Structural Expressionism include modern buildings like the John Hancock Center and U.S. Steel Tower.
- Structural Expressionism was born as a distinct style with some of the early work of the Richard Rogers Partnership, including the Centre Pompidou in Paris. The style's leading practitioner is the firm Foster and Partners, led by Norman Foster. The architect Santiago Calatrava is another major figure, with a more naturalistic form of this style.



STANSTED AIRPORT, LONDON



1.3 Pavilion at the Millennium Dome, Greenwich, UK (architect: Richard Rogers Partnership)



2.12 Financial Times building, London (architect: Nicholas Grimshaw & Partners)

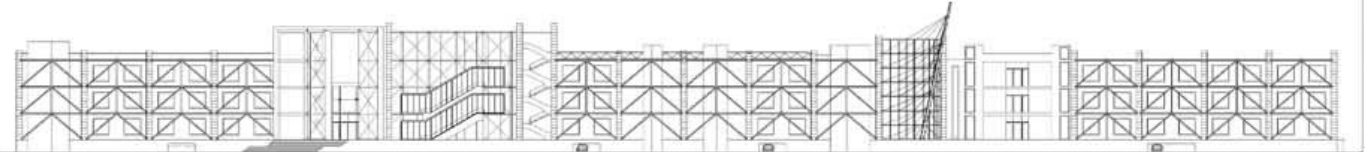


Example from case study, mall at GURGAON.

PROPOSAL DRAWINGS



SECTIONAL ELEVATION



FRONT ELEVATION

DETAILS FOR STRUCTURAL EXPRESSIONISM(SPECIAL STUDY)

SUPPORTING MEMBER SCALE 1:20

TENSION MEMBERS ON FACADE SCALE 1:50

STRUCTURAL ROSE CONNECTION SCALE 1:50

SPIDER DETAILS SCALE 1:50

BALUSTRADE DETAIL IN ATRIUM SCALE 1:20

RAMP DETAIL IN THE BASEMENT SCALE 1:50

GLAZING INTERFACE DETAILS IN ESCALATOR SCALE 1:100

FACADE DETAIL SCALE 1:100

ESCALATOR DETAILS SCALE 1:50

COLUMNS AND BEAM CONNECTIONS SCALE 1:50

PLAN

SECTION

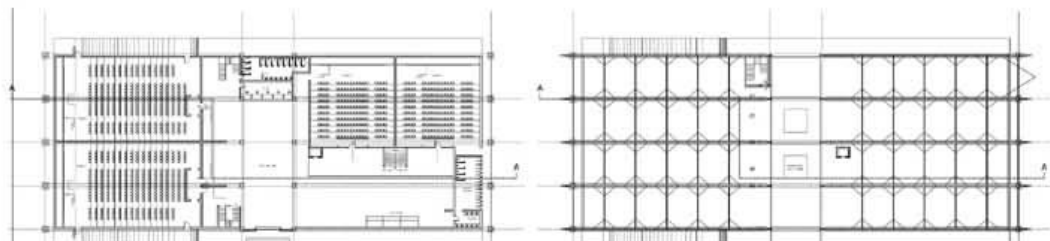
BASEMENT FLOOR

GR FL

BA FL

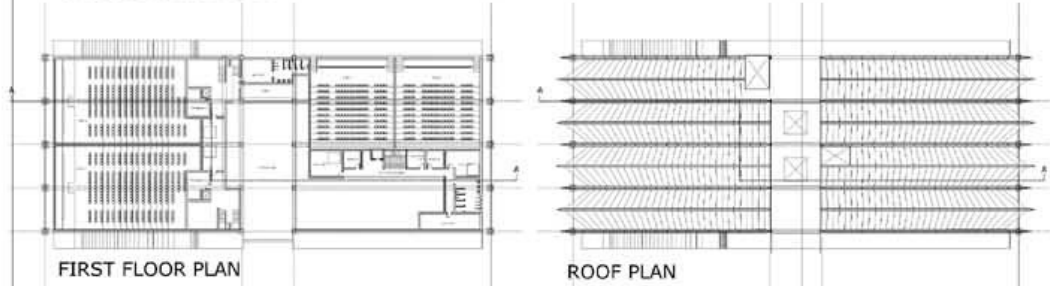
THE URBAN HUB WHERE THE MASS STARTS IMPLoding	
SITE AT GURGAON	PROJECT SHOPPING MALL
DRAWING SECTION, ELEVATION AND DETAILS	DATE 27/04/05
PREPARED BY KRITI SANKH	CHECKED BY DR. RAJESH K. SHARMA
APPROVED BY DR. RAJESH K. SHARMA	DATE 27/04/05

NOTE: ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.



GROUND FLOOR PLAN

ROOF STRUCTURE FLOOR PLAN



FIRST FLOOR PLAN

ROOF PLAN

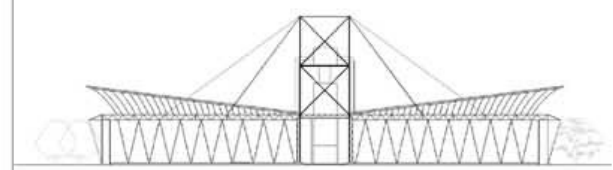
DETAILS FOR STRUCTURAL EXPRESSIONISM(SPECIAL STUDY) SCALE 1:20

CONNECTION A AND B

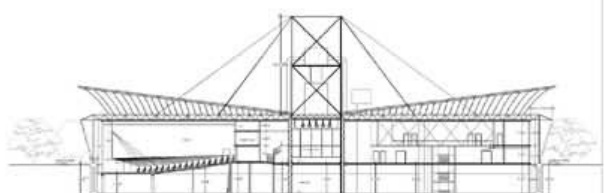
CONNECTION C AND D

CONNECTION E AND F

CONNECTION G



FRONT ELEVATION



SECTION AT A-A