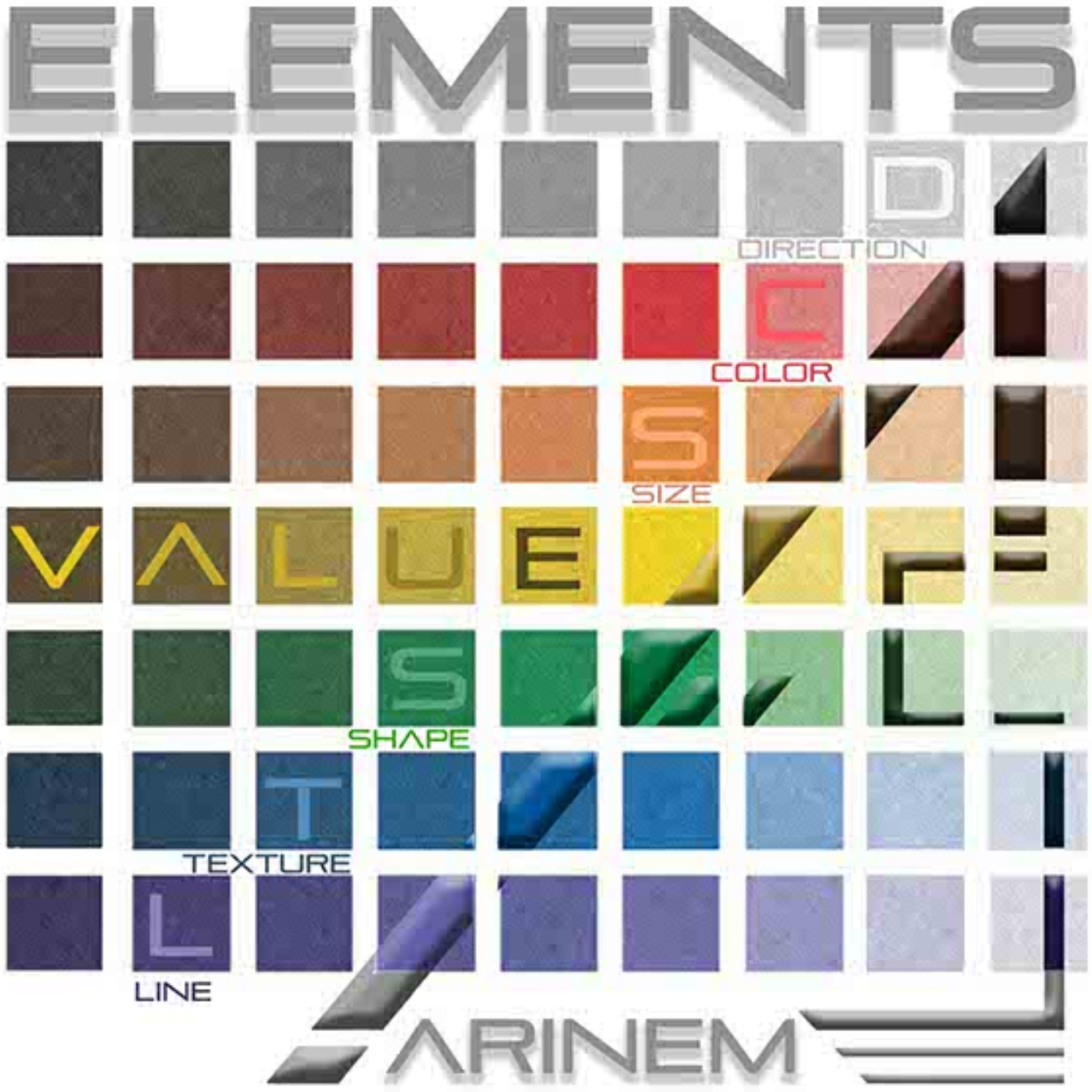
ELEMENTS
D
DIRECTION
C
COLOR
S
SIZE
VALUE
F
S
SHAPE
L
T
TEXTURE
L
LINE
ARINEM

ARINEM

CONSULTANCY SERVICES

ARCHITECTURE **I**NTERIORS **N**FRASTRUCTURE **E**NGINEERING GREEN RESOURCE ASSESMENT & **M**ANAGEMENT

Reach us-www.arinem.com

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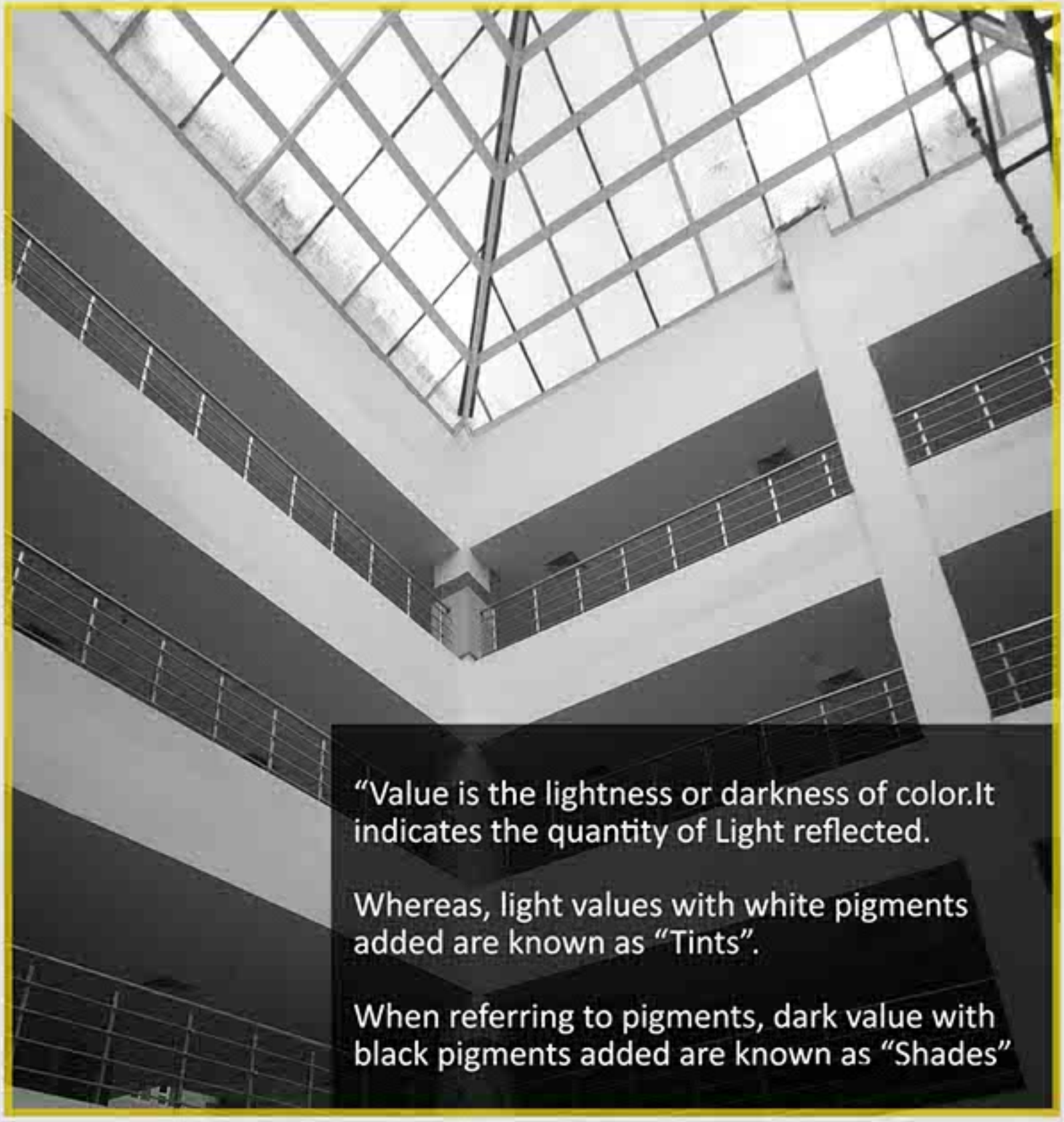
Fax- +91 522-2209800, Ph no. - +91 522-4107252, 011-41525299


"Value is the lightness or darkness of color.It indicates the quantity of Light reflected.
Whereas, light values with white pigments added are known as "Tints".
When referring to pigments, dark value with black pigments added are known as "Shades"

ICONIC & COMPETITION WON PROJECTS


Baiyappanhali Railway Station


Bus Station And Hotel, Faizabad


PTC Industries,Lucknow


Dhenumati Apartments


Safdarjung Auditorium


ABVP Complex


Commercial Complex


Office Complex


Office Building


Sports Complex


Group Housing, Siddharth Vihar


Convention Centre

VALUE

Architecture is a balanced composition of art and science.
Where art is the medium to express and science is arrangement how you connect.

Suffice to say that Architecture is a language which establishes a dialogue between our work and world. Impact of dialogue depends upon the values of language used.

It is better to say “Architecture is an expression of values” or in simple words, our works create values.

For us, every project is handled with the same sense of responsibility and values. We assure our best and quality services to each one.

Our intent is to give unique and customised design solutions blended with our responsibility towards society and environment.

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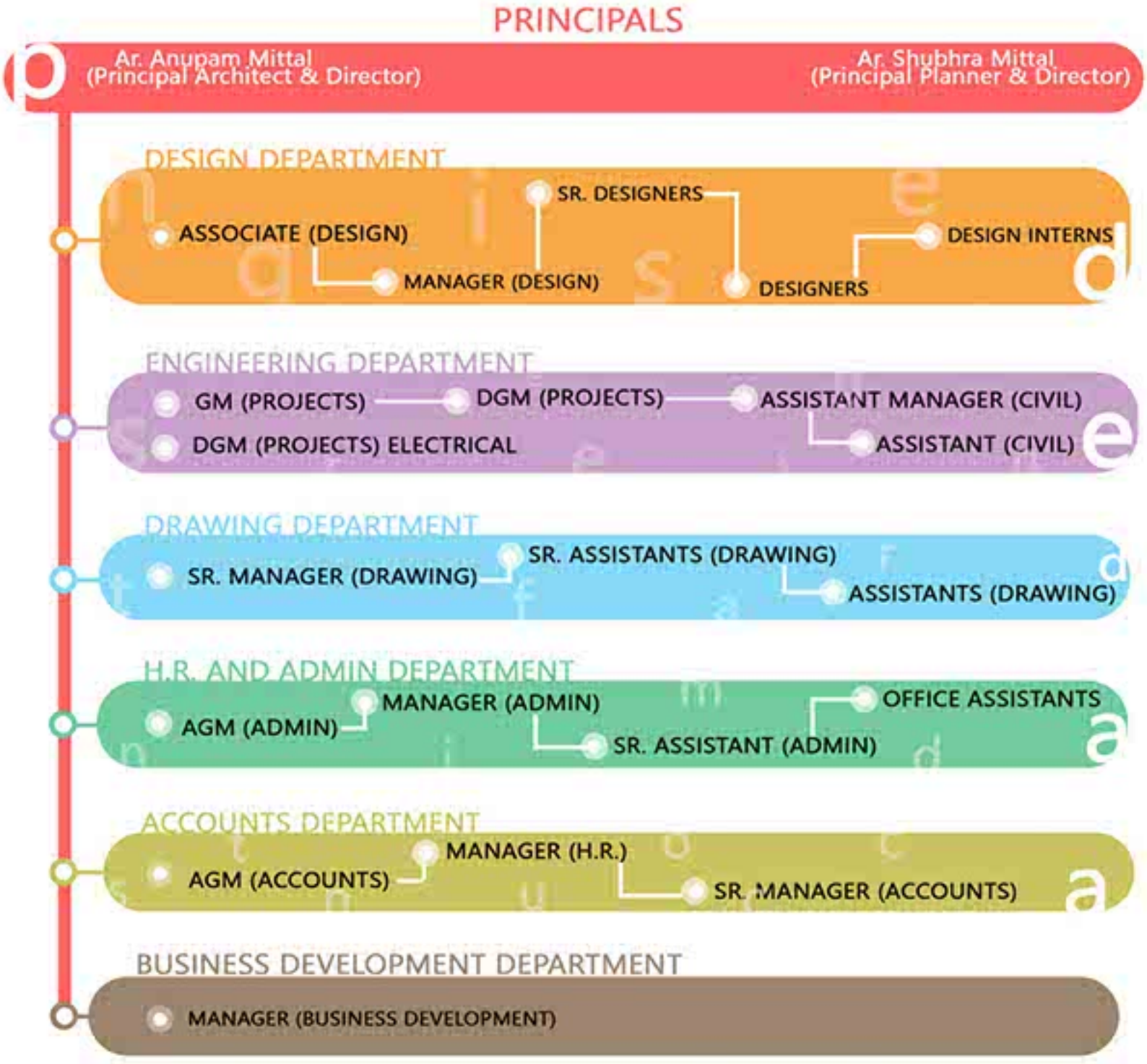
- INFRASTRUCTURAL
- MEDICAL FACILITY
- INSTITUTIONAL
- COMMERCIAL AND INDUSTRIAL
- HOSPITALITY
- LANDSCAPE/ENTERTAINMENT & RECREATIONAL


PRINCIPALS
Ar. Anupam Mittal
(Principal Architect & Director)
Ar. Shubhra Mittal
(Principal Planner & Director)
DESIGN DEPARTMENT
ASSOCIATE (DESIGN)
SR. DESIGNERS
MANAGER (DESIGN)
DESIGNERS
DESIGN INTERNS
ENGINEERING DEPARTMENT
GM (PROJECTS)
DGM (PROJECTS)
ASSISTANT MANAGER (CIVIL)
DGM (PROJECTS) ELECTRICAL
ASSISTANT (CIVIL)
DRAWING DEPARTMENT
SR. MANAGER (DRAWING)
SR. ASSISTANTS (DRAWING)
ASSISTANTS (DRAWING)
H.R. AND ADMIN DEPARTMENT
AGM (ADMIN)
MANAGER (ADMIN)
SR. ASSISTANT (ADMIN)
OFFICE ASSISTANTS
ACCOUNTS DEPARTMENT
AGM (ACCOUNTS)
MANAGER (H.R.)
SR. MANAGER (ACCOUNTS)
BUSINESS DEVELOPMENT DEPARTMENT
MANAGER (BUSINESS DEVELOPMENT)

From the desk of Directors

Ar. ANUPAM MITTAL
(Principal Architect & Director)

It gives me an immense pleasure to present **ARINEM'S** Profile Book (**VALUE** Edition) for the year 2017-2018. First and foremost I would like to give my thanks to the entire team of ARINEM for giving their love and constant support and doing efforts to transform our dreams into reality. Without their team spirit this would have not been possible to reach the heights where we are at present.

ARINEM started its journey way back in 1995 with a name **"Architect's plus"** rooted by the experienced directors. Our vision was to bring in par excellence to the architectural services. Working in various sectors and mainly focused towards community development with innovative structure and service planning for best utilization of money.

Remembering the time when we just started, it feels that we have left a lot behind and have taken forward only the best with us. We had an amazing journey, from an epoch when pencil, paper and stencils use to be our primary tools to the present day, where we have software for every single thing a mind can imagine.

Starting from Lucknow to Delhi, adding Pune and heading towards Bangalore and Hyderabad now we have come a long way. We specialized in monolithic concrete construction technology actually initiated by ARINEM have been passionately followed, researched and used in many of our projects.
Awards always bring smile on our faces and we should be habitual of smiling more often.

The ICI (Indian Concrete Institute), Western UP chapter, recognized this innovative approach in concrete design recently by awarding our projects, Multi-level parking in Ghaziabad, Four storied Sapna enclave at Ghaziabad and Multi-storied Residential building at Siddharth Vihar, Ghaziabad with outstanding Concrete structure.

We have been awarded by **HUDCO (Housing & Urban Development Corporation)** under government of India for commendation of work done for sustainable & green building for my own house in Lucknow.
Latest in the kitty is the biggest of above, because it is from the Indian Railway Stations Development Corporation Limited **(IRSDC)** for **INTERNATIONAL DESIGN COMPETITION, 2017**. We have been awarded with the Second Prize for Baiyappanhalli (Bengaluru) Railway Station and Third Prize for Gwalior Railway Station respectively.

"With the experience of our great past, thoughtful exercises to make a greater present and create a positive vision to build up a greatest future is our way to move forward".

From the desk of Directors

Ar. SHUBHRA MITTAL

(Principal Planner & Director)

"**ARINEM** is a design studio offering consultancy for architecture, interior design, engineering and management services.

We as humans respond to everything around us. The built spaces affect us; we adapt, we evolve and we get used to things around us.

As architects we hold this responsibility of shaping the spaces that influence the inhabitants be it a house, a restaurant, a hospital, a hotel, an institute, an office or a resort, thus it's essential to create spaces that provide both physical and emotional comfort.

Here at **ARINEM** we strive to build environmentally conscious sustainable buildings aimed at redefining the lives of people who inhabit/ use them.

We believe in the amalgamation of 'Architecture and Art' as the foundation of creating spaces that converse with its surroundings within and out.

We believe in constantly growing as human beings and as designers along with our supportive team and our trusting clients who believe in us and give us opportunities to keep raising the bar to further evolve as a design practice. "

TEAM ARINEM


Ar. Anupam Mittal
(Principal Architect & Director)
B.Arch.- 1994


Ar. Shubhra Mittal
(Principal Planner & Director)
B.Arch.- 1997,M.U.R.P.- 2013


Ar. Madhup Mazumdar
Associate (Landscape)
B.Arch.-1999


Ar. Purva Singh
Associate (Design)
B.Arch.-2003, M.Arch-2012


Ar. Siddharth Srivastava
Associate (Design)
B.Arch.- 2008


Ar. Pramod Kumar Maurya
A.G.M. (Design)
B.Arch.- 2000


Er. S. Kameswar Rao
General Manager (Projects)
B.E. Civil Engineering -1980


Ar. Vinay Vishwakarma
Associate(Design)
B.Arch.-2010,M.U.R.P.- 2013


Ar. Vimal K.Chaurasia
Associate (Design)
B.Arch.- 2010,M.Arch.- 2013


Ar. Shilpi Saxena
Manager (Design)
B.Arch.- 2008


Ar. Manoj Yadav
Manager(Design)
B.Arch.- 2012


Mr. Mohd. Shariq
AGM (Accounts)
M.Com.- 1996


Mr. Manas Tiwari
Senior Manager (Admin)
B.Sc.- 2005


Ar. Ashwani Sharma
Senior Designer
B.Arch.-2013

TEAM ARINEM

Ar. Pooja Rastogi
Designer
B.Arch. -2014, M.Plan. -2017

Ar. Sanjana Jain
Designer
B.Arch. -2014

Ar. Sadhna Kumari
Designer
Dip. (Arch.)-2006,B. Arch.-2016

Ar. Sadia Husain
Designer
B.Arch. -2016

Er. Vishwas Gupta
Assistant Manager (Civil)
B.Tech(Civil)-2014

Ms. Janak Nandini Gupta
Assistant (Drawing)
Dip.(Arch.)-2012

Ms. Deepti Kanouja
Sr.Assistant (Interior)
Dip.(Interior)-2005

Ms. Sunita Sharma
Senior Assistant (Drawing)
Dip.(Arch)-2007,B. Arch-2017

Ms. Richa Singh Chauhan
Dip.(Arch)-2005

Ar. Harleen Chug
Designer
B.Arch 2016

Ar. Mohit Goyal
Designer
B.Arch 2018

Ms. Rimi Prabhakar
Assistant- Graphic Visualizer
B.A.-2009,Adv.dip.(in 3D)- 2011

Mrs. Anjali Yadav
Assistant- Graphic Visualizer
BCA/Adv. dip.(3D)- 2013

Mrs. Renu Gupta
AGM (Coordinator)
B.Sc. - 1983

Ms. Kanchan
Sr. Asst. Civil
Dip. (Civil Eng.)

Mrs. Nidhi Chandola
Sr. Asst. Business Development
& Designer
B.A.- 2002

Mrs. Sandhya Das
Senior Assistant (Admin & HR)
MBA (HR) - 2015

Mr. Bansraj
Sr. Office Assistant

Mr. Shishupal
Office Assistant

Mr. Parvesh
Office Assistant

1993
1994
1995
1996
1997

ARCH-PLUS ESTABLISHED....

PROFESSIONALS

"THE BEGINNING OF A JOURNEY UNEXPRESSABLE IN WORDS, FOR IT IS NOT THE NUMBER OF STEPS THAT COUNT, BUT THE COURAGE OF THE FIRST ONE AND SO ON....."

2008 2009 **2010** 2011 2012

ENTRY IN NCR

OUR ENTRY IN NATIONAL CAPITAL REGION WITH 2000 DWELLING UNITS OF DIFFERENT SIZES IN GHAZIABAD

2006 2007 **2008** 2009 2010

FIRST HOUSING PROJECT IN MONOLITHIC CONCRETE CONSTRUCTION....

PIONEER GROUP HOUSING PROJECT IN U.P. BASED IN MONOLITHIC CONCRETE CONSTRUCTION WITH 3000 UNITS OF VARIOUS SIZE COMPLETED AND HANDED OVER WITHIN THE RECORD TIME OF 23 MONTHS

1995
1996
1997

START OF JOURNEY TOGETHER.....

AR. SHUBRA MITTAL JOINED AS THE PARTNER & DIRECTOR, STRENGTHENING THE SYSTEM TO ACHIEVE GREATER HEIGHTS

2004 2003 2002 2001 1999 1998

RESIDENTIAL- IRS APARTMENT

CORPORATE OFFICES- BAJAJ,TATA

INDUSTRIAL- DIVYAAYOG PHARMACY

INSTITUTIONAL- RAMMURTI SMARAK INSTITUTIONS

THE PERIOD MARKED THE BEGINNING OF BUILDING STABLE AND STRONG FOUNDATION FOR THE FUTURE ENDEAVORS.

ARINEM CONSULTANCY SERVICES ....

ARINEM

THE NAME ARINEM WAS GIVEN IN YEAR 2006

2008
2007
2006
2005
2004

2010 2011 **2012** 2013 2014

DELHI OFFICE- BARAKHAMBA ROAD, CONNAUGHT PLACE

ESTABLISHMENT OF BRANCH OFFICE IN NATIONAL CAPITAL.
THUS BEGINS THE JOURNEY TO GROW AND RISE

JNNURM- MASS HOUISNG

8420 DWELLING UNITS UNDER AFFORDABLE HOUSING SCHEME OF JNNURM BASED ON MONOLITHIC CONCRETE CONSTRUCTION IN DELHI

FIRST OVERSEAS PROJECT

THE FIRST OVERSEAS PROJECT WAS AT FIVE LOCATIONS ON TWO ISLANDS OF MALDIVES.

2011
2012
2013
2014
2015

NATIONAL AWARDS

AUDITORIUM

LECTURE THEATRE

BOYS HOSTEL

SAFDARJUNG COMPLEX

WON PRESTIGIOUS COMPETITION FOR UPCOMING HOSTELS, LECTURE THEATRE AND AUDITORIUM BUILDINGS IN SAFDARJUNG HOSPITAL COMPLEX.

2013
2014
2015
2016
2017

AWARDS

RECIEVED AWARD FOR GREEN BUILDING

HUDCO DESIGN AWARD

POLICE PERSONNEL HOUSING, MADHYA PRADSH

PROJECT OF POLICE HOUSING STARTED IN MADHYA PRADESH

ICI AWARD FOR MULTILEVEL PARKING

2012 2013 **2014** 2015 2016

GROUP HOUSING, AMRITSAR

INTERNATIONAL EXHIBITION CENTRE, AMRITSAR

STATE GUEST HOUSE, BHOPAL

POLICE PERSONNEL HOUSING, DELHI

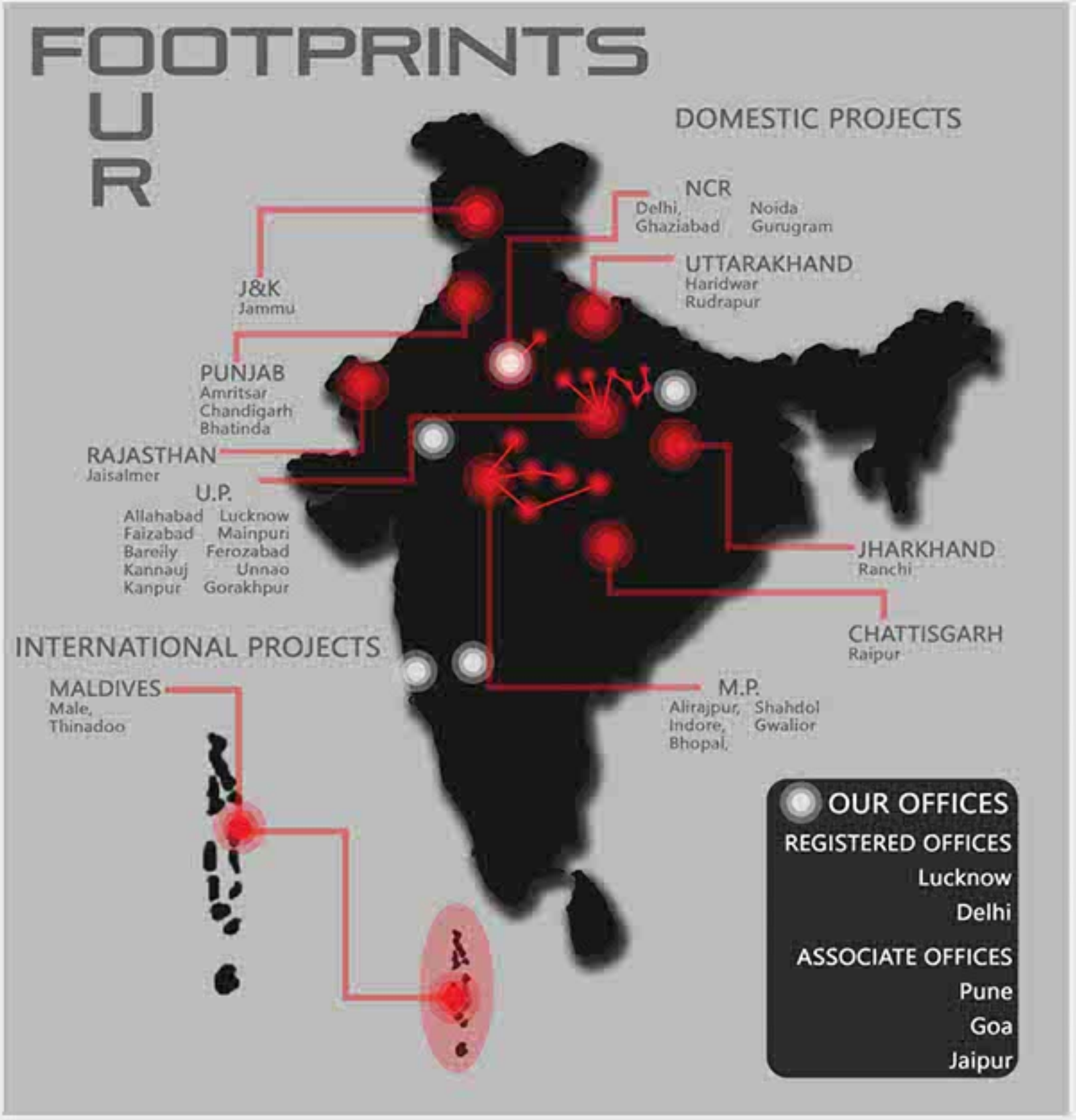
AWARD ICI

PROJECT OF POLICE HOUSING IN DELHI

2014
2015
2016
2017
2018

FOOTPRINTS

OUR



OUR USP

MISSION

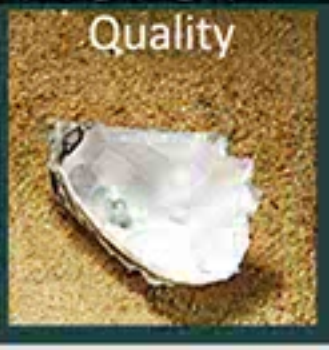
SUSTAINABILITY THROUGH ENVIRONMENTAL RESPONSIBILTIY

SOCIAL RESPONSIBILITY

OUR SERVICES

- ARCHITECTURE
- INTERIOR
- INFRASTRUCTURE
- ENGINEER
- GREEN RESOURCE ASSESMENT AND MANAGEMENT

VISION



AWARDS & CERTIFICATES

2015

2015

2016

2016

2018

AWARDS & CERTIFICATES

2018

EMPANELMENTS AND CLIENTS

RESIDENTIAL PROJECTS


"HUDCO DESIGN AWARD 2015 (CATEGORY - GREEN BUILDING)"
"IGBC GREEN HOMES-PLATINUM"
A SNEAK PEAK INTO "SAAR"

THE ARCHITECT'S HOUSE

GOKHLE MARG, LUCKNOW,U.P.

"Architecture is an expression of values"
- Norman Foster

Home is detailing of these values while keeping it's '**ESSENCE**' intact. Acknowledging the same, the Architect's House is named ' सार ' (The Essence)

" A HOUSE is the only place which is, being the reflection of our dreams, just perfect."

A house embodies the hopes and aspirations of the inhabitants; and when it's an Architect's house , the aspiration multiplies. Architects are seen as "trend setters" setting up good examples and changing the way people look at houses, from mere walls and slabs, to a 'House'.

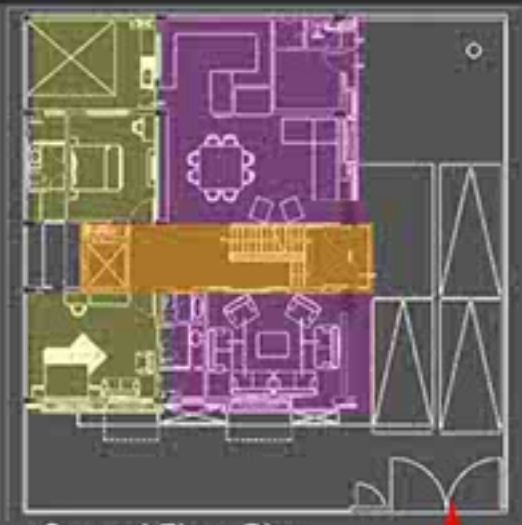
The architect couple were clear in the vision of their house , as Architect Shubhra Mittal recalls - " I was very clear in what I wanted in terms of planning , efficiency and resource management."

The architect's house was conceived with the central idea of giving back to the environment and developing a self sustaining structure which can house all comforts of a home.

SITE SELECTION

The site is located at Gokhle Marg, one of the prime residential locations enjoying good connectivity in Lucknow. The square plot with a plot area of 404.59 sqm is connected to 18m wide road through a 6 m wide access road. The access road provides the much needed privacy by keeping the plot away from the main road.

THE PLANNING



Ground Floor Plan

First Floor Plan

The central core divides the plan into self containing yet interactive spaces.

Terrace Floor Plan

Organization of Spaces

Evolution of self defined spaces - The Zoning

The central circulation core comprising of staircase and lift automatically defines the public and private layering of spaces inside the house.

Living Room

Dining area adjacent to the mandir

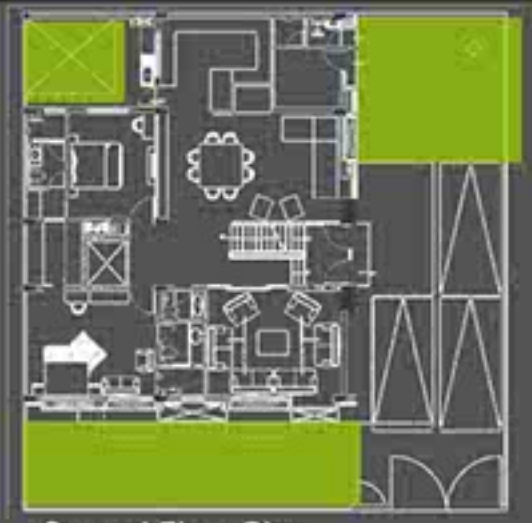
Enhancing Visual Perception

The volume of the space is enhanced by working towards a visual connection throughout the house. There are no interior walls except for the purpose of Toilets/Staircase. All other spaces are self defined through placement of architectural elements like Staircase, Lift and Toilets. Unnecessary enclosures are eliminated and where necessary, glass doors are provided to maintain the visual connection of the observer. This small exercise resulted in perception of a more voluminous space.

Central Staircase

Bar/Lounge at First Floor

THE PLANNING



Ground Floor Plan

First Floor Plan

Terrace Floor Plan

INSIDE - OUTSIDE

Bringing the Outside to the Inside

There was an effort towards merging the outside with the inside by incorporating green areas and also green terraces. The ground coverage was reduced to have more open green areas .

Terrace with spa pool

Central Lobby at Terrace Level

Play of Light and Shadow

The central staircase acts as "lungs" to the house providing natural light and ventilation. Natural light filters through the house and provides the feeling of being in the outside while staying inside.

Discovering Spaces

While moving through the house, there is an element of surprise in discovering spaces. The house takes a step ahead of conventional stacked planning and utilizes the plan to maximum potential. The house pushes the curiosity of the observer to move around the house and to have new experiences.

The Sky Lounge (Activity Area)

THE STRUCTURE

Tackling the South Facade

Ground Floor Plan

South facade with stone cladding and air gap to reduce heat gain

a) Deep Overhang
b) Double wall with air gap
c) Stone Cladding

The harsh sun on south facade was tackled and the heat gain reduced which in turn reduced air conditioning loads.

Exposing the framework

Eliminating Cross Beams
Flat Slab was used which eliminated cross beams and gave way to clear spans.

No jutting out Beams
All the beams are 200mm thick to merge with the blockwork of 200mm AAC block. This aspect gave way to clear corners in rooms.

Cantilevered Room
The Sky Lounge famously the 'Hanging Room' is a cantilevered slab supported by beams which are exposed and form a part of the building elevation.

The Sky Lounge (Activity Area)

Structure as Elevation
The structural elements like inverted beams in the front etc. are exposed and they form the part of the building elevation. There is no false work to hide the structure elements, rather the elements are exposed with a clever play of material over it.

BUILDING ELEVATION

The Horizontal planes

The house elevation was envisioned as horizontal floating planes supported by vertical planes . These floating horizontal planes gave way to spaces like the ' hanging room' and also provides natural shade .

SUSTAINABILITY

THINKING ' GREEN ' - Immediate measures

AAC BLOCKS

Use of foam concrete blocks (AAC) eliminates the use of conventional fire burnt bricks.

Material Conservation

Recycling old tiles by using it on Terrace/Mumty areas.

Automated LED lighting

Automated LED lighting with sensor driven technology reduces the lighting load to upto **60%**

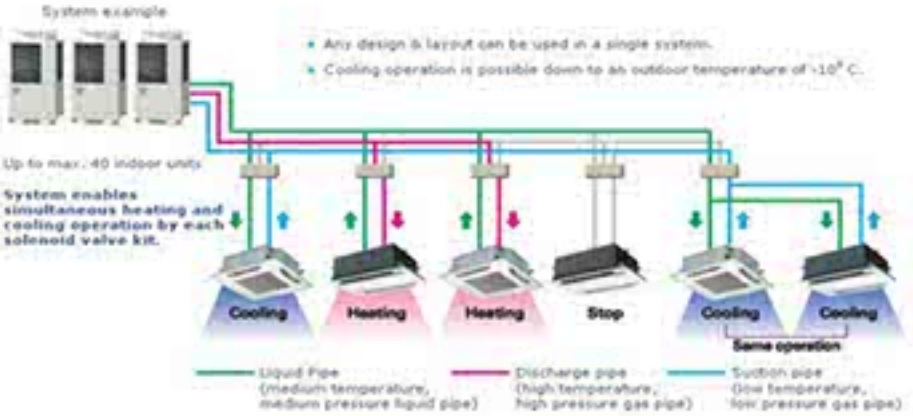
Low E-Glass

The immediate focus on reducing solar heat gain was to use low E glass. It reduces heat gain and keeps the interiors cool

Low E glass (image during construction)

VRV Technology

VRV Technology is used for Air conditioning which amounted to **40%** reduction in A/C loads



SUSTAINABILITY

THINKING ' GREEN ' - subsequent measures

Rain Water Harvesting

Rain water harvesting 4000L capacity tank. Recycled water used for gardening and washing.

Water efficient Taps

Installation of low flow water efficient taps and shower heads.

Solar Water Heater

Solar water heater is installed which provides **500L** of hot water per day.

Phytorid Based Technology (STP)

Use of Phytorid based STP (2400L capacity) which is self sustainable, environmentally viable technology and also has low maintenance cost.

Solar PV panels (Grid Tie System)

The spa pool at terrace level needed a canopy and the most immediate solution to that was placing Solar PV panels and utilizing the sun angle . The panels generates min. 11 KW of energy per day (assuming 6 hrs of sunshine per day).

Criteria	Capacity	% Reduction (projected)	Annual energy savings (projected - INR)
Solar water heater	500 L / day	100	40, 000 - 50, 000
Sewage Treatment plant	2400 L	50	17,000
Solar panels	11 kWh	30	50,000

THE HOUSE

A Reflection

Bar/Lounge

The Bar: An informal gathering space for friends/ family, open yet luxurious

The Teenager's Room: Personal, expressive and bold, the juxtaposition of great hopes and strong ideas of a young mind.

The Teenager's Room

Master Bedroom

The Master Bedroom: Smart, savvy & sophisticated, the abode of the successful couple.

The Younger Daughter's Room: Dreamy, Vibrant, Full of promises of stories and fun.

The Teenager's Room

The Younger Daughter's Room

Epilogue:

A house is an honest and personal project; right from it's conception, it is the vision of what ultimate comfort a person aspires to have. Likewise, so is the design of this project, which is an urban, luxurious house honest to it's inhabitants. Yet, it does not forget what it owes to the land on which it was built. Through myriad creative and subtle ways, the house operates on Green Building Principles and gives back to the environment, making it a successful model for luxury houses with an inherent humbleness and green objectives.

MULTI - STOREY RESIDENTIAL COMPLEX

FOR POLICE PERSONNEL

AT INDORE

CLIENT:MADHYA PRADESH POLICE HOUSING CORPORATION LTD.
LOCATIONS:
1. 15th BATTALION , INDORE: 1652 DU's
2. PIPLYAHANA , INDORE: 960 DU's
3. RAU, INDORE: 1190 DU's
4. 1ST BATTALION, INDORE: 492 DU's
5. GRP: 240 DU's

MULTI-STOREY RESIDENTIAL COMPLEX FOR POLICE PERSONNEL AT 15th BATTALION , INDORE MP

Residental quarters for NGO and CONSTABLES, are proposed which intend to improve its economical and physical quality for police personnels.

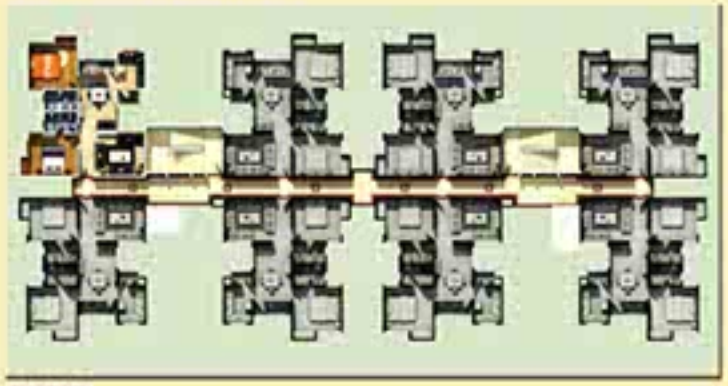
UNIT DESIGN

Designs of units are envisaged to maximize natural light and cross ventilation.Mutual shading of blocks and innovatively placed chajjas significantly reduces the heat gain.

NGO UNIT

CONSTABLE UNIT

CLUSTER PLAN



NGO

CONSTABLE

NGO
UNIT AREA 79.75 Sqmtr
SUPER AREA OF ONE UNIT
99.14 Sqmtr

CONSTABLE
UNIT AREA 64.07 Sqmtr
SUPER AREA OF ONE UNIT
82.56 Sqmtr

SITE PLAN

SITE

Larger facades are facing east or west adopting north-south orientation, it reduces the heat gain. Each cluster are given its own elaborated green spaces which could be use as public activity area. Solar street lights are used to conserve electricity.

PHASE 1 - 944 UNITS
PHASE 2 - 826 UNITS

SITE AREA	60998.03 Sqmtr (15.07 acres)
UNITS	1652 UNITS
Total Built-up Area	145920.30 Sqmtr
FAR	1.75
Ground Coverage	16.02 %
Height	GROUND+14 (42.15m)
Parking	Four Wheeler- 1357
	Two Wheelers - 200

METHODOLOGY

The implementation of such a large project requires high degree of responsibilities and can be completed by adopting "best practices" in Building design and Construction,

a)In the field of Planning i.e. orientation and optimum utilization of land with green spaces, effective planning of indoor spaces, natural lighting, natural ventilation.

b)In terms of time and quality, Monolithic concrete construction has been used which helps in reducing time and cost and improves quality.

c)Types of materials are used which have good qualities and high strength values.

PLANTATION AND PAVEMENT

The use of green-grid paving blocks for parking areas reduce the heat gain on the surface because of the green pockets in between the concrete blocks; thus reducing the absorbed and reflected heat gains resulting in a comparatively cooler surface and air temperature.

SITE VIEWS


Block View


Block View


Arial View


Road View


Green Area


Balcony View

MULTI-STOREY RESIDENTIAL COMPLEX FOR POLICE PERSONNEL AT PIPLYAHANA, INDORE, MP

Madhya Pradesh Police Housing & Infrastructure Development Corporation Ltd. Bhadbhada Road Bhopal propose to Construct 960 Residential Units in Multistory Complex at Indore.
The Main Requirements of the Residential Complex are following:

1. Housing Units of Different sizes and Specifications as per entitlement by MPPHC.
2. Perimeter Wall and Security System.
3. Community Center, Common Areas, Parks.
4. Convenience Shopping.

Distribution of Housing Units are as under:

NGO's	240 Units
Constable's	720 Units


Aerial View

SITE AND ITS CONNECTIVITY

The proposed site is located in Housing Scheme no. 140 at Piplyahana, Indore, M.P. having site area of about 7.91 Acres in the Residential Zone as per Master Plan Indore.Site abutting 30 m Wide Road in the West.Site is surrounded by Residential colonies like Neer nagar, Revenue nagar etc.Site is connected with Railway Station which is about 8.5 Km and Airport about 14.1 km.


Road Side View


Top View

DESIGN CONCEPT

The site is approached by the 30 m wide road which pass through the site dividing it in two parts i.e. Residential complex and Community Center.The 6 Constable Towers are provided together in the rear side around the central Landscape chunk allowing the each tower occupant to have the view of the Central greenery and connecting to the Nature.The 2 NGO Towers Long side are parallel to the Road forming the First sight while entering to the Site. The Central Green space in the center allow vehicle free pedestrian movement and connect each tower ocupant to the Central Landscape park.The Road is provided along the Boundary wall reducing the Road area on the site and connect each Tower Stilt Parking.

Units of the NGO and Constable are design with Balcony in the Living area to allow ample light and ventilation.Cross ventilation in the Bedrooms is achieved. The construction of the Building is proposed in the Shear wall technology as it increase the Carpet area as compared to framed construction technology due to no column and beams.The shear wall technology provide more flexibility in the design as Column and beams hinder the Furniture layout.Finish of the wall and slab are very smooth and does not require plaster. Solar energy is used for lighting the common areas like Corridor, Staircases, and stilt. Solar Street Lights are proposed for External Lighting.

SITE VIEWS


Entrance Gate


Front View


Green area


Kids area

SITE PHOTOGRAPHS

MULTI-STOREY RESIDENTIAL COMPLEX FOR POLICE PERSONNEL AT RAU,INDORE, MP

EXTERNAL LINKAGE

The site is situated near the MediCaps Institute of Technology & Management on the AH 47 Highway near the Indore city. Site is around 15 km from the Indore Railway Station. The Rau Bus Stand is at a distance of 2.4 km while the Indore Airport is around 16 Km from the site location.

SURROUNDINGS/ CONNECTIONS

The site is divided into three parts by two Municipal roads passing through the site. Site is adjacent to the Medi Caps Institute of Technology & Management and Red Maple Resort on Northern side. The site is surrounded by fields on the other sides.

ROAD AND PATHWAYS

The road passing through the site is 18 m wide. The internal Roads on site for vehicular movement are proposed 7.5m to 9m wide while the pedestrian pathways/jogging tracks inside the side would be 1.5m to 2m wide.

ORIENTATION

The road passing through the site is 18 m wide road. The internal Roads on site for vehicular movement are proposed 7.5m to 9m wide while the pedestrian pathways / jogging tracks inside the side would be 1.5m to 2m wide.

TEXTURED PAINTS

The textured paints used on exteriors not only help in a more durable surface but also reduces heat gains into the building through walls as it increases the surface area of the wall due to textured contours.

Perspective View

Top View

PLANTATION AND PAVEMENT

The use of interlocking pavements for parking area reduce the heat gain on the surface because of the green pockets interlocked with the pavement stones thus reducing the absorbed and reflected heat gains resulting in a comparatively cooler surface and air temperatures.

Aerial View

MULTI-STOREY RESIDENTIAL COMPLEX FOR POLICE PERSONNEL AT 1st BATTALION, INDORE, MP

SITE DESCRIPTION

The site is located in the campus complex of 1st battalion, indore on a total land area of 72.43 acres.

Proposed on site is construction of ngo and constable quarters. NGO: G+14) 5 blocks = 590 units. Constable: (G+14) 14 blocks = 1652 units. total units = 2242 units.

As this is existing campus with existing infrastructure and plantation, placement and orientation of blocks have been such that it utilizes the existing connections while saving the maximum existing green area with trees.

Each block overlooks its own green park/space while parking is along the roads and on stilt floor. Stadium or Parade Ground is also proposed. Area for future expansion is also proposed. The master planning is done such that minimum tree line is disturbed and approach and connectivity between the areas is maximum.

TYPE : RESIDENTIAL

RESIDENTIAL QUARTERS & BARRACKS FOR CRPF

AT KADARPUR, GURUGRAM

CLIENT: CENTRAL PUBLIC WORKS DEPARTMENT
SITE AREA : 324.19 Acres
BUILT UP AREA: 88383.44 SQ.M.
PROJECT COST: 154.80 Cr.

The main purpose of the project is to provide housing facilities for CRPF personnels and will have provision of basic infrastructure services like roads, sanitation,water supply and power supply.

Monolithic Concrete Construction Technology, using Aluminum form work is proposed for type-2 quarters (700 units)

-Faster Completion of project to benefit users.
- Better Earthquake resistant structure
- Higher carpet area for same built up area.
- Better Aesthetics as there are no columns & beams Projections
- Better & Consistent Quality, Faster Construction, Less Labour intensive

There will not be any obstruction of a view, scenic amenity or landscapes since such factors had been taken into consideration while formulating the project design concept. It is proposed to develop landscape and green area in approx. 60% of total plot area. Development of green belt is of immense importance, as it will not only act as pollution sink for dust emissions, gaseous pollutants and noise pollution but also enhances the visual appearance of the developed site. Necessary provisions for barrier free movement of physically handicapped, such as ramps, railings, staircase width, lifts etc. have been incorporated in the design. Provision of daylight to provide natural lighting, and the reduce need for artificial lighting.

Common areas have been designed to provide maximum daylight. To reduce heat gain, the clusters are generally arranged east to west to increase mutual shading between the building and minimizing the exposure of building towards south and south-west. During summer in this region, the predominant wind directions are from west in the morning and either west or northwest in the evening. Design methodology adopted focuses on enhancing the internal spaces while optimising the utilization of energy.

Heat reflecting paints have been applied at external walls to minimize heat gain. Maximum natural ventilation is provided to each building. Each building has open area arrangements on opposite sides of the apartment. This arrangement will encourage cross ventilations through the blocks reducing the necessity for air conditioning. Glass is only used in windows which have projections.

On site construction photographs

TYPE : RESIDENTIAL

RESIDENTIAL QUARTERS & BARRACKS FOR CRPF

AT PAPPANKALAN, NEW DELHI

CLIENT: CENTRAL PUBLIC WORKS DEPARTMENT
SITE AREA : 19.88 Acres
BUILT UP AREA: 26848.74 SQ.M.
PROJECT COST: 62 Cr.

360 WOMEN BARRACK

On site construction photograph

The main purpose of the project is to provide housing facilities for CRPF personnels and will have provision of basic infrastructure services like roads, sanitation,water supply and power supply.

Monolithic Concrete Construction Technology, using Aluminum form work is proposed for type-2 quarters (208 units)

-Faster Completion of project to benefit users.
- Better Earthquake resistant structure
- Higher carpet area for same built up area.
- Better Aesthetics as there are no columns & beams Projections
- Better & Consistent Quality, Faster Construction, Less Labour intensive

There will not be any obstruction of a view, scenic amenity or landscapes since such factors had been taken into consideration while formulating the project design concept. It is proposed to develop landscape and green area in approx. 60% of total plot area. Development of green belt is of immense importance, as it will not only act as pollution sink for dust emissions, gaseous pollutants and noise pollution but also enhances the visual appearance of the developed site. Necessary provisions for barrier free movement of physically handicapped, such as ramps, railings, staircase width, lifts etc. have been incorporated in the design. Provision of daylight to provide natural lighting, and the reduce need for artificial lighting.

TYPE : RESIDENTIAL

AKASH APARTMENT

SECTOR-6 VRINDAVAN YOJNA, LUCKNOW

CLIENT: U.P. HOUSING & DEVELOPMENT BOARD.
BUILT-UP-AREA: 65304.04 SQ.M.

This is the first multistoried project (B+S+11) of Uttar Pradesh Awas Evam Vikas Parishad. The existing site area of this project is 27964 sqmt with built up area 65304.04 sqmt .The Apartment is located in Vrindavan Scheme, Lucknow. The building has 3BHK+ Study, 3BHK, 2 BHK & 1 BHK flats with all the modern amenities. The project was constructed on Shear wall technology to reduce the cost of construction and to increase the pace of construction. The building structure is earthquake resistant. The carpet areas are free from structural members offset giving neat and clean interior spaces. The Apartment has 616 dwelling units. The apartment has club house, swimming pool, lifts, fire fighting systems, rain water harvesting, landscape garden, children play area etc. Apartment is based on monolithic concrete construction using aluminium form work, which is rapid and quality construction.

TYPE : RESIDENTIAL

RIVER VIEW ENCLAVE

SEC-4, GOMTI NAGAR EXTENSION, LUCKNOW

CLIENT:LUCKNOW DEVELOPMENT AUTHORITY
BUILT- UP AREA: 484500 SQ.M.,
ESTIMATED COST: 780 Cr.

River View Enclave, Gomti Nagar Extension

Riverview Enclave was the first building of Uttar Pradesh, constructed in Monolithic (Shear Wall Technology). It was a highrise residential scheme with approx 3173 units. Situated in the porsh locality of Gomti Nagar Extention, the building attracts the people towards it. The building has 2 BHK, 3 BHK & penthouse apartments. The client of the project, Lucknow Development Authority provided us with an opportunity to add a new fabric to Gomti Nagar Extension and we have been able to successfully fulfill their dreams as well as well as fulfill user's requirements.

MATERIALS &CONSTRUCTION DETAILS -

Shear wall construction technology was used which helped in-

1. Completing the work in less time.
2. Reduces the cost of the project.

•In shear wall construction, the wall thickness is reduced upto 100 mm, as brick wall has thickness of 250 mm and it has wall thickness of 150 mm and it gives fine finishing so the cost of plastering is also saved. Due to decrease in wall thickness the carpet area of flat is also increased.

•The openings were detailed out in plans & elevations and the form-work for maywan shuttering is made accordingly. This saves cost of sill and lintel casting for openings as in brick wall.

•The elevation elements were kept minimal & in rhythm with the structure giving it modern & simple look to the overall facade. The repetition of elements helped in simplicity of construction which was necessary for constructing shear wall structure.

•The bonding between brick & concrete was not required in exterior walls so the possibility of cracks was totally abandoned which resulted in increase in durability, life & strength of building as maintenance required was very minimal. It could bear extreme climatic conditions & one never has to face problems of weathering effects & water seepage.

•The steel used in this project has strength more than 500 mpa and is earthquake resistant.

SPECIAL FEATURES -

The project is awarded the title of **"The Fastest Completed Residential Project in India"** by ECC division of L&T.

• The compact clustering and pedestrian orientation of the buildings, and the heterogeneity of the user group produces a strong sense of community.

• Grassy common space and hard surfaced public space were integrated into the scheme.

• The architecture strikes a subtle balance between contextual and technical appropriateness on one hand, and on the other, modern standards for space organization, amenities and services comfort of the residents. This balance rests on right choice of simple durable materials and their explicit detailing.

• Functionally, Shear wall helped in optimum use of building in sense of strength, earthquake resistance, maintenance free, maximum carpet area & many more factors.

• Visually, the project is blessed with fabulous view of Gomti river. The light color of facade had blended it with the surrounding environment & had created a nice & appealing ambience.

•Area of Gomti Nagar Extension was amended by the project. Our client Lucknow Development Authority has realized the potential of the area and has received a warm welcome from the residents of the city. This project changed the skyline of the city.

TYPE : RESIDENTIAL

DHENUMATI APARTMENTS

AT DALIBAGH, LUCKNOW

CLIENT : LUCKNOW DEVELOPMENT AUTHORITY.
BUILT - UP : AREA - 9618.39 SQ.M.

A high-end Apartment Building at Dalibagh, Lucknow, **Dhenumati Apartments** houses **54 luxury apartments** in a single tower block that has **Stilt + 14**.

THE CONTEXT

The site, located in a **posh residential** and institutional areas of Dalibagh, is nestled in the **immediate vicinity** of the **Gomti River**, and faces a **Musical Fountain Park** at one side. There are **neighbouring residential towers** on one side and an expanse of **low lying villas** on the other. The Vertical Villas, thus, enjoy an **unprecedented view** of rolling greens, clear skies and the river Gomti, providing a scenic view to residents each day. Complementing this ideal loction are **two main roads** on either side of the plot, one of them leading to a nearby **Zoo** and another being a **VIP Road.**

THE CONCEPT

The **concept** centers around the idea of **what constitutes a Villa,** which are basically individual units each with a **unique elevation** and a **flexibility** in planned spaces for modifications. This is the essential concept that has been instilled in the design of the units to enable them to be **Vertical Villas.**

CONSTRUCTION TECHNOLOGY

The apartments are built as a single monolithic RCC Structure with **Monolithic Concrete Construction Aluminium** form-work **(shear walls)** . Futhermore, all the building components including the unique elevation elements were cast **monolithically** and holistically, and no element had to be additionally installed later on.

This automatically translated into a **lower construction time** and **cost,** better construction **quality,** and a **monolithic earthquake resistant structure.**

Curved elevation elements were also cast holistically with the structure, eliminating earthquake hazards arising due to joints.

Lightweight and durable aluminium shutters are used throughout the building, increasing earthquake resistance.

UPVC Sliding Doors for balconies which utilise space.

Boundary wall

Entirebuildingcast monolithically which makes it a much more safer structure.

TYPE : RESIDENTIAL

PRIYADARSHINI

AT LUCKNOW

CLIENT: LUCKNOW DEVELOPMENT AUTHORITY
BUILT- UP AREA: 18605.26 SQ.M.

It is a low cost housing project of LDA. It has a frame work structure multistoried building of B+G+9 & B+G+10 block and a community centre. The site area is 8080.00 sq. mt. with builtup area of 18605.26 sq. mt.
Keeping in mind its cost, maximum possible facilities has been incorporated like landscape.

VIEWS

TYPE : : RESIDENTIAL

GROUP HOUSING AT GANGA, YAMUNA & HINDONE ENCLAVE SIDDHARTH VIHAR YOJNA,

GHAZIABAD

CLIENT:U.P.HOUSING & DEVELOPMENT BOARD
BUILT-UP AREA: 206261.33 SQM., DWELLING UNITS:1292 UNITS.

Ganga Yamuna And Hindon Enclave, is the Premium housing project of UPAVP in Siddharth Vihar, Ghaziabad. The project offers 1, 2, 3, 4 BHK & penthouses Apartment with flat area ranging from 63.50sqmt to 236.50 sqmt .

GANGA APARTMENT (S+20)	HINDON APARTMENT (S+20 & S+18)	YAMUNA APARTMENT (S+20)
4BHK+S: 128 nos SUPER AREA = 192 SQM 3BHK+S: 160nos SUPER AREA = 168 SQM	1BHK: 160 nos SUPER AREA = 63.5 SQM 2BHK: 288 nos SUPER AREA = 98 SQM	3BHK: 216 nos SUPER AREA = 128 SQM. 2BHK+s: 288 nos BUILT-UP AREA = 117SQM

CLUB HOUSE

CENTRAL GREEN

THE CONTEXT

Among the many luxurious amenities that the project hosts are extensive landscape, connected walkways and green environment."Art of state facilities" like lifts,swimming pools, gym, indoor games,community Centre.convenient shop etc. Unidirectional vehicular movement design in site with 39850 sqmt basement area exclusive for covered parking.with one entry & two exit ramps.

The Apartment is earthquake resistant and eco friendly by the garbage disposal system solar street lighting & Rainwater harvesting system.

SITE PLAN:

Total Site Area = 51715.51 SQ.M Total numbers of units = 1292 (G+2)
Ground Coverage = 16.71% Total built-up area = 166423 sqm
Green Area = 18% Basement Area = 39843 sqm
Building Height =63.15m Total = 206267sqm

TECHNOLOGY

The project was proposed in Monolithic Shear Wall Technology to reducing the construction time and save upon the cost by faster delivery of the project.

TYPE : RESIDENTIAL

EVEREST ENCLAVE

SECTOR-18, VRINDAVAN YOJNA, LUCKNOW

CLIENT: U.P. HOUSING & DEVELOPMENT BOARD.
BUILT-UP AREA : 133651 SQ.M., DWELLING UNITS : 432 , ESTIMATED COST: 180 Cr.

The Apartment is located in Vrindavan Scheme, Scheme, Lucknow. The building has residential flats with all the modern amenities. The apartment has club house, swimming pool, lifts, fire fighting systems, rain water harvesting, landscape garden, children play area. The Apartment is earthquake resistant and eco friendly with waste management system.

TYPE : RESIDENTIAL

HIMALAYA ENCLAVE

SECTOR-17 & 18, VRINDAVAN YOJNA, LUCKNOW

CLIENT: U.P. HOUSING & DEVELOPMENT BOARD.
BUILT- UP- AREA: 157369.22 SQ.M.

The project was constructed with the Monolithic Construction Technology which helped in a great extent in the faster construction of the project. The Apartment is located in a huge residential campus at Vrindavan Scheme, Lucknow. The existing site area of this project is 39811.43 sqmt with built up area 123050.53 sqmt .The building has 3BHK+ Study, 3BHK, 2BHK+Study, 2 BHK,1 BHK & Pent Houses flats with B+S+13 floors and all the modern amenities. The structure of the building is earthquake resistant. The road network of the campus has been designed on the basis of Barrier Free Movement for all types of vehicles. The Apartment has 1024 dwelling units. After getting the overwhelming response from Akash Apartment, the Uttar Pradesh Awas Evam Vikas Parishad stepped into the construction of Multi storied culture in a big horizon and this project is one of the biggest of its segment.

TYPE : RESIDENTIAL

SAPNA & AASRA ENCLAVE

AT SECTOR 4 & 5, DELHI SAHARANPUR ROAD YOJNA, GHAZIABAD

CLIENT: U.P. HOUSING & DEVELOPMENT BOARD.
SAPNA ENCLAVE: BUILT- UP AREA: 26944.89 SQ.M., ESTIMATED COST: 30.1 Cr.
AASRA ENCLAVE: BUILT- UP AREA: 27012.25 SQ.M., ESTIMATED COST: 29.8 Cr.

Sapna & Aasra Enclave is an affordable housing project built on a site area of 18.55 acres (7.5 hectares) and the no. of dwelling units is 5632. It has a shopping complex / community centre of area 1100 sq. metres, high school and primary school of area 2500 sq. meter and surface car parking for 1171 no. of cars and two wheeler parking for rest of the area. Recreational central green areas estimated to be 13% and has a total of 73 clusters. The 2BHK unit covers an area of 64.27 sq. meter and 3 BHK unit covers 85.74 sq. meter. The important steps for this project were : site selection, community development, smart design, user sensitive architectural inputs, smart and rapid execution and construction technology.

The site for the cost effective housing is selected while keeping in mind the growing migration of rural population to urban areas. It is located in a semi urban region to absorb the urban growth and also to take advantage of rural areas. The housing has active transport, availability of community facilities, healthcare and educational facilities. The transportation cost is low since only RCC is required in large quantities and time is saved as it is a speedy construction. It ensures a longer useful life of the constructed element. It is cost effective and more accurate cost forcast since concrete is an inert material that is easily recycled.

TYPE : RESIDENTIAL

SARGAM APARTMENT

AT JANKIPURAM, LUCKNOW

CLIENT: LUCKNOW DEVELOPMENT AUTHORITY
BUILT- UP AREA: 93700.01 SQ.M.

Group Housing at Sargam Apartment at Sector-J, Jankipuram Extension, Lucknow.

This particular apartment is based on **"Saat sur"** of music and building aesthetic portray the same. It is based on Shear wall technology.

The apartment is situated at the Sector- J in the porsh location of Jankipuram Extention, Lucknow. The existing site area of this project is 22862.01 sqmt with built up area 93700.01 sqmt. The Apartment has 4 BHK, 3 BHK, 2BHK+ Study and 2 BHK Apartments with B+G+17 floors. The project was constructed with the Monolithic Construction Technology which helped in a great extent in the faster construction of the project. The provision of double basement has been done in the design to have maximum parking facility in basement only so that the vehicle movement in the site can be minimized for hassle free movement of residents. The Monolithic Construction technology was proposed to minimize the project cost and increase the pace of construction. The building is Vastu Compliant and Eco Friendly with landscape garden, paved compound, rain water harvesting & has 720 dwelling units. The carpet area of the building is structural offset free which helped in easy interior works.

TYPE : RESIDENTIAL

SSB GROUP HOUSING

AT LUCKNOW

CLIENT: LUCKNOW DEVELOPMENT AUTHORITY
BUILT-UP-AREA: 26410.36 SQ.M.

Group Housing for SSB (Sashastra Seema Bal) at Sec-6, Gomti Nagar Ext. Lucknow.

Apartments Constructed on Shearwall technology for Shashstra Seema Bal. SSB is one of India's Central Armed Police Forces. There has been a Housing requirement in the capital city of Uttar Pradesh for employees of SSB for which Housing project is proposed in Gomti nagar area of Lucknow. The project of constructing flats for Sashastra Seema Bal (SSB) was conceptualised by Lucknow Development Authority. Total number of 415 flats were to be constructed for the same as mentioned below:

Type-V - 04 Nos
Type-IV - 14 Nos
Type- III - 55 Nos
Type-II - 308 Nos
Type-I - 34 Nos.

The project is based on frame structure technology with the modern amenities like rain water harvesting, fire fighting system, central green landscapping with the scenic view of River Gomti.

TYPE : : RESIDENTIAL

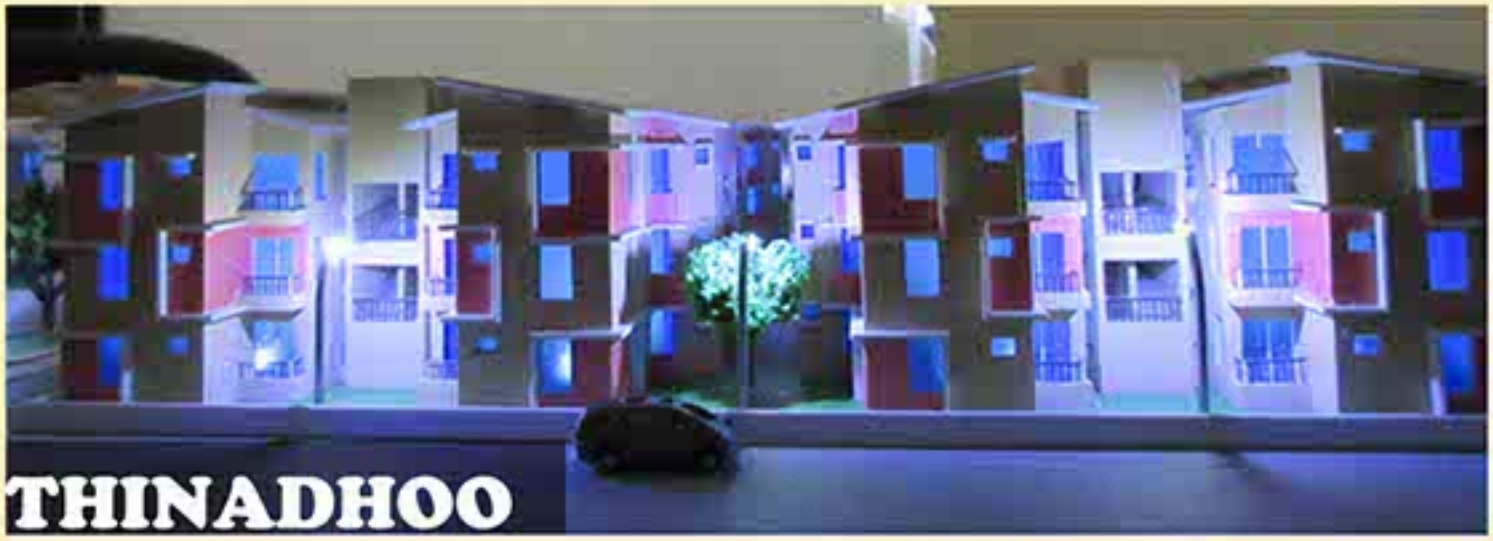
HOUSING UNITS FOR HULHUMALE AND THINADHOO

MALDIVES

CLIENT:OVERSEAS INFRASTRUCTURE ALLIANCE (INDIA)
BUILT- UP AREA:52190.77 SQ.M., ESTIMATED COST: 40 Million US$, DWELLING UNITS: 485

PURPOSE

Providing affordable housing is a one of the key pledge of the Government. As part of this pledge, the Government formulated the 10,000 housing program, under which 3000 housing units were allocated to Male, while the remaining 7000 housing units was allocated to 7 different provinces. The "Construction of Housing Units in Maldives on Design Build Basis project aims to construct 385 units in Hulhumale' while 99 units in Gaafu Dhaalu Thinadhoo.



THINADHOO

SITE DISCRIPTION

Thinadoo lies in 00 degree 31'22degree N and 73 degree 00'00 E Coordinates.
The site is rectangular in shape with approaching roads from three sides.

Aerial View

DRAWING /DINING AREA 3550 X 4800 KITCHEN 3350 X 1600 BEDROOM 1 4300 X 3250 TOILET 1400 X 2250 BEDROOM 3300 X 3050 BEDROOM 3300 X 3100 TOILET 1300 X 2050 BALCONY 2250 X 1000 BALCONY 850 X 1330

Top View

Perspective View

Aerial View

Perspective View

Cluster View

Isometric View

HULHUMALE

The island located in South of North Male Atoll
Maldives was reclaimed to establish a new land mass required to meet the existing and future housing, industrial and commercial development demands of Male Region.

SITE LOCATION : Site is located at latitude 04 degree N , longitude 73 degree 28 E.

SITE DESCRIPTION : The whole site comprises of four sites which are linearly aligned with road approaching from front and rear side of the site. Frontside space of ground and first floors are for commercial use while rear ground floor area is double height stilt parking. Second to tenth floor are for residential purposes.

Perspective View

Aerial View

Cluster View

Isometric View

DRAWING /DINING AREA 3550 X 4800 KITCHEN 3350 X 1600 BEDROOM 1 4300 X 3250 TOILET 1400 X 2250 BEDROOM 2 3300 X 3050 BEDROOM 3 3300 X 3100 TOILET 1300 X 2050 BALCONY 1 2250 X 1000 BALCONY 2
850 X 1330

TYPE : RESIDENTIAL

LOW COST HOUSING FOR URBAN POOR/SLUM REHABILITATION

AT TIKRI KALAN,DELHI

CLIENT:DELHI STATE INDUSTRIAL & INFRASTRUCTURE DEVELOPMENT CORPORATION, WAZIRPUR, DELHI.
SITE AREA : 287964 sqm

CONNECTIVITY

Tikri Bus Stop -	Adjacent to site
Ghevra Railway Station -	2 km, NE
Fire Station Pashchim Vihar -	13.0 km, NW
Indira Gandhi International Airport -	19.2 km, SW
Mundka Metro Station -	2.5 km, E

PROJECT HIGHLIGHT

- 76 % open area with 14.78 % green area and Approx 1850 numbers of trees.
- Total 10 % site area is proposed for Public amenities like School, Facility centre, Livelihood centre, Informal market, Kiosk etc. which are as per development control norms.
- Treatment Plant proposed which will filter grey water and treated water can be utilized for Flushing purpose and Arboriculture.
- Shear wall Technology is proposed for

-Faster Completion of project to benefit users.
- Better Earthquake resistant structure.
- Higher carpet area for same built up area.
- Better Aesthetics as there are no column & beam Projections
- Better & Consistent Quality, Faster Construction, Less Labour intensive ,sprawling vegetation of 1850 trees.

Fire Station: Pashchim Vihar

Mundika Metro Station

IGI Airport

- Land use : Residential Zone
- Proposed Height = 14.95 m (G+4)
- Proposed Ground coverage : 24 %
- Proposed Green Area : 14.78 %
- Proposed Total number of Dwelling unit: 8420
- Proposed Dwelling Unit area = 34.20 sqm
- Proposed FAR : 1.22
- Approved cost of the project = 750 cr.

TYPE : : RESIDENTIAL

MANYAWAR SHRI KASHIRAMJI SHAHRI GARIB AWAS YOJNA,

AT LUCKNOW

CLIENT: U.P. GOVERNMENT AUTHORITY
DWELLING UNITS: 1504 / DISTRICT IN UNITS.

SITE PLAN

Mananiya Shri Kanshiram Ji Shahari Garib Awas Yojna was an affordable housing/EWS Housing with Frame Structure Technology having 1504 dwelling units in each district of Uttar Pradesh. The government of Uttar Pradesh visualized their idea of giving the own home to the Economically weaker section of the popularity. The central design of this project was made by us and was directly delived to the Local Development Authorities.
As of now, the development of this scheme is completed at Lucknow, Unnao, Faizabad, Ghaziabad and many other districts by different government agencies.

As it is a housing project for Economically Weaker Section people, several provisions were made in order to meet the various needs of the residents:

•The provision of living room was done in such a way that it could be utilized as a bed room in night.
• The provision of toilets was done in such a way that all the members of of a family could use it without any disturbance.
•The kitchen was left open and the balcony was provisioned jointly with the living room so that the living room looks spacious.
• The measurement of rooms, doors & windows have been done in such a way to utilize the maximum limited space.
• The design of blocks was done in a compact manner to reduce the cost of land & development.
• The boundary walls have been shared within row houses in order to save extra cost.
• All the units were earthquake resistant.
• The parks & open area were provisioned which could be utilized by social organizations for various training & development camps to make the society self dependent.

TYPE : RESIDENTIAL

SULABH & SAHAJ AWAS YOJNA

AT LUCKNOW

CLIENT: LUCKNOW DEVLOPMENT AUTHORITY
BUILT-UP AREA: 305760 SQ.MT., DWELLING UNITS : 8736.

Sulabh & Sahaj Awas Yojna at various Locations in Lucknow:

This was an affordable housing with Rapid Monolithic Construction Technology having 8736 units at various locations in Lucknow. Due to the use of this technology, a large numbers of units i.e. closed to approx 9000 were constructed and delivered only in the time of 2.5 years. This project made the dream come true of having a own house in the capital of Uttar Pradesh for Urban/ Lower Middle Class. The project gave a new shape & idea to the affordable housing sector for future prospects.

Special Features:

The strong sense of community is derived from the compact clustering and hetrogeneity of the building Grassy common space and hard surfaced public spaces were integrated into the scheme.
The architecture strikes a subtle balance between contextual and technical appropriateness on one hand, and on the other, modern standards for space organization, amenities and services comfort of the residents. This balance rests on right choice of simple durable materials and their explicit detailing. Functionally Rapid monolithic construction technology, helped in optimum use of building in sense of strength, earthquake resistance, maintenance free, maximum carpet area & any more factors.

TYPE : : RESIDENTIAL

GROUP HOUSING & COMMUNITY CENTER
FOR CENTRAL BUREAU OF INVESTIGATION
AT LUCKNOW

CLIENT: NBCC (INDIA) LIMITED.
LOCATION: Gomti Nagar & Jankipuram
BUILT- UP AREA:11485.46 SQ.MT

Multistoried Group Housing on Jankipuram (sec-j) of TYPE-II (2bhk)G+5, TYPE-III (2bhk)G+4 and TYPE-IV (2bhk+study)G+3

TYPE=IV (G+3)
UNIT AREA – 869.7SQFT.
SUPER AREA – 975.2SQFT

TYPE=III (G+4)
UNIT AREA – 585.5SQFT.
SUPER AREA – 693.91SQFT.

TYPE=II (G+5)
UNIT AREA – 481.36SQFT.
SUPER AREA – 574.8SQFT

Group Housing at sec-5 Jankipuram and Gomti Nagar Lucknow, UP .

Quarters for Central Bureau of Investigation Officers based on frame structure.

1. A large well landscaped open area to ensure a healthy and peaceful living.
2. Club house with facilities (Marriage hall ,badminton court, kitchen with store, guest rooms and dormitory).
3. Earthquake resistant G+5 R.C.C. frame structure.
4. 2 nos. of passenger lifts (1 for the fire lift) .
5. Automatic lift with power backup..
6. 24 hours (100%) power backup and water supply.
7. Separate entries for all tower as well as bungalows.
8. Construction by trust worthy ISO construction company.
9. Provision of fire fighting and fire alarm system.

TYPE : RESIDENTIAL

SAMAJWADI AWAS YOJNA

AT MADUBAN BAPUDHAM

GHAZIABAD

CLIENT : Ghaziabad Development Authority
BUILT - UP : AREA - 30385 SQ.M.

Ghaziabad Development authority has come with its new settlement GDA Madhuban Bapudham Housing Scheme.This scheme already has 2 BHK , 3 BHK and 3 BHK+Study type of dwelling units under GH-2, GH-3 and GH-4. The Authority has come a long way in providing services and developing the infrastructure and development schemes.

Affordable housing scheme has been launched to meet the rising need of accommodation for all sectors of society. It focuses mainly on lower income group (LIG)and middle income group (MIG). Its prime motive is to enhance and provide quality life to every strata of society.

Under affordable housing scheme, Samajwadi Awas Yojna is launched.

Implementing of such a project requires high degree of social and financial responsibilities and can be completed by adopting "best practices" in Building design and Construction. In the field of planning i.e. optimum utilization of land with open spaces, effective planning of indoor spaces, natural lighting, natural ventilation.

Proposed site is located in Pocket - F of Madhuban bapudham yojna with 30 m wide road along its two sides and other housing schemes along the other sides.

ARIEL VIEW

ON SITE CONSTRUCTION PHOTOGRAPHS

UNIT DESIGN

Considering the size of the family, which is usually 6-7 people per family, 2 bedroom set with adequate living area was designed after analyzing and understanding the need of the living of lower income group of the society.

A set of 8 units on each floor with each unit size of 56 sqm is designed in such a way that it provides adequate natural light and proper ventilation to the living residents.

Best utilization of spaces and leaving no space for negative areas has been the key motive while designing the unit.Large living area is provided centrally in the unit, with proper connectivity to the bedrooms and kitchen.

Balconies and openings are designed.

TYPE : RESIDENTIAL

MADUBAN BAPUDHAM YOJNA

GROUP HOUSING - 2, 3 & 4

GHAZIABAD

CLIENT : Ghaziabad Development Authority
BUILT - UP AREA :
GH-2 - 125618 SQ.M.
GH-3 - 119003 SQ.M.
GH-4 - 84380 SQ.M.

Strategically located in Madhuban Bapudham Scheme, Ghaziabad on a 45m road with a 18m wide service road. This beautiful abode offers a life in blissful harmony with nature.

This resedential sceheme comes in the choice of 2bhk, 3 bhk and 3 bhk+ study.

It features all states of the art facilities enhancing the life style that is notch above the rest. Central big green space which provides living among green environment.

Balconies and opening for each resedential unit opens to either central green space or outside to 45m wide road attached with green belt and service road.

Adequate parking space is given for visitors as well and covered parking has been provided through surface, stilt and basement.

The objective of this project is to provide a high quality resedential life style at affordable rates to different strata of the society.

GH - 3 & GH - 4 SITE PLAN

GH - 2 SITE PLAN

TYPE : RESIDENTIAL

STYLUS APARTMENT AT PLUMERIA

AT LUCKNOW

CLIENT: ANDES Town Planners Pvt. Ltd.
BUILT- UP AREA: 12941.23 SQ.M.

One of the big, multistoried and luxurious apartment in Lucknow situated at Vibhuti khand, Gomti nagar. It is 3 BHK & 4 BHK apartment with 28 dwelling units of each type. The construction is based on frame work. The site area is 73018.74 sq. mt. with built up area of 12941.23 sq.mt. The provision of an indoor game room, meditation room, all purpose hall, 2 guest rooms with attached toilets and a convenience hall has been done.

The elevation of the building depicts traditional architecture.

VIEWS

TYPE : RESIDENTIAL

CONSTRUCTION OF 938 NOS. FAMILY QUARTERS

AT AMETHI, U.P.

CLIENT: CENTRAL PUBLIC WORKS DEPARTMENT
SITE AREA : 37.7 ACRES
ESTIMATED COST : 128.01 Cr.

The site is proposed by Central Public Works Department to provide housing facility for CRPF and will have provision of basic infrastructure services like roads, sanitation, water suppluy and power supply.

Residential quarters are of two type

1. Type II = 900
2. Type III = 38

CLUSTER AREA

Type II : 292.09 sqm

Type III : 339.6 sqm

This project aims and proposes three star rating for GREHA.

Monolithic Concrete Construction Technology, using Aluminium form work is proposed for the quarters.

- Joint free construction with great surface finish.
- Fasten the speed of construction
- Earthquake resistant structure
- High carpet area for same built up area
- Less intensive labour, better & consistent Quality.

Heat reflecting paints have been applied at external walls to avoid heat gain.

Maximum natural ventilation is intentionally provided to each building. Each building has open area arrangements on opposite sides of the apartment. This arrangement will encourage cross ventilations through the blocks reducing the necessity for air conditioning.

Uniflow movement is there on site.There will not be any obstruction of a view, scenic amenity or landscapes since such factors had been taken into consideration while formulating the project design concept.

TYPE : RESIDENTIAL

CONSTRUCTION OF EWS HOUSES UNDER AFFORDABLE HOUSING SCHEME OF PRADHAN MANTRI AWAS YOJNA- HOUSING FOR ALL (URBAN)

CLIENT: WAPCOS
TOTAL LAND AREA: 76178.64 SQ.M.
BUILT UP AREA : 61518.44 SQ.M.

PRADHAN MANTRI AWAS YOJNA

Hon'ble Prime Minister envisioned Housing for All by 2022 when the Nation completes 75 years of its Independence. The mission seeks to address the housing requirement of urban poor including slum dwellers through following programme verticals:

1.Slum rehabilitation of Slum Dwellers with participation of private developers using land as a resource

2. Promotion of Affordable Housing for weaker section through credit linked subsidy

3. Affordable Housing in Partnership with Public & Private sectors

4. Subsidy for beneficiary-led individual house construction /enhancement.

SITE

The site is located near D.M. House, Rampur road Rudrapur, District Uttrakhand on a total land area of 7.6 hectares.

Site comprises of:-

1. No. of dwelling units = 1872,
2. Community center,
3. Local shopping complex,

SITE AREA	76178.64 SQM (7.6 HECTARES)
UNITS	1872
TOTAL BUIT UP AREA	61518.44 SQM.
FAR	1.16
GROUND COVERAGE	16,033.6 SQM.

SITE PHOTOGRAPHS

TYPE : RESIDENTIAL

AMBEDKARPURAM

KANPUR, U.P.

CLIENT: AWAS AVEM VIKAS
SITE AREA: 14,105 SQ.M
TOTAL BUILT UP AREA: 42777.62 SQ.M
PROJECT COST: 85 CR.

PROJECT: PRPOSED GROUP HOUSING FOR AMBEDKARPURAM YOJANA, KANPUR

GATE VIEW

CLUB VIEW 1

CLUB VIEW 2

POOL VIEW

GREEN AREA

GREEN AREA

TYPE : RESIDENTIAL

GUEST HOUSE AT LDA CAMPUS

LUCKNOW

CLIENT: LUCKNOW DEVELOPMENT AUTHORITY
SITE AREA : ..997.64 SQ.M.
TOTAL BUILT-UP AREA : 985 SQ.M.

TYPE : TOWNSHIP

INTEGRATED TOWNSHIP

AT RAIBAREILLY ROAD

LUCKNOW

CLIENT : ANDES TOWN PLANNERS PVT. LTD.
LAND AREA : 141.45 Acres.

The Andes Town Planner site is located in Lucknow - Raebarely Road (NH-24B), south of Lucknow , Capital of Uttar Pradesh , the largest State of India .

INTRODUCTION

The government of Uttar Pradesh had formulated a policy for Land assembly and Infrastructure Development or Integrated Township through Private Developers in urban areas of Uttar Pradesh, vide Govt Order No. 2711/8-1-05-34 vivid/03- dated 21st May 2005. Government has further issued instruction for development of Integrated Township vide G.O. NO. 520/8-3-14-37 vivid/13 date 4th March 2014.

Lucknow Development Authority invited application from Registered Companies, Registered Ownership / Partnership Firm, Sole Proprietor or Consortium of companies for registration as Private Developer to develop the Integrated Housing Scheme.

The objective of the scheme as mentioned in the government orders are:

- The Government to work as "Facilitator".
- To produce competitive marketable Township within attractive environment for high quality living, work and recreation.
- To facilitate and create an enabling environment for attracting maximum private investment in housing and infrastructure development.
- To support and enable private investment in others sector of the State Economy.

Andes Town Planner Private Limited (duly registered under the Company Law) had applied for license for Integrated Township under Development License Model in village Purseni, tehsil – Mohanlal Ganj of Lucknow Planning Area .The Lucknow Development Authority had issued license vide letter no. 45/VC/EE/HTIG/2015 dated 07/07/2015 for Integrated Township for 139.48 acres of land.

In accordance to the objective of Schemes Andes Town Planner Private Limited hereby submit the Detailed Project Report of land for development of Integrated Township.

PRINCIPLES

The urban design principles of connectivity and density have guided the project's overall design scheme. The scheme is planned along a 30.0 meter wide central spine road and various spaces are segregated based on their usages and functionally .These spaces, both public and private in nature, build capacity for healthy ad lively ease of access to all part of the site. Externally , the plan provides strategic access to the site.

Density is crucial when planning communities of the future because urban-like places require a critical mass of people to successfully support a vibrant residential zone and dynamic commercial activities. The master plan recommends medium to high density within various Groups Housing pockets, keeping - in view the urban design and urban space. The Group Housing cluster has been planned on sides of the spine road with variable height but well within the permissible F.A.R.

CONCEPT AND DESIGN

The layout design of New envision a vibrant community of mixed uses with active recreation and entertainment. The design provides the segregation of various activities. The town is planned along the main 30m wide spine road defining different activities and spaces on either side. The focal point of the township has a shopping arcade with grid pattern roads leading to plotted development, with adequate green spaces. The basic amenities and functional requirement are so located so as to provide easy access from residential areas. The low income housing (EWS & LIG) unit represent 20% of the total residential areas with a market complex and school in close proximity. The township is so designed to have barrier free access from one place to another, with a feeling of security in the community. Accessibility to spaces has also been considered for Physically-challenged and senior citizens in appreciating the residential community by providing necessary architecture treatment as prescribed by law.

The location and orientation of the building may influence the amount of artificial light required , the potential solar heat gain and the ability to use natural ventilation and other factor have been taken into consideration the principles design.

Entrance gate is provided with an idea to provide security and a guarded access to the township and also to provide an identity to the Scheme . The gate is not only for security control but also to have the Public convenience for the persons coming to the Township.

The infrastructure service for this project have been designed keeping in mind the future growth of the Scheme. The density of population for designing the services has been taken as medium density as per the approved Master plan 2021.

The brief about the infrastructure is detailed as follows :-

S.NO.	Group	Width(m)
A	Central Spine Roads	30.0 m
B	Arterial Roads	24.0m/18.0m
C	Principal Roads	12.0m
D	Residential Roads	9.0m

VIEWS

TYPE : TOWNSHIP

INTEGRATED TOWNSHIP

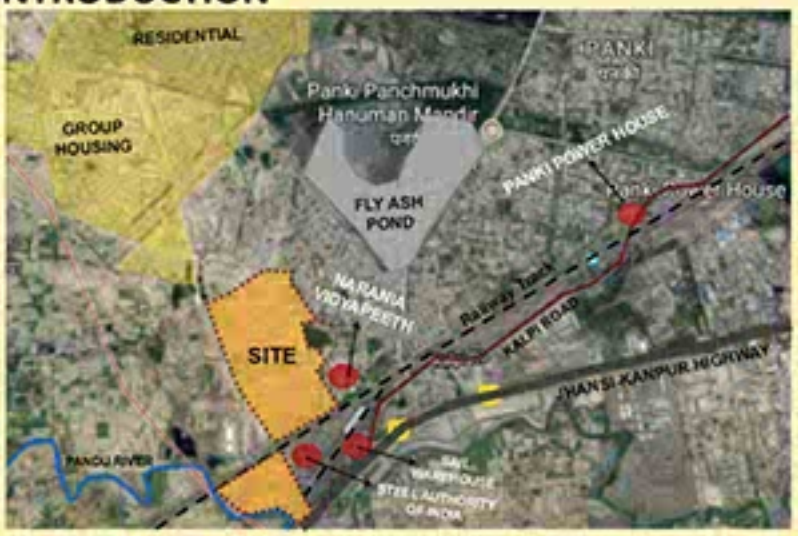
AT MAHAVIR NAGAR

KANPUR

CLIENT : KANPUR DEVELOPMENT AUTHORITY
LAND AREA : 166.06 Acres.

The Integrated Township site is located in Mahavir Nagar, Kanpur , Uttar Pradesh , the largest State of India. Delhi- Howrah railway line is running parallel to site.

INTRODUCTION



It is situated on National Highway No. 2 on the Delhi-Agra-Allahabad-Calcutta route and on National Highway No. 25 on the Lucknow-Jhansi-Shivpuri route.
Presently civilian air-service to Delhi is available for the city at Ahirwan.
It being located in the industrial estate in Panki, kanpur would become home to a large number people who have migrated to the city for jobs.
Power house is located nearby the site and the area surround the site is under residential development and is premerely an industrial area with many small, mini and micro industries located nearby the site.
Pandu River flows close to the site.

Location	Site is located nearby at Mahavir Nagar, **Delhi- Howrah Railway Trunk Line.**
Approach Road	**Approach by 45 Mt. wide main Road.**
Site Area	166.06 Acres.
Available Built Up area	166.06 Acres.
Features	EWS, LIG, MIG - 1,MIG - 2 Housing; Commercial Layouts; Green Areas; Educational facility; Health facility; Social and Cultural facility; others.
EWS Units(Under PMAY)	A total of 5040 units over an area of 28.90 Acre (with a density of 444.83 units per hectare)
Floor	EWS : G+3, Plots for LIG, MIG and HIG

LAND USES

Land Use Distribution					
Site Area		672033.05		SQM	
		166.06		Acres	
		Proposal			
	Land Use	Sqm	Acre	Percentage	
1	Green	101646.73	24.97	15.04	%
2	Commercial	65986.95	15.92	9.22	%
3	Community Facilities	67307.25	16.63	10.02	%
4	Mix Use	33987.63	8.40	5.06	%
5	Residential	260990.21	60.54	36.46	%
6	Roads	162754.80	40.21	24.21	%
	Total	672033.05	166.06	100.00	%
	Usable Area			60.79	

Total area of the site which needed to be developed for Integrated Township is 166.06 Acres.
Township has been proposed for 45,000 people.
Under PMAY 5040 units for EWS are to be proposed in the scheme area.
The proposal of Integrated Township has been made for the following reasons:
- To Cross-Subsidize EWS by providing LIG, MIG-1,MIG-2 , Mixuse & Commercial plots.
- To provide Sense of Togetherness to the EWS.

Integrated Township will help in holistic development of the area.

TYPE : TOWNSHIP

INTEGRATED TOWNSHIP

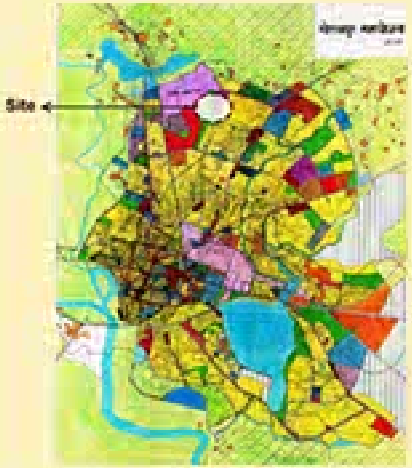
AT RAPTINAGAR EXTENSION

GORAKHPUR, U.P.

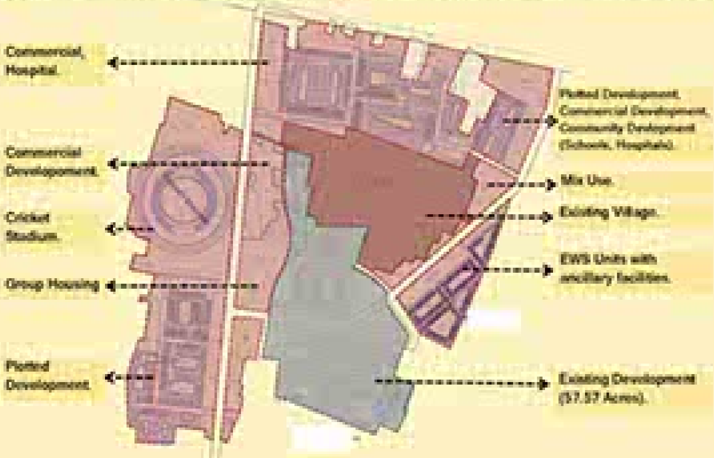
CLIENT : GORAKHPUR DEVELOPMENT AUTHORITY
LAND AREA : 206.40 Acres.

The Integrated Township site is located in Gram- Manbela , Raptinagar Extension , Gorakhpur , Uttar Pradesh , the largest State of India .

INTRODUCTION



Gorakhpur has seen a steep rise in the population as people from Nepal have migrated to the city in search of employment.
Industries in Gorakhpur have also attracted people from nearby places in search of Employment.
This scheme would make up for the huge need of accomodation to a large extent.



LAND USES

Cricket Stadium has been proposed of 50,000 seating, Firstly there is no Cricket Satdium in the city and Secondly, it will increase the value of land of nearby Residential sites.

	Landuse Distribution					
	Site Area			83.57		Ha.
	[illegible]			206.40		Acres
	Area under Stadium			14.56		Ha.
	[illegible]			35.97		Acres
	Net Site Area			68.97		Ha.
	[illegible]			170.41		Acres
			Proposal			
	Land Use		Sqm	Acre	Percentage	
1	Green		[illegible]	25.85	15.05	%
2	Commercial		[illegible]	15.40	9.04	%
3	Community Facilities		[illegible]	16.49	[illegible]	%
4	Mix Use		[illegible]	14.86	8.59	%
5	Residential		[illegible]	57.81	[illegible]	%
6	Roads		[illegible]	38.58	22.64	%
	Total		689704.65	170.43	100.00	%

Site has an existing village and an existing layout developed comprising of 57.57 Acres (23.29 Ha).The new development area is 148.83 Acres (60.23 Ha).Township has been proposed for 35,000 people.Under PMAY 1500 units for EWS are to be proposed in the scheme area.The proposal of Integrated Township has been made for the following reasons:
To Cross-Subsidize EWS by providing LIG, MIG-1,MIG-2 , Mixuse & Commercial plots.
To provide Sense of Togetherness to the EWS.
Integrated Township will help in holistic development of the area.

TYPE : TOWNSHIP

INTEGRATED TOWNSHIP

AT BHAGIRATHI & JANVI,

KANPUR

CLIENT : KANPUR DEVELOPMENT AUTHORITY
LAND AREA : 74.95 Acres.

The Integrated Township site is located in Bhagirathi & Janvi, Kanpur - Allahabad Highway, Kanpur , Uttar Pradesh , the largest State of India.

INTRODUCTION

Kanpur has seen a steep rise in the population as people from nearby places have migrated to the city in search of employment.
The need for mass housing is must where people can find affordable housing.
This scheme would make up for the huge need of accomodation to a large extent.
It being located in the industrial estate in Panki, kanpur would become home to a large number people who have migrated to the city for jobs.

Location	Site is located nearby at Rooma,adjacent to **Kanpur-Allahabad Highway.**
Approach Road	**Approach by 45 Mt. wide National Highway.**
Site Area	74.43 Acres.
Features	EWS, LIG, MIG - 1,MIG - 2 Housing; Commercial Layouts; Green Areas; Educational facility; Health Facility; Social and Cultural facility; others.
EWS Units(Under PMAY)	A total of 2208 units over an area of 14.08 Acre (with a density of 387.57 units per hectare)
Floor	EWS : G+3, Plots for LIG, MIG and HIG

LAND USES

LandUse Distribution						
	Site Area		301214.27		SQM	
			74.43		Acres	
			Proposal			
	Land Use		Sqm	Acre	Percentage	
1	Green		48266.91	11.93	16.02	%
2	Commercial		29715.06	7.34	9.87	%
3	Community Facilities		30335.33	7.50	10.07	%
4	Mix Use		17074.22	4.22	5.67	%
5	Residential		97197.40	24.02	32.27	%
6	Roads		78625.3508	19.43	26.10	%
	Total		301214.27	74.43	100.00	%

Total area of the site which needed to be developed for Integrated Township is 74.95 Acres.
Township has been proposed for 19,500 people.
Under PMAY 2208 units for EWS are to be proposed in the scheme area.
Kanpur Institute of Technology, Allenhouse school & Colleges are located nearby Site.
Industrial area on the South and West side of the site.
Site is surrounded by majorly Residential and Industrial area.

TYPE : TOWNSHIP

INTEGRATED TOWNSHIP

AT SAKARPUR ,

KANPUR

CLIENT : KANPUR DEVELOPMENT AUTHORITY
LAND AREA : 103.3 Acres.

The Integrated Township site is located in Sakarpur, Near Kanpur- Jhansi Highway, Kanpur , Uttar Pradesh , the largest State of India.

INTRODUCTION

Two major roads are passing by the site and one major road along the South of the SIte which will serve as major access to the site.
220kv Substation is located near the site and the area surround the site is under residential development.
Two drains are running along the site.
Township has been proposed for 21,366 people.
Under PMAY 2208 units for EWS are to be proposed in the scheme area.

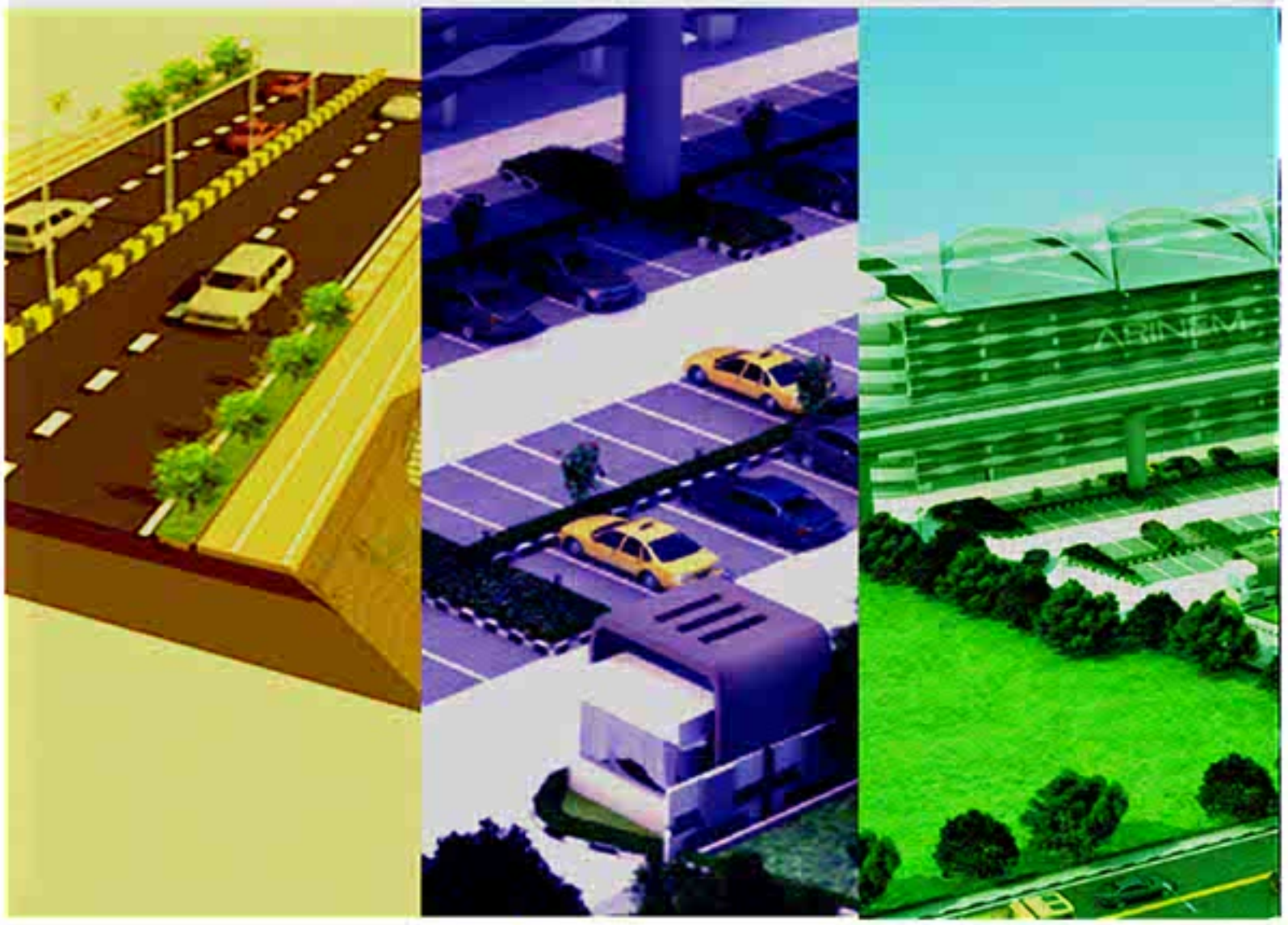
LAND USES

Location	Site is located nearby at Sakarpur, near **Kanpur - Jhansi Highway.**
Approach Road	**Approach by 30 Mt. wide main Road.**
Site Area	107.30 Acres.
Features	EWS, LIG, MIG - 1,MIG - 2 Housing; Commercial Layouts; Green Areas; Educational facility; Health Facility; Social and Cultural facility; others.
EWS Units(Under PMAY)	A total of 2208 units over an area of 13.99 Acre (with a density of 390.10 units per hectare)
Floor	EWS : G+3, Plots for LIG, MIG and HIG

LandUse Distribution						
	Site Area		434219.9512		SQM	
			107.30		Acres	
			Proposal			
	Land Use		Sqm	Acre	Percentage	
1	Green		65248.07	16.12	15.03	%
2	Commercial		40273.0654	9.95	9.27	%
3	Community Facilities		46127.9129	11.40	10.62	%
4	Mix Use		19545.7281	4.83	4.50	%
5	Residential		157632.90	38.95	36.30	%
6	Roads		105392.2807	26.04	24.27	%
	total		434219.95	107.30	100.00	%

Total area of the site which needed to be developed for Integrated Township is 74.95 Acres.
Township has been proposed for 19,500 people.
Under PMAY 2208 units for EWS are to be proposed in the scheme area.
Kanpur Institute of Technology, Allenhouse school & Colleges are located nearby Site.
Industrial area on the South and West side of the site.
Site is surrounded by majorly Residential and Industrial area.

INFRASTRUCTURE PROJECTS



TYPE : INFRASTRUCTURAL

MULTILEVEL CAR PARKING
AT VAISHALI METRO STATION, GHAZIABAD

CLIENT: GHAZIABAD DEVELOPMENT AUTHORITY
SITE AREA : 7120 sqm
GROUND COVERAGE: 3557.44 sqm.
BUILT- UP AREA: 19510.38 sqm.

CLIENT

Ghaziabad Development Authority is created under Urban Planning and Development Act, 1973.

Vaishali metro station forms a part of **'Blue Line'** of the Delhi Metro in Trans Hindon area of Delhi. It serves **Vaishali, Indirapuram, Vasundhara** and other nearby areas of **Ghaziabad. Highest footfall recorded on blue line, Dwarka sec- 21 to Noida/Vaishali, as on August 2015- 10 Lakh commuters.**

SITE

SITE PHOTOGRAPHS (EXTERIOR)

Front View

View through metro line

SITE PHOTOGRAPHS (INTERIOR)

Circular twin columns in parking area

Spinkler system installed for fire safety

Semi circular ramp

S.S. railing

MULTILEVEL PARKING SYSTEM

Multilevel car park is essentially **'stacked'** car parking.

- Car being parked on roads causes traffic **congestion**.
- **Land is valuable** in all urban area.
- Parking places **occupy large portions** of such land.

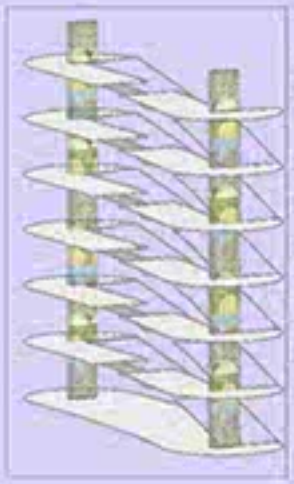
The major purpose of making developing **multilevel car parking** is listed as follows:

- Optimal **utilization of space.**
- **Lower maintenance** and operation cost.
- **Lower construction cost.**
- Secure and **environment- friendly** nature.
- **Comfortable** for the drivers.

ARCHITECTURAL FEATURES

- Uni-directional Vehicular movement.
- Modern Elevation
- All state of art facilities like lifts, staircases, toilets etc.
- Parking sensors
- Solar panels

STRUCTURAL FEATURES



- Flat slab with drop panel to speed up the construction process and also to ease services layout.
- Column placement which enhances parking capacity and ease out vehicular movement.
- Circular twin columns proposed to facilitate the vehicular movement and reduce chances of damages to corners.
- Concrete semi circular ramps to promote unidirectional movement and efficient turning of the vehicle.
- Concrete parapet walls as a safety barrier.

NOTABLE FEATURES

- Guidance display to indicate free parking space to drivers.
- No more searching for the parking space.

Purpose:

- Raise utilization ratio of parking space.
- Improve parking space

- Facilitate parking process for drivers.
- Ultrasonic detectors installed to indicate the real-time occupancy.
- A red & green LED lamp to indicate occupancy of the lot.
- Management software to visualize the entire parking lot.

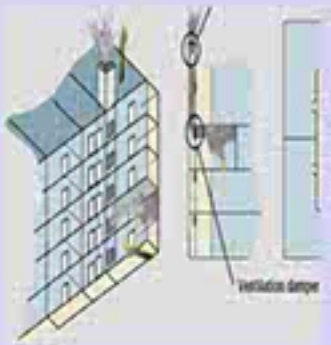
SOLAR PANELS

A 25 KWp Grid Tie & 15 KWp. Hybrid roof top Solar PV power plant is proposed for the multi-level car parking .

MECHANICAL VENTILATION SYSTEM

Mechanical ventilation system provided in basement parking to achieve three main objectives:

- To effectively remove the exhaust gases produced by vehicles
- To replace all pockets of stagnant air
- In case of fire, to assist the Fire Service in clearing the smoke from the car park.



TYPE : INFRASTRUCTURAL

KANHA UPVAN (STRAY ANIMAL SHELTER)

AT KANPUR ROAD, LUCKNOW

CLIENT: CENTRAL PUBLIC WORKS DEPARTMENT
SITE AREA : 17296.01 SQM.
BUILT UP AREA: 72729.47 SQM.

Kanha Upvan (Stray Animal Shelter) at Amousi, Kanpur Road, Lucknow

The dream project of Lucknow Municipal Corporation was conceptualised way back in 2007 (the foundation stone was laid on September 15, 2007). The project was initiated in 2009, This project was dedicated as a shelter house specially meant to house the unwanted four legged residents of the city, Lucknow. Situated near Amousi Industrial Area, the facility spreads over an area of around 120 hectare. The Upvan was divided into five sections -- Shri Krishna Gaushala for stray cattle, Hanuman Vatika for monkeys, Bhairo Charan Kunj for stray dogs, Nandi Shala for stray bulls and Radha Sarovar for birds. Besides this, a veterinary hospital named after Buddha's earlier name, Siddhartha was also the key highlight of this project. The project attained much significance for a city witnessing recurrent reports of stray animals attacking commuters and creating traffic bottlenecks.

TYPE : INFRASTRUCTURAL

G.H.CANAL

AT LUCKNOW

CLIENT: LUCKNOW MUNICIPAL CORPORATION

G H CANAL

Drainage and sewerage system in urban areas is an important priority in Indian setting because of rapid urbanization, industrialization, and population growth, along with increase in slum population and migration. Open Drainage and sewerage are major problem whenever question arises over sanitation and cleanliness of a city. Sewer systems run through the city at the back of every house which are neglected, filthy and unpleasant corners. This untreated and unhygienic areas are also cause of many water borne diseases like diarrhea, cholera, Malaria etc and its vicinity to habitable areas acts as a catalyst. As initiative for clean and green Lucknow, Lucknow Municipal corporation decided to take the issue to transform these areas in more useful and active areas. Initially 700 m long stretch of G H Canal(open drainage and sewerage system running through center of Lucknow) was considered and we were appointed as consultant for the redevelopment of this stretch. Taking this challenge better and innovative ways to transform these neglected areas into more pleasant space, we came across few very interesting facts during research and survey of the stretch. As they were touching almost all habitable parts, redevelopment of these areas into green belt will give a new green artillery to city which touches almost all the corners of the city. As these drains were following natural slope of city and was passing through backyard of almost each house, a new proposal was proposed for water supply system, which will take the shortest route, will connect to each house and will function on gravity following the slope avoiding pumping or any other external force. As these were natural drains once and followed gravity and natural slope, at few places they were also the shortest connections between the parts of the city. Shortest Connection was the idea which became base for the Redevelopment of G H Canal and a 9M wide road was proposed to be built over the drain.

over the drain. The road covered the drain and as well was a major boost in city infrastructure as it efficiently connected many parts of the city which did not have any roads and were connected through narrow lanes.
The side areas of canal were beautifully landscaped with plants and trees which suppresses the foul smell and pathway connections with services. Once the neglected backyards were now turned into celebrated space with lot of public activities which helped in development of overall area. Observing the success of this Redevelopment Project Lucknow Municipal corporation has decided for the makeover of full stretch of G H Canal and also looking for possibilities for other open drains.

TYPE : INFRASTRUCTURAL

TRAFFIC PARK

AT INDRALOK COLONY

KANPUR ROAD,LUCKNOW

CLIENT: Lucknow Nagar Nigam, T. N. Road, Lalbagh, Lucknow

Upgradation of Traffic Park at Indrapuri Colony at Kanpur Road, Lucknow

This is one of the major project of Lucknow Nagar Nigam. The purpose of this park is meant to impart knowledge about traffic rules to school-going children and local citizens. Spanning over one and a half acres, the park consists of common traffic signals put up along the walking tracks along with zebra crossings and a few traffic lights. The park is being upgraded with the features like two wheeler vehicle simulator, four wheeler vehicle simulator & automated track system to provide a new definition to the special kind of training being provided here.

TYPE : INFRASTRUCTURAL

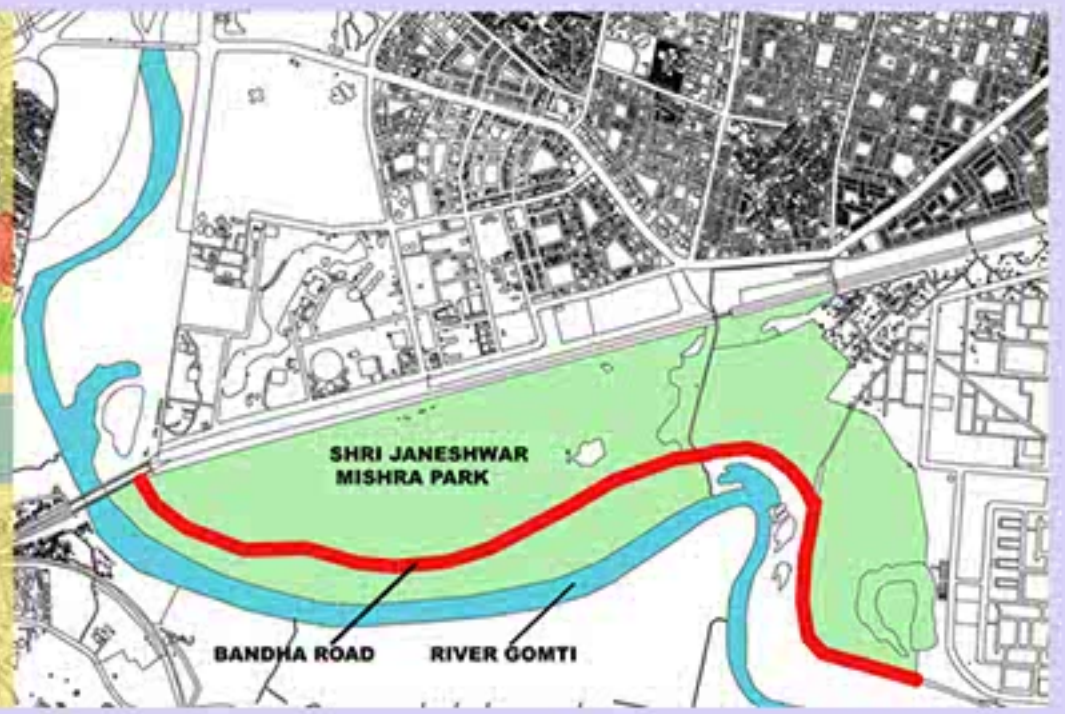
BANDHA ROAD

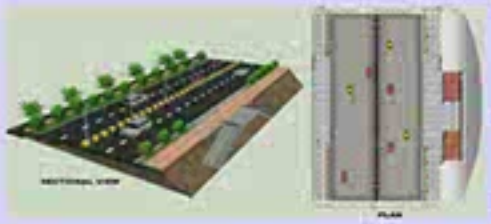
LUCKNOW

CLIENT : LUCKNOW DEVELOPMENT AUTHORITY
LENGTH : 5.8 KMS

Lenght of bandha road along the park is 5.847 kms

Min. Width of Bandha Road	14.2 m
Max. Width of Bandha Road	28.2 m
overall average width of bandha road	21.0 m





SITE PHOTOGRAPHS

TYPE : INFRASTRUCTURE PROJECTS

BUS TERMINAL WITH INTERSTATE CHANGE (ISBT) HOTEL AND PARIJAT GROUP HOUSING AT VIKRANT KHAND (FAIZABAD ROAD)

AT LUCKNOW

CLIENT: LUCKNOW DEVELOPMENT AUTHORITY
BUILT-UP-AREA: 72629.29 SQ.M.

ABOUT THE PROJECT

BUS TERMINAL WITH INTER STATE CHANGE (ISBT)WITH COMMERCIAL SPACES, HOTEL AND PARIJAT GROUP HOUSING AT VIKRANT KHAND,GOMTI NAGAR,LUCKNOW

A Bus Terminal with interstate change including commercial spaces, hotel and Parijat Group Housing is an attempt to improve the existing transportation of the city , through its strategic location and planning of activities.

COMPONENTS

BUS TERMINAL

A public transport building which caters to the need of people. Also to match the demands of social infrastructure

BUDGET HOTEL

A budget hotel provides a space for short stay for the convict,business, transit passengers,etc. in an affordable price

HOUSING

Residences, a space to stay for longer duration. Deals with the increasing demands of housing.

LOCATION AND REQUIREMENT

ACTIVITY

The location is surrounded by commercial areas like Vibhuti Khand, educational areas and residential areas like Gomti Nagar etc. Thus, opportunity of business,educational and other passenger/travellers is generated and will cater through ISBT and budget hotel.

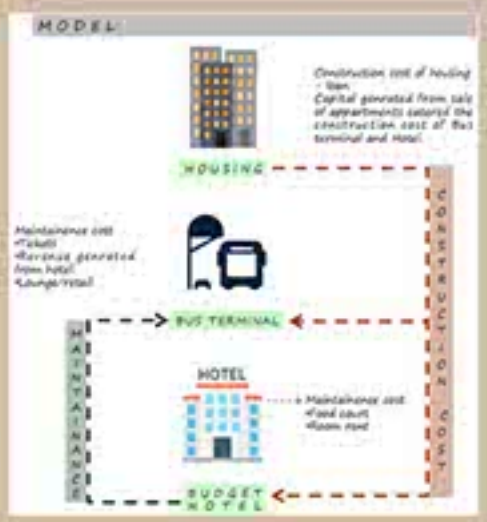
Location	Right hand junction going of NH31 Faizabad road and Upcoming Ring Road (Shaheed Path)
Approach Road	45 m wide road
Site Area	33433.45sqm
Available Built Up area	23796.913 SQM
Features	Separate Entrance and Exit for the hotel block space for service entry. No hindrance from the operation of the bus bank.
Floor	1 Basement + G+8 Stories
Parking	One basement (adequate parking)
Bus Bays	37 Bus Bays
Mandatory Facilities to be provided	350 rooms Budgetary Hotel with adequate conference and Restaurant facility.
Other Provisions	Food court , restaurant , kiosk , fine dine restaurant at top of hotel , conference and meeting rooms

GROUP HOUSING LOCATION : Vikrant Khand, Gomti nagar, Faizabad road, Lucknow Dwelling Units : 406	•Block A1, A2 and A3 39kk + study, S+20, No. of units=340 •Block B1: 3bhk + pent house, S+20, No. of units=13, penthouse=4 •Block B2: 3bhk + penthouse, s+09, No. of units=46, penthouse=4

LOCATION

The site is at junction of NH-31 (which connects eastern parts of UP) and Shaheed Path (connecting all major highways), strategically located to connect to other cities through outter ring without entering the center part of city. thus reducing traffic congestion/load at center

MODEL



BUS TERMINAL WITH INTER STATE CHANGE (ISBT) WITH COMMERCIAL SPACES,HOTEL AND PARIJAT GROUP HOUSING

ARINEM

MEDICAL FACILITY PROJECTS

TYPE : MEDICAL FACILITY

MOTHER AND CHILD STATE REFERRAL HOSPITAL, DR. RAM MANOHAR LOHIA INSTITUTE OF MEDICAL SCIENCES AT GOMTI NAGAR, LUCKNOW

CLIENT: U.P. HOUSING & DEVELOPMENT BOARD.
BUILT- UP- AREA: 15673.20 SQ.M.

GROUND LEVEL = 2960.589 SQM
ENTRY LEVEL = 2817.068 SQM
FIRST LEVEL = 2535.02 SQM
SECOND LEVEL = 2535.02 SQM
THIRD LEVEL = 2535.02 SQM
FOURTH LEVEL = 2040.78 SQM
TOTAL BUILT-UP AREA = 15423.50 SQM

LOCATION: At Gomtinagar Extension, facing Shahidpath, Lucknow , Uttar-Pradesh.

HIGHLIGHTS :

- OPD, Pharmacy & IPD with Higher Facilities In Maternity & Natal Care .
- SNCU & New-Born Care Unit,
- Separate Emergency Entry, separate examination room & ward for special cases.
- With 2 No. Modern OT's, One Emergency OT, One Minor OT , with all allied modern facilities.
-Full building was designed in a manner that full natural light is there in all interior areas during day time.
- Centralized AC.,Modern elevation with ACP & structural glazing,
- Provision Of Solar Water Heating .
- Other facilities like ATM , Canteen & sufficient parking space is also provided.
- 3 star rated electrical equipment & energy efficient external lights.

AREA DETAIL:

SITE AREA = 20240.41 (5 ACRES)

TYPE : MEDICAL FACILITY

100 BEDDED HOSPITAL

U.P.

CLIENT: U.P. HOUSING & DEVELOPMENT BOARD.
100 BEDDED HOSPITAL AT FIROZABAD: BUILT- UP AREA : 6400 SQ.M.
100 BEDDED HOSPITAL AT MAINPURI: BUILT- UP AREA : 6400 SQ.M.
100 BEDDED HOSPITAL AT GHAZIABAD: BUILT- UP AREA : 6047.50 SQ.M.

OBJECTIVE OF THE NEW MCH WING

The overarching objective in developing the new Mothers & Child Health care (MCH) wing is to improve the health and well being of children and mother in Ghaziabad. Development of the new Mothers & Child Health care (MCH) wing in the MMG District Hospital to provide the highest possible standard of treatment and care to children and mothers who require access to national tertiary and quaternary paediatric services. The development of the new Mothers & Child Health care (MCH) wing also affords the opportunity to implement Government policy to provide appropriate care and treatment as locally as possible.

SITE PHOTOGRAPHS (INTERIOR)






DESIGN INTENT

The new Mothers & Child Health care (MCH) wing is being developed to provide a state-of-the-art, Mothers and child - centred hospital, which will facilitate excellence in the delivery of clinical services, paediatric research. It will provide an environment that is fully supportive of children, young people and healthcare staff. The hospital is designed to comply with best practice and health guidelines, with maximum flexibility to facilitate future changes in service delivery.

VIEWS (EXTERIOR)

100 BEDDED HOSPITAL AT MAINPURI, U.P

100 BEDDED HOSPITAL AT FIROZABAD, U.P

THE HOSPITAL DESIGN TO HAVE THE FOLLOWING FACILITIES :-

1.OPD,IPD and Pharmacy
2.Obstetrics & Gynecology
3.Maternity
4.Pediatrics
5.New Born Care Unit
6.Operation theater and Minor O.T.
7.Pathology
8.Solar Water Heating

The site is located in the District Hospital campus in Ghaziabad, main district hospital in the city.It is designed to provide environments that are aesthetically pleasing; that welcome, comfort and celebrate the diversity of children, mother and families.

SITE PHOTOGRAPHS (EXTERIOR)






COMMERCIAL AND INDUSTRIAL PROJECTS

TYPE : COMMERCIAL

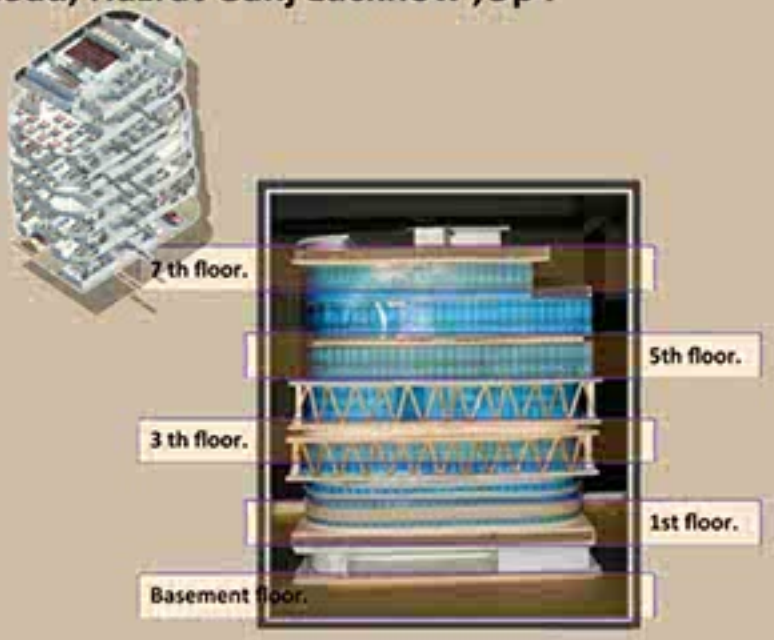
CBI OFFICE BUILDING AT-7
NAWAL KISHOR ROAD HAZRAT GANJ
LUCKNOW

CLIENT: NBCC (INDIA) LIMITED.
BUILT UP AREA: 11485.46 SQ.M.

Building has been based on Green Building Architecture. The project was awarded to us by National Buildings Construction Corporation Ltd. (NBCC), the office is situated at Nawal Kishore Road in the porsh location of Hazratganj. The building is based on Green Building Architecture which is our first Green Building Project. The old office building was demolished and the new building was designed with high-tech and ultramodern features.It has all state of art facilities with integration of securtites systems, fire safety majors and modular furnitures.

C.B.I. Office Building At 7 -Nawal Kishor Road, Hazrat Ganj Lucknow ,Up .

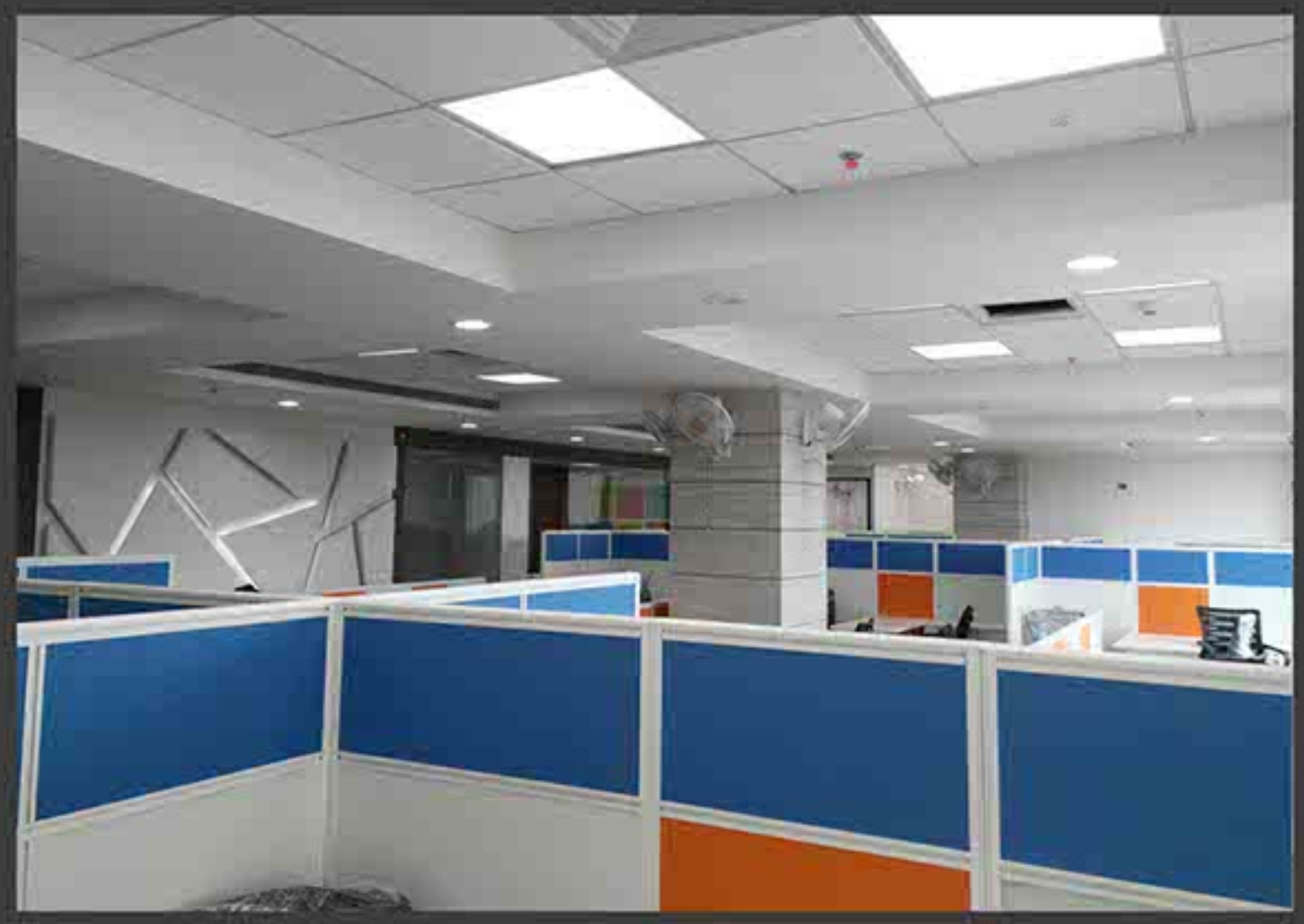
i). Situated at the center of the city, Hazrat Ganj, lucknow.
ii). Modern exterior as per the requirement of the office building.
iii). G+7 R.C.C. frame structure with basement.
iv). Earthquake resistant structure.
v). 2 nos. of cars lift for basement parking .
vi). 2 nos. of passenger lift provided for vertical circulation.
vii). 24 hours (100%) power backup.
viii). Provision of Mechanical multilevel parking at basement and site as well.
ix). Modular interior in furniture, false ceiling, partition of cabins and capsules.
x). Provision of fire fighting and fire alarm system.
xi). Provision of solar power backup.



TYPE : COMMERCIAL

INTERIOR OF BAJAJ ELECTRICALS OFFICE

AT SECTOR-66 , MOHALI

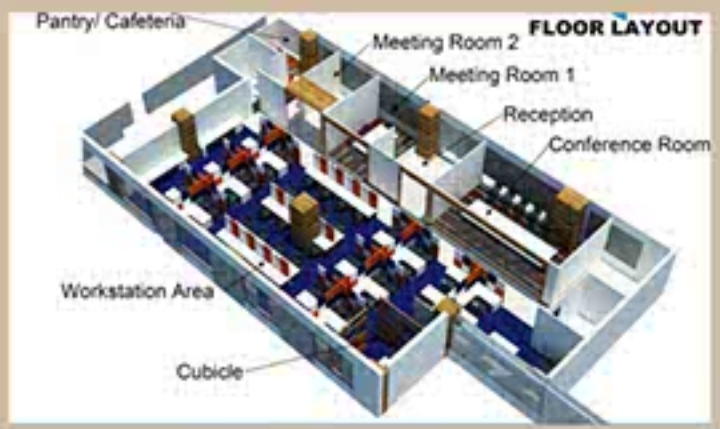


CLIENT: BAJAJ ELECTRICALS LTD.

This is the Corporate office of the Bajaj Electricals Ltd in Chandigarh. Located on Second Floor of the Bestech Tower in the Sector-66 , Mohali.

The floor plate area is 270 Sq.m. having the following spaces:

1. Workstations
2. Meeting Rooms
3. Cubicals
4. Conference Room
5. Pantry
6. Reception



TYPE : INDUSTRIAL

PTC INDUSTRIES

AT BANTHRA PLANT , LUCKNOW

CLIENT: PTC INDUSTRY
BUILT UP AREA: 14827.36 SQM.

PTC Industries started as a small scale industry in 1963 and has evolved into an internationally accalaimed foundry today. With a view to increase the production capacity, the new factory unit at Banthra was envisaged.

To ascertain a strong image on the international front, the client's brief desired a contemporary design of the factory unit, which is also self sustainable and promotes environment friendly measures.

CONTEXT

PTC's Clients are a long list of who's-who of the business world: Rolls Royce, Metso, Flowserve, Emerson Elecric and Siemens AG, with such big names, the Industry wanted a revamping of its existing unit into a world class industry to make it's presence felt on the global page.

THE CONCEPT

The factory project which is also a metallurgy plant is the inspiration behind the fluid form of the project.The building mass stands out on site and yet flows freely like molten metal ready to be casted in moulds.

THE CHALLENGE

Industries are conceived as PEB structures and are formally only made as conventional usage based structure but the challenge here was to make an industry but also make it stand out among its contempories on the worlds front. With that aim, the building was designed as a flowing form, the work spaces were distributed in a linear flow on site and given a unique elevation to denote the east wing, the west wing and the central office.

The design development gave way to building which is now an IGBC Platinum Rating Applicant.

CONSERVATION AND NATURAL RESOURCE

The foremost idea while designing the "Industry" building was to challenge the very notion of an industry going away from nature instead industry was design in harmony with surrounding terrain & environment & minimising depletion of natural resources. Steps towards conservation of natural soil, water, energy and resources was the core design driving force.

ENERGY CONSERVATION FACT SHEET

Project	Bullup area	Non-Green Building (kwh/month)	Green Building (projected energy consumption) (kwh/month)	%Reduction (projected)	Annual energy savings (INR)
PTC	16,000	8,00,000	5,60,000	30	1,72,80,000

SITE PLANNING

Special consideration was taken while planning on site.

A) The built mass was planned so as to preserve maximum number of trees on site.

B) The orientation of the block was such that to maximize the green surfaces and to minimize the metallic road surface.

C) The building orientation helps in absorbing maximum solar radiation for solar power generation.

D) Cut & Fill: Earth obtained from excavation of water bodies reused for raising the level as per need, within the site.

E) Landscaping: Top soil stock piled and reused for landscaping.

F) Road area minimized.

G) Turf, plants, shrubs and trees which consume less water and are resillient to local climatic conditions are used thus reducing water consumption for irrigation and landscaping.

WATER CONSERVATION

Water Body on site acts as storm water collection pits and also a landscape feature which complements and completes the built form.

PHYTORID based technology used for Sewage Treatment Plant with a capacity of 15000 Litres. The recycled water from the plant used for flushing purpose (660 people present at all times) for irrigation purpose (for approx7500 sqm) and for washing the floor (approx 12000 sqm) and for other horticulture purpose.

ENERGY CONSERVATION

Self-sufficiency in energy for on site power generation and use within the factory building (except heavy machinery)

A) Installation of SOLAR PV PANELS, both on building and on site as solar parks with a rooftop generation of 1MW and a total of 30 KW .

B) LOW E-GLASS: AIS geosense- green glass used to reduce solar heat gain and thereby reduce cooling loads.

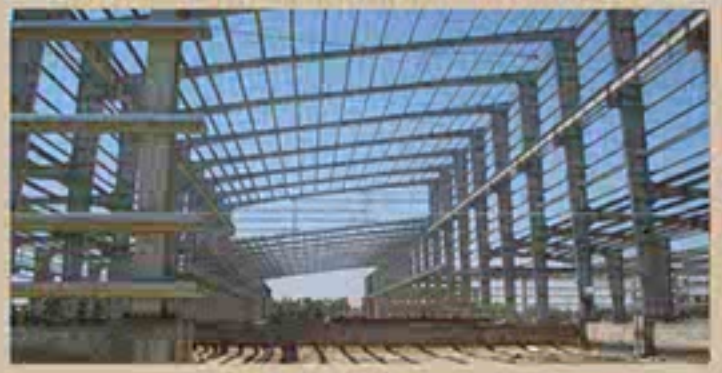
C) INSULATED SHEETING: Surface sheeting designed to provide maximum daylight insight the workshop and the insulation reduces heat gain thereby reducing cooling loads.

PRE ENGINEERED BUILDING SYSTEM

Time Efficient
Energy Efficient
Waste Reduction

The structure was pre engineered which resulted to many advantages:

1. Reduction in Construction Time.
2. Efficient Design: Optimization of Material with steel members casted as per design.
3. Foundation: PEBs are 30% lighter than conventional steel structures, hence the foundations are simpler and easy to construct.
4. Faster Erection time.
5. Large Clear Spans.
6. Quality Control.



TYPE : INDUSTRIAL

REDEVELOPMENT OF GOVERNMENT OF INDIA PRESS

AT MINTO ROAD , NEW DELHI

CLIENT: CENTRALPUBLIC WORKS DEPARTMENT
BUILT UP AREA: 50.710 SQM.

WHY REDEVELOPMENT

Government Printing Press meets all printing needs of both the Houses of Parliament including day to day Parliamentary proceedings, Question Lists, Bills, Acts, Synopsis, Reports, Debates, Who's Who, Parliamentary Committee reports besides the needs of Cabinet Secretariat and various Ministries and Departments of central government.

-Present machines and equipment are of 1980-2005 vintage and some as early as in 1968, resulting in High cost of production.

-Rising demand for printing not met.

-Non-availability of spare parts requiring their prefabrication.

-Lack of multi-color printing facility.

-Printing of Annual Reports of various ministries and departments is being outsourced.

Re-development and modernization

Production capacity : from16 lakh A-5 pages per day (60 cr pages per year) to 45 lakh pages per day.

(164.96 cr pages per year) : 177 % increase

FEATURES-GREEN BUILDING

★★★ GRIHA Rating Building

SEWAGE TREATMENT PLANT is located in Basement which recycles the water which is further used for flushing, horticulture etc.

SOLAR POWER PLANT on roof top (300 kilowatt hours) which generates electricity enough for day lighting and daily usage.

FEATURES-FACADE TREATMENT

Use of GRC JAALI in front façade

-To create interest

-Flexible, durable & strong

-Protects concrete from environmental damage

-Light weight

-Can be casted into any shape

-Good for restoration work

-Survive extreme climatic conditions

Use of TEXTURED PAINT

-Enhanced durability

-Easy to apply & better aesthetics

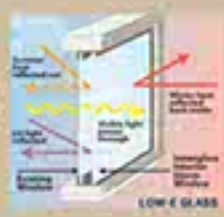
-Covers cracks and defects

-Low maintenance

Use of Low E-GLASS

-AIS geosense – green glass has a transparent coating that reflects the long wave infrared energy i.e. Heat .

-This reduce the solar gain & the cooling loads thus, saving energy.



TYPE : COMMERCIAL

AMRIT BOTTLERS OFFICE INTERIOR

&

FACADE RENOVATION

LUCKNOW

CLIENT: MR. RAJESH LADHANI

Area Renovated : 1300 sq.m..

Director's Cabin

Director's Cabin

Waiting Lounge

INTERIOR & FACADE RENOVATION

Cafeteria

AMRIT BOTTLERS' OFFICE

TYPE : COMMERCIAL

COMMERCIAL COMPLEX CUM RESIDENCE AT INDIRA NAGAR,

LUCKNOW

Client : MR. PAWAN AGARWAL
Site Area: 300.12 SQ.M.
Total Built-up Area : 668.54 SQ.M.
As built area: 1193.75 SQ.M.

TYPE : COMMERCIAL

FACTORY FOR PECO PERFUMERS

AT AMARSANDA, BARABANKI

LUCKNOW

CLIENT: MR. NISHCHAL SURI
SITE AREA: 11,744.57 sq.m. (2.90 acres)
TOTAL BUILT UP AREA: 3214.82 SQ.M.

THE BIRD'S EYE VIEW

2. STORE BLOCK

PROJECT BRIEF:

The total built-up area is 3214.82 sq.m. having the following spaces:

1. Factory Block - 1988.53 sq.m.
2. Store Block - 495.54 sq.m.
3. Admin Block - 196.87 sq.m.
4. Residential Block - 533.88 sq.m.

3. ADMIN BLOCK

1. FACTORY BLOCK

4. RESIDENTIAL BLOCK

TYPE : COMMERCIAL

OFFICE CUM RESIDENCE
FOR DOCKET CARE
AT LUCKNOW

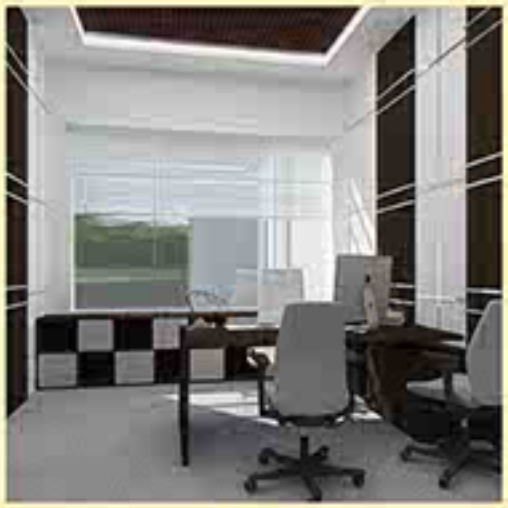
CLIENT: MR. PANKAJ AGARWAL
TOTAL BUILT UP AREA: 676.64 SQ.M

PROPOSED RESIDENCE FOR MR. PANKAJ AGARWAL
VIEW FROM 15 FT WIDE ROAD

PROPOSED RESIDENCE FOR MR. PANKAJ AGARWAL
VIEW FROM 12 FT WIDE ROAD

CABIN 1

GROUND FLOOR PLAN
FIRST FLOOR PLAN
SECOND FLOOR PLAN



CABIN 2

INSTITUTIONAL PROJECTS

TYPE : INSTITUTIONAL

SRI RAMSWAROOP MEMORIAL UNIVERSITY

DEVA ROAD, AT LUCKNOW

CLIENT:SHRI RAMSWAROOP MEMORIAL CHARITABLE TRUST
SITE AREA: 106.86 ACRES.

"Knowledge is power, and it is very true in today's competitive world where countries are increasingly being categorized as knowledge rich or knowledge deficient. We aimed to create a university where true knowledge becomes the propeller of growth for the students so that they may stand at ease with the best of the world and also see that India claims its rightful place in the comity of nations."

With the above motto of our client "Shri Ram Swaroop Memorial Charitable Trust" and their promoters, we prepared our design methodology to fulfill the above and to provide environment which can be easily fused and blended with the national and international textures and challenges.

The design was prepared in order to fulfill two main goals: Integration of building with the natural surrounding landscape and functional clarity by differing characteristics of spaces, volume and operational buildings. The university has a prolated area of 106.86 acres consisting of Academic, Administration, Hostel, Mechanical, Law Block etc. having green building features like Rain water harvesting, water recycling, solar water heater, solar lighting, STP/ Bio gas plant, grass crete pavers, fly ash blocks, local water body restoration, protection of existing trees with the use of maximum day light. The university offers undergraduate, post graduate and doctoral programmes in Engineering (Mechanical, Civil, Electrical, Electronics & Communication, Computer Science), Bio-technology, Bio-Science, Management, Commerce, Economics, Computer Applications, Journalism, Mass Communication, Legal Studies , Basic Sciences and Humanties.

Our design methodology was not only concentrate on the spatial presentation of art but it had grown and understood the institution as a medium in its own right which developed as a center of learning where individual was prepared for outer world with a sense of his responsibility to society and environment.

Academic zone was designed with main library in centre and academic blocks around it which acts as centre for learning area while Administrative Block and Auditorium were placed in front to minimize the interference to academic zone and Residential zone at rear. We opted for multistory blocks (G + 6) so as to maximize green cover (open areas) on site and to minimize built area. Academic block was designed placing Classrooms and Studios around a central court which visually connects all floors.

TYPE : INSTITUTIONAL

SRMS BUSINESS SCHOOL AND ENGINEERING COLLEGE

AT LUCKNOW KANPUR ROAD, UNNAO,U.P.

CLIENT:SHRI RAMRAKHI MURTI SMARAK TRUST
SITE AREA : 15.02 ACRES (Approx.)
BUILT UP AREA: 38932.76 SQM.

SHRI RAMRAKHI MURTI SMARAK BUSINESS SCHOOL

Our design methodology has not only concentrated on the spatial presentation of art but it has grown and understood the institution as a medium in its own right which develops as a center of learning where individual is prepared for outer world with a sense of his responsibility.

Layout: Buildings are integrated with green areas over the site. Layout is such that the buildings are well connected to each other. It has a central green court.

Design: Administrative and Academic block has been placed in front with student activity center. Residential and hostel blocks at rear with green areas. Activities such as Open air theatre and Auditorium is placed near the entrance so as to facilitate the internal movement and external movement individually. The corridors maximizes natural light and ventilation.

Circulation: Zoning has been done in such a way that it filters visitors and their movements as they enter and move. Building arrayed along the street edges, allow multiple pedestrian entries and controlled vehicle access.

Services: Services have been integrated with the building architecture.

Time: In any institutional building, the biggest challenge is to get the building constructed well on time for the commencement of the session.

SHRI RAMRAKHI MURTI ENGINEERING COLLEGE

Layout: The campus is designed in such a way that the buildings are placed within the green pockets in small and large masses, thus making the campus an interactive zone. Buildings are placed minimizing the road network on the site.

Design: Design for the campus is based upon Innovative Arrangement of Form and Space to create circle of Interaction which helps in overall development of students and provide them flexible (formal and informal) spaces for different activities.Interior spaces are designed such that it maximizes the daylight thus creating a bright and open study environment. The dominating colors, grey and white, allow integrating the building into landscape, despite its huge dimensions.

Circulation: Careful manipulation of massing, connections within the buildings and to the other buildings through circulation, use of materials to modulate views and perceive volumes with inclusion of viable and sustainable landscape features. The complex consist of a block designed keeping modern architecture in mind.

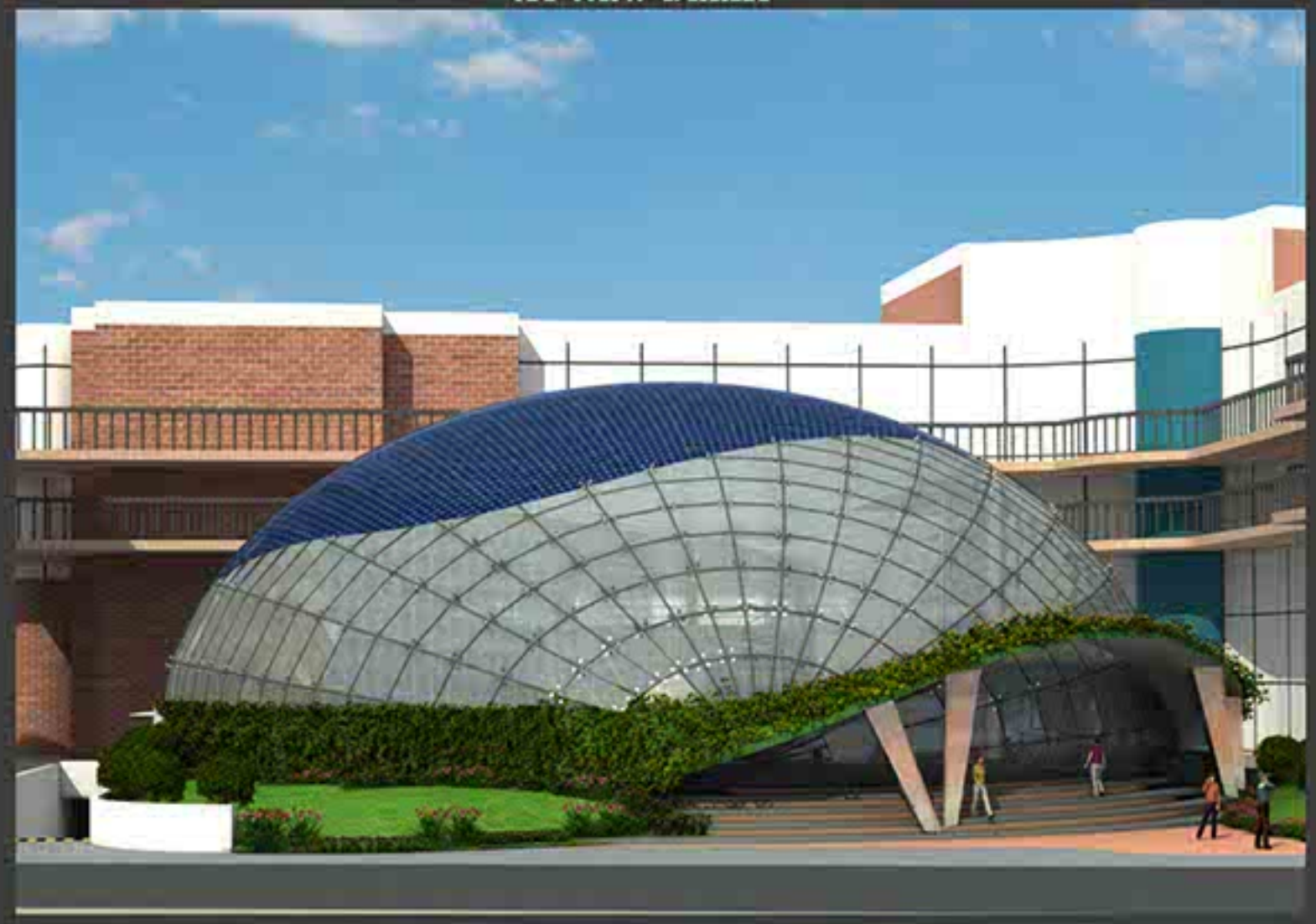
Services: Services have been integrated with the building architecture.

Time: In any institutional building, the biggest challenge is to get the building constructed well on time for the commencement of the session. This was successfully achieved in this building as it got completed within 6 months and was handed over.

TYPE : INSTITUTIONAL

AUDITORIUM AND LECTURE THEATRE COMPLEX FOR SAFDARJUNG HOSPITAL

AT NEW DELHI



CLIENT: CENTRAL PUBLIC WORKS DEPARTMENT
SITE AREA:36795.12 SQM

Proposed Lecture Theatre Complex and Auditorium in Safdarjung Hospital complex, New Delhi

The Site is located in Safdarjung Hospital Complex, New Delhi. It is surrounded by Vardhman Mahavir Medical College in the north , Sport Injury block in the south - westernpart, OPD block and Department of Laboratory Medicine in the south-eastern part and eastern part respectively.

The ratio of existing built-up area to open space is represented in the figure below.

As seen in picture 'A' ratio between green and built is not propionate as green is very minimal and less as compared to built mass so acquiring or proposing blocks on already cramped/ highly dense built area will lead to high congestion of buil masses with no green and open spaces.

TYPE : INSTITUTIONAL

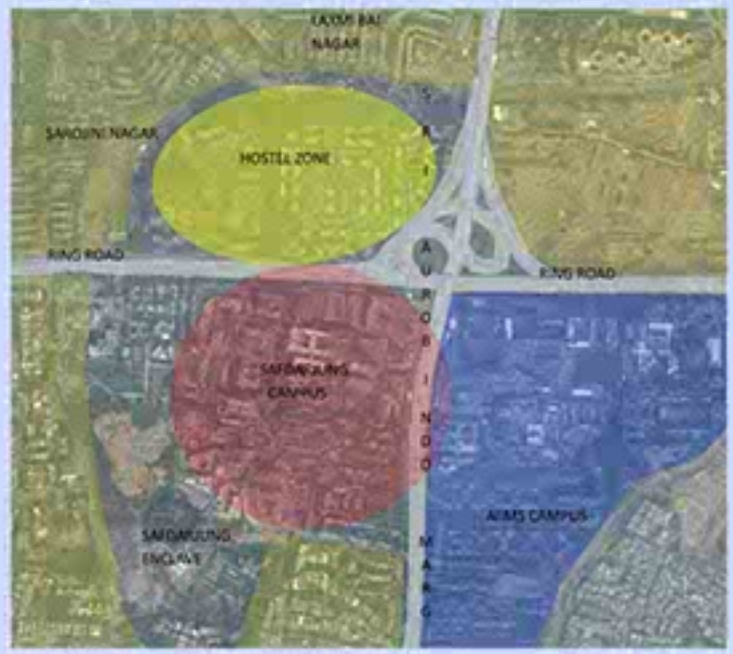
BOYS HOSTEL VMMC COLLEGE & SAFDARJUNG HOSPITAL COMPLEX

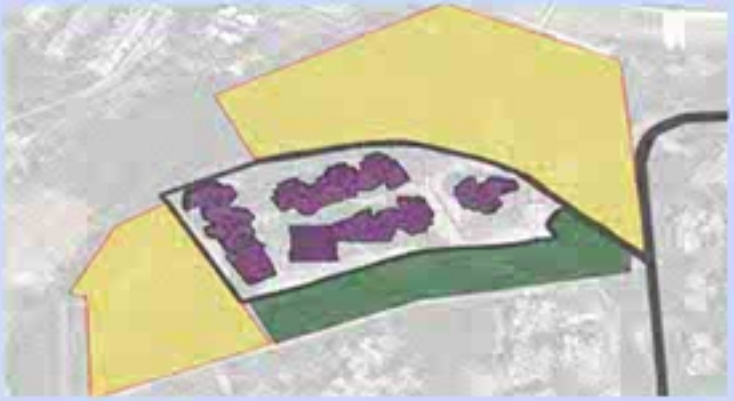
AT NEW DELHI

CLIENT: CENTRAL PUBLIC WORKS DEPARTMENT
SITE AREA : 17296.01 S.Q.M.

Proposed Boys Hostel at West Kidwai Nagar, VMMC College & Safdarjung Hospital Complex, New Delhi

Safdarjung Hospital is a Central Government Hospital under the Ministry of Health & Family Welfare. It has grown over the years into one of the largest, tertiary level, multi disciplinary health care institute. It has a medical college associated with it named Vardhaman Mahavir Medical College.
Vardhaman Mahavir Medical College was established in 2001,recognized by Medical Council of India. The site proposed for the Boys Hostel lies in Safarjung Enclave, at the junction of the Ring Road and Sri Aurobindo marg along with the existing hostel campus.





Proposed site for Boys Hostel

Existing Boys Hostel blocks

Green area

The proposed hostel block lies within the existing hostel campus. To facilitate and provide accommodation to the resident scholars in Safdarjung college.

TYPE : INSTITUTIONAL

PROVINCIAL ARMED CONSTABULARY (P.A.C.).

AT LUCKNOW

CLIENT: LUCKNOW METRO RAIL CORPORATION.
BUILT-UP-AREA : 20205.00 SQ.M.

This is one of the major projects of Lucknow Metro Rail Corporation for Provincial Armed Constabulary (PAC) at Kanpur Road, Lucknow. The campus is a combination of mixed occupancy like Residential, Commercial, Office Building, Health Center, Barracks, Community Center, VIP Guest House etc. The project is being developed in an area of 123605.30 sqmt with the built up area of 81946.70 sqmt. The view of the building itself portrays the magnificence of the campus.

The campus has been designed keeping in mind that the existing campus already has numbers of buildings which accomodate nearly 2000 population.
During construction of new proposal it has been emphasised that existing campus are retained in its original form till the completion of new campus there giving it modern look and facilities.

The development of Residential and Non-residential buildings for 32 PAC Battalion Lucknow campus mainly have following components :

Non Residential

1) Administrative Block (G+2) 1 -unit
2) Health Centre (G+1), 1 -unit
3) Armoury and quarter guard (B+G+1) 1-unit
4) Barracks (G+2) 9-units
5) Dog kennels (ground floor) 1-unit

TYPE : INSTITUTIONAL

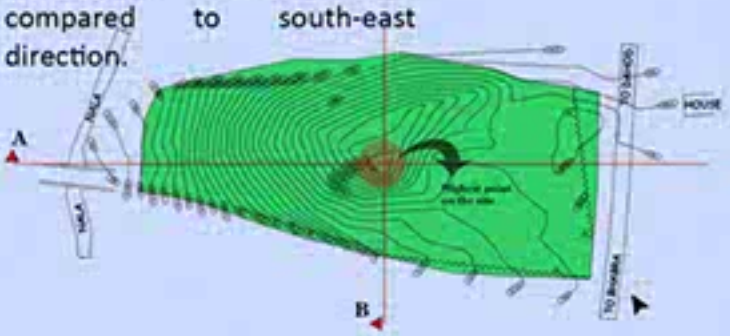
NEW COLLEGE BUILDING AT BHABRA

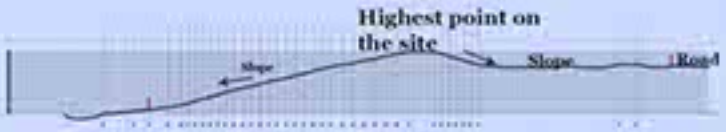
AT ALIRAJPUR M.P.

CLIENT: ENVIRONMENTAL PLANNING & COORDINATION ORGANISATION (EPCO).
SITE AREA : 5781 SQ.MT.

SITE CONTEXT

The site is located at Chandra Shekhar Azaad Nagar (Bhabra), District Alirajpur, Madhya Pradesh. The site is having contours with slope going up till 13.5 meters.The gradient of contour is more towards north-west direction as compared to south-east direction.

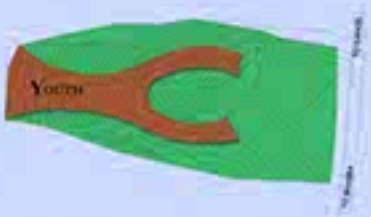




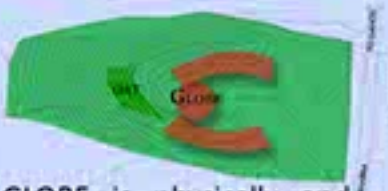
Highest point on the site which is very prominent & is visible from far away distance.

Due to presence of steep contours on the site, the block is designed along the contours with minimum cut and fill process

DESIGN IDEA

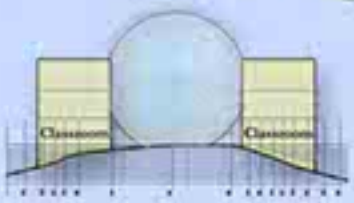


YOUTH needs knowledge, information and inspiration to venture out into world.



GLOBE is physically and symbolically the heart of the campus.

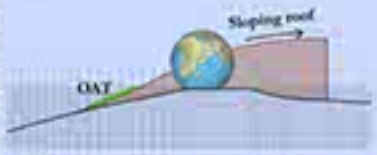
A college is an educational institution providing more knowledge, opportunities & direction for YOUTH in life. The central block- GLOBE is designed to be much more than a traditional library, it is also an innovative space giving oppotunities to explore and discover. The building has sloping roof along the countours depicting the growth of the YOUTH.



The contours are utilised in the most efficient way as the steps of the classroom. Classrooms are designed along the contours thereby minimising the cut and fill process.

GLOBE compriseS of entrance, library & a hall meant for innovative as well as communicative space.

GLOBE is placed on the top most level while college sits on a lower level of the site.



OAT provides an inviting park - like atmosphere making it an ideal environment for interaction and learning.

YOUTH

Youth is the time of life when one tranforms from a child into a mature adult.

CHARACTERISTICS

Fresh | Energetic | Innovative | Colorful |Aspiring

YOUTH IS REPRESENTED THROUGH THIS SYMBOL

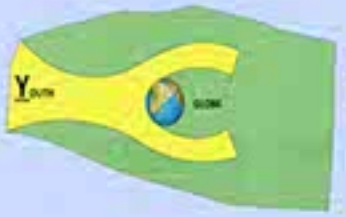
- All our knowledge is derived from Mother Earth,thus atmost knowledge for us is earth, represented in three dimensional through - a GLOBE.
- A globe also displays the inter-relationship between the various countries.

KNOWLEDGE

- Knowledge forms the basis of living, which we gather through learning and experience.
-Learning is a process in which we discover about ourselves and our responsibility towards society and enviornment.
- A college is a higher level of learning centre where we gain experience and values to lay our lives on.

YOUTH - THE FUTURE OF WORLD

The Youth are The Future; for a Better Tomorrow to happen there has to be a better today for the Youth.



Youth with their dreams, enthusiasm and ability can build a shining and successful world.

Youth need knowledge, information, inspiration and physical stimulation to venture out into world. Hence an environment that suits their mindsets and leads them in a positive development is must.

CHARACTERISTICS

The entrance plaza with its grandeur is inviting and regenerates the primordial sense of continuity and growth.

TYPE : INSTITUTIONAL

CENTRAL INSTITUTE OF TECHNOLOGY

AT KOKRAJHAR, ASSAM

CLIENT: Central Institute of Technology
SITE AREA: 106 ACRE
Estimated Cost: 600 Cr.

A new site is proposed near the exsisting campus of Central Institute of Technology in the Kokrajhar, Assam. Site has rich green land and a river flowing through the campus.

SALIENT FEATURES OF SITE:-

1. Site - The site is dynamic with the presence of the river and certain dense green areas which adds the green mass on site.
2. Site Movement - Serenity of the campus is maintained by restricting vehicular movement along the front of site and maximizing pedestrian movement.
3. Recycling waste water - The recycled water is collected and utilized for horticultural use.
4. Placement of blocks - The built mass is placed according to sun movement. Minimum surface area in S-W direction, hence, minimum heat gain.
5. Built and open relationship - Integrated built and open spaces for proper light and ventilation.

Site Area : 106 acres.
Site consists of :-
1.Administrative block
2.Academic block
3.Library
4. Auditorium
5.Hostel blocks.

1. AERIAL VIEW
2. LIBRARY
3. ACADEMIC BLOCK
4. AUDITORIUM
5. ADMINISTRATIVE BLOCK
6. CONCEPTUAL PLANNNING

TYPE : INSTITUTIONAL

RESIDENTIAL SCHOOL FOR BOYS & GIRLS

AT SHAHDOL, M.P.

CLIENT: ENVIRONMENTAL PLANNING & COORDINATION ORGANISATION (EPCO).
SITE AREA : 36759.37 SQM.

	MAX	USED	FUTURE EXPANSION
Achieved F.A.R	1.0	0.37	0.63
Ground coverage	35%	15%	20%

The prime user of the residential campus are the students in the age group 11- 18 years. For a multidimensional growth of the students, the campus must provide a mould into which student's free and open minds can develop in various areas like Social & emotional understanding, Cognitive ability, Physical development and other skills. This core nature of openness and freedom is embodied in the dynamic element adjoining the site i.e. The River. The river will prove to be a great influence in the development of the residential school campus. Taking inspiration from the dynamic nature of the river, the campus is conceptualized as a free flowing, dynamic and an unobstructive flow in the form of 'Fluid'. The 'Fluid' penetrates the sites and flows freely, generating islands which will act as different zones e.g. Academic, Residential, Sport's facility etc. The path taken can thus be segregated into vehicular and pedestrian movement, generating free flowing movement with in the campus.

Salient Design Features:-

1. Site - The site is dynamic with the presence of the river and this dynamism is adopted in spreading out the built and green mass on site.

2. Site services - The services of the blocks and site are designed utilizing the natural site slope.

3. Site Movement- Serenity of the campus is maintained by restricting vehicular movement along the front of site and maximizing pedestrian movement.

4. Recycling waste water– The recycled water is collected and utilized for horticultural use.

5. Rain water harvesting – Recharge pit is provided on the lowest level of the site to utilize the natural slope on site in collection of storm water.

6. Placement of blocks - The built mass is placed according to sun movement. Minimum surface area in S-W direction, hence, minimum heat gain .

7. Built & open relationships- Integrated built and open spaces for proper light and ventilation.

8. Future Expansion - Provision for vertical and horizontal expansion in building blocks.

9. Use of local materials- Stone pavers, fly ash bricks, bamboo sticks, straw, mud etc. are used.

HOSPITALITY PROJECTS

TYPE : HOSPITALITY

JALSA MARRIAGE LAWNS & BANQUET HALL

AT SULTANPUR ROAD, LUCKNOW

CLIENT: JALSA RESORT (INDIA) PVT. LTD.

Jalsa Marriage Lawns & Banquet Hall at Sultanpur Road, Lucknow.Jalsa Marriage Lawns & Banquet Hall at Sultanpur Road, Lucknow.

Away from the chaos of city life, in the serene surroundings of a verdant landscape, Jalsa spells comfort, convenience and class in superb style. The marriage lawn is located at Sultanpur road having a wide area available for any occasion. The resort is spacious with well maintained gardens ,lush green environment and large halls suitable for any no. of gatherings. The resort is conveniently located close to the city while being comfortably away from the hustle and bustle of urban life. As one of the finest resorts in India, it is a perfect place to actualize your purpose - whether it is a vacation or a weekend getaway, a celebration or a business event.

TYPE : HOSPITALITY

CHINMAY RESORT

AT SULTANPUR ROAD,
LUCKNOW.

CLIENT: CHINMAY RESORT PVT. LTD.
BUILT-UP AREA: 13239.00 SQ.M., ESTIMATED COST: 27.10 Cr.

Chinmay Resort is one of the Premium Business Class Luxury Resort & Hotel offering 4 star amenities and services at 2 star prices. Located only 15 mins away from the Airport, the resort has green surroundings and is away from the crowded areas of the city Lucknow.

Chinmay Resort consist of Suites, Banquet Halls, Restaurant, Master Kitchen, Dormitories and Big Open green area for outdoor and indoor functions / activities.
It is situated in the midst of green farms, which enhances the quality of entire environment and gives a feeling of being in nature. Green areas are planned to create many outdoor activity areas, connected to internal spaces which can be utilized as spill over areas.

Reception Area

Main Block

Suites

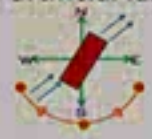
TYPE : HOSPITALITY

STATE GUEST HOUSE, BHOPAL

AT INDORE

CLIENT : ENVIRONMENTAL PLANNING & COORDINATION ORGANISATION (EPCO).
BUILT - UP : AREA - 7878.17 SQ.M.

State guest house is located in Bhopal which is known as the City of Lakes for its various natural as well as artificial lakes and is also one of the greenest cities in India.



Orientation of the building complex –
It has been kept such that Solar heat absorption for the building is minimize while we optimize on solar light

Climate –
Humid subtropical, cool, dry winters, hot summer and humid monsoon

Placement of building -
- On high contours at south west side of site.
- Ground floor area (Maximum Occupancy) is cut off from sun radiation by earth berming.
- Building has big frontage which is further increased by slightly rotating and placing the block diagonally.
- Building gets full view as we approach the site and enter the campus.

ABOUT PROJECT

The project is an initiative of The Public Works Department. Objective to take up this project of State Guest House is to create an innovative, self sustainable, luxurious space for government officials incorporating the other state of art facilities along with the habitable rooms.Bhopal being the Capital city of Madhya Pradesh; all State related activities are being performed at Bhopal itself and almost all the Beaurocrats/ Government Officials have frequent visits to Bhopal. Thus the need for establishing Guest House at Bhopal arises so that the Officials could be provided with good facility for staying and as well as have an attractive ambiance. Guest-House was proposed with all State of art facility; comprising of meeting halls, banquet hall, dining area, recreational spaces like gym, cafeteria etc. Looking at the present & future requirements, it is proposed to have luxurious habitable spaces such as habitable spaces such as VVIP's rooms, VIP's rooms, and Officer's room along with supporting paraphernalia. Quarters of various types are proposed for the staff officials along with the guest house.

SITE AND ITS CONNECTIVITY

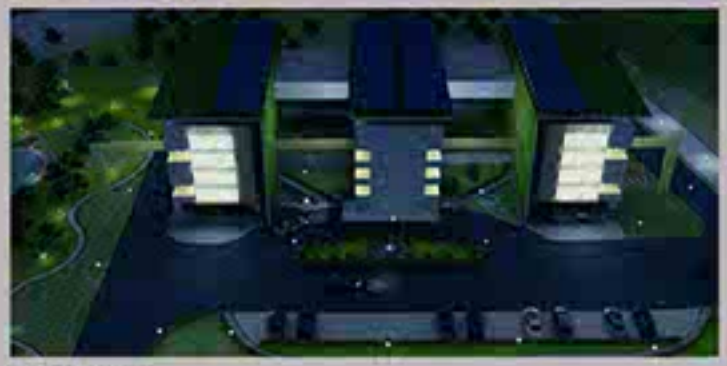
The proposed site is situated along Link-road no.-3 (Bitthal market- Nehru Nagar road) having area of about 3.02 Acres, the rear side of which is earmarked for Revenue Department which has its separate connection on the same link- road.

METHODOLOGY

The implementation of such a large project requires high degree of responsibilities and can be completed by adopting "best practices" in Building design and Construction both,

1. In the field of planning i.e. optimum utilization of land with green spaces, effective planning of indoor spaces, natural lighting and ventilation.
2. In terms of cost-effective technologies,use of materials with higher strength values.
3. Incorporating green building features so as to make building energy efficient.
4. Planning and designing of various building blocks have been done considering their inter-relationship & functionality, along with complete site development, and landscaping.
5. The orientation of building has been kept such that solar heat absorption for the building is minimized while we optimize the solar light.

VIEWS



FEATURES

Building has big frontage which is further increased by slightly rotating and placing the blocks diagonally. Building gets full view as we approach the site and enter the campus.

The three blocks connected by the central blocks are designed in such a way that they maintain there individuality and serve as a residential zone for the state officials. Ground floor is kept free from the residential accommodation thus serving as a large interactive space and at the same time marking a grandeur entrance for the blocks.

Central block on the alternate floors serve as the connecting ribbon for all the blocks. It enhances the look of the building by breaking the solidity and at the same time provides the interactive interconnection for the three blocks in the form of terrace gardens. The terrace garden exemplifies the interactive zone as it connects all the blocks.

TYPE : HOSPITALITY

CAPPUCCINO BLAST
AT AISHBAGH, LUCKNOW

CLIENT: P.K.VAID & RASHMI VAID
AREA OF CAPPUCCINO BLAST: NEW CONSTRUCTION/EXTENSION - 796.63 SQ.M.
INTERIOR AREA UNDER RENOVATION - 2694.20 SQ M.

Luxury Room (Doube Occupancy)

Luxury Room

TYPE : HOSPITALITY

MAYASSAR MARRIAGE LAWNS
KANPUR ROAD,
LUCKNOW

CLIENT: MR. PAWAN AGARWAL
SITE AREA: 1314.45 SQ.M.

EXTERIOR MORNING VIEW

EXTERIOR NIGHT VIEW

LANDSCAPE AND RECREATION PROJECTS

TYPE : LANDSCAPE & RECREATIONAL

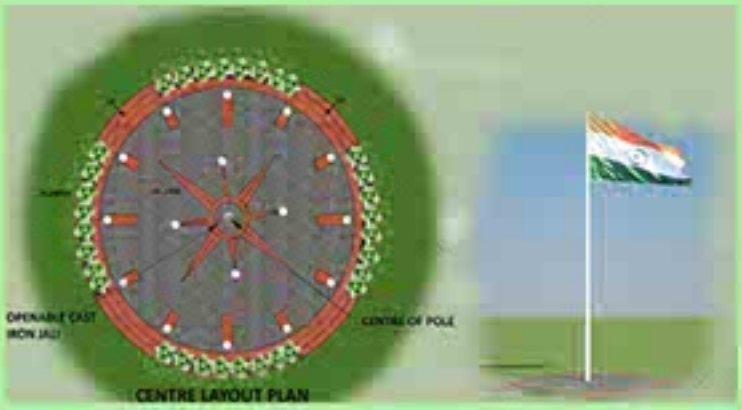
SHRI JANESHWAR MISHRA PARK

LUCKNOW

CLIENT:LUCKNOW DEVELOPMENT AUTHORITY

AREA : 374 ACRES.

MAJOR ATTRACTIONS



FLAG AREA

SPORTS COMPLEX

GONDOLA BOAT RIDES / SHED

AMPHITHEATRE

KIDS PLAY AREA

FOUNTAIN

UPCOMING DEVELOPMENTS

SEATING ALONG WATER BODY

MUSICAL FOUNTAIN

OPEN KITCHEN

FOOD KIOSK

CYCLE MUSEUM

GATHERING SPACE

REDEVELOPMENT OF SHAHEED PATH SERVICE LANE

ARINEM

TYPE : LANDSCAPE AND RECREATIONAL

ANANDI WATER PARK AT FAIZABAD ROAD, LUCKNOW

CLIENT: ANANDI WATER PARKS & RESORTS PVT. LTD.
ESTIMATED COST: 3.50 Cr.

It was the first water recreational park in Lucknow having various facilities like

- Water Slides
- Rain Discos
- Swimming Pool
- Kids Parks
- Discotheque
- Conference & Celebration Hall
- Restaurant & Catering Services
- Festive Celebrations,
- Marriage Setup,
- Lawns & Banquets,
- Rooms to Stay,

The water park has 32 water slides, water fall, laxman jhula, aqua dances floor & many other facilities attracting the residents of Lucknow & nearby people.

ARINEM LEADS

The Technology

What is R.M.D.C?

Rapid Monolithic Disaster Proof Construction

The construction in which all elements are cast together with RCC by using Aluminum form/similar form work, which supports wall, beam, column, roof slab and other elements together for concreting in one go. We are one of the leading consultants to work in Monolithic Concrete Construction Technique. We have almost designed more than 40 thousand dwelling units and 50 lac sqm of area in the same technology which one of the highest in the country, some major benefits we are having by using Shear Wall Technoogy are:-

- Rapid construction with quality control,Competitive costing, direct & indirect saving.
- In shear wall construction, there are no columns and beams we get clean interiors without any offsets.
- Higher carpet area for same Built Up Area.
- The entire structure, including the foundation, walls and the slabs act as structural members in an integrated system.
- With no plaster, direct finishes and durable walls minimize the decoration, repair and refurbishment costs.
- The window and door frames, electrical conduits and sockets, water pipes and sewer ducts are all built into the forms, thereby eliminating the need for drilling, boring and chiding/cutting work.
- Concrete's thermal mass coupled with correct insulation minimizes heating costs and can reduce air conditioning requirements, the resultant is beneficial for the environment.
- Concrete is an inert material that is easily recyclable. Old concrete that has reached the end of its service life can be reused as aggregate for new concrete mixtures in different & secondary uses.
- Shorter site preparation and establishment due to less number of ingrediants.
- Less manpower requires, particularly unskilled labour.

WHAT IS R.M.D.?

Earlier, The monolithic construction was limited to special structures like **domes,** huge **shell roofs**, architectural elements and **large footings** for foundation etc, where, the structures had no joints. Performance anddurability thereof were of utmost importance. Similar practices were never practiced for housing may be due to lesser advancement in form-work and concrete technology for mass construction.

India has shortage of about **26 million** dwelling units, which is likely to escalate even more in coming years. To meet this huge requirement, Rapid, Durable, maintenance free and cost effective technology is needed. **RMD Technology** ideally meets this requirement. The paradox is that, we are often, amazed at the progress our country has made, when we see an **auto- rickshaw driver** with a **mobile** phone but, we fail to notice that he is still **living in a slum-like dwelling unit.**

TECHNOLOGY PROFILE OF R.M.D. TECHNOLOGY

IMPORTANT STEPS in IS R.M.D. ?

1.Planning, Design & Reinforcement detailing

2.Selection of Shuttering

3.Selection of Concrete mixes

4.Skills to handle shuttering, reinforcement and concreting operations.

5.Optimising the time cycle..

RMD TECHNOOGY – ADVANTAGES ?

1. Speed
2. Quality
3. Consistency
4. Superior Str tural System
5. Durability
6. Sustainability
7. Economy of scale
8. Use of existing labour

1.Speed

- Post foundation stage - beam, column, brick masonry, mortar, plastering are eliminated.
- These processes are replaced by single pour concrete construction
- Construction time is drastically reduced by over 80%

RMD TECHNOLOGY – ADVANTAGES ?

2. Quality

•Use of homogeneous material – M 20
Smart Dynamic Concrete (SDC – free flow)
•Replacing bricks, mortar & concrete,
which are used separately.
•Variations in operations/ skills are avoided

3.Consistency

•Standardised, system-driven repetitions are used in construction.
•Since single homogenous material is used,better consistency can be achieved in production & placement.

4.Superior Structural System

•Better structural rigidity & ductility due to shear wall design & use of homogeneous RCC.
•Moisture resistance is better due to monolithic (joint-free) construction.
•Better resistance to differential thermal stresses due to climatic changes (as compared to conventional construction system.
•Better resistance to lateral forces – due to Earthquake/ tornado/ flood/ wind forces etc.

5.Durability

•Durability & superiority of RCC over all other materials is proven.
•Monolithic structure eliminates joints, which cause cracks,moisture penetration and weakening of structure in the longterm.

6.Sustainability

•Optimisation of construction materials
•Avoidance of wastages at site
•Utilisation of industrial bye-products like fly ash, slag
•Recyclability of materials after useful life of the structure
(RCA – Recycled Concrete Aggregate)

7.Economy of Scale

• Due to the use of homogenous material, cost of divergent materials (as compared with normal construction) is reduced.
• More number of repetitions bring down the cost of formwork for mass construction.
•Increasing labour productivity thus, relatively less number of labour hours.
• Due to faster pace of Construction, reduction in Working Capital Cost.

8.Use of Existing Labour

• No special skills / tradesmen are required for this technology.
• Existing labour force can be trained easily within few days of working at site.

CONVENTIONAL STRUCTURE

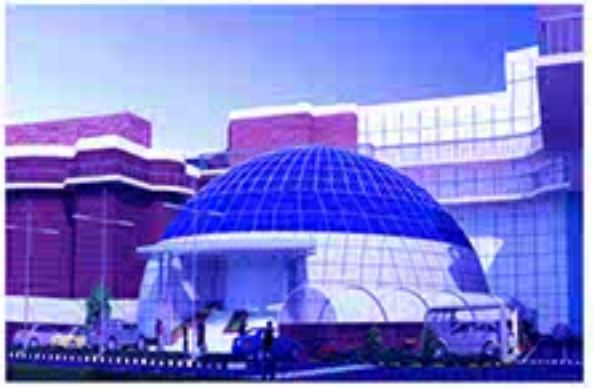
- Walls , Columns, Beams and Ceiling functions as an individual component.
- Less structural strength compared to RMDC.
-Less Disaster-resistant structure.

V/S

R.M.D.C.

- Walls, 10-20 cm. thick, are joined to the foundation and the ceiling slabs.
- The high levels of dimensional accuracy.
- Disaster-Resistant structure.












ARINEM

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