Topic RESIDENTIAL BUILDING WITH FIBER REINFORCED PLASTIC BASED ELEVATION

A DESSERTATION

Submitted in Fulfillment

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SYNOPSIS

TITLE

RESIDENTIAL BUILDING WITH FIBER REINFORCED PLASTIC (FRP) BASED ELEVATION

INTRODUCTION :-

RESIDENTIAL BUILDING ARE NOW BEING MADE IN MULTIPLE FLOORS . THIS IS BEING DONE DUE TO LACK OF LAND AREAS IN URBAN AREAS AND AN ADVERSE REQUIREMENT OF POPULATION HOMES WHICH NEED TO BE MET. THUS IN ORDER TO MEET THIS REQUIREMENT OF HOUSING FOR MASSES MULTI LEVEL HOUSING PROJECTS HAVE BECOME THE FIRST CHOICE OF DEVELOPERS NOW DAYS.

MULTI LEVEL RESIDENTIAL PROJECTS START FOR TWO FLORS AND GOES UPTO SIXTY FLOORS AS PER INDIAN MARKETS UPTO NOW.

IF WE TALK ABOUT LOUCKNOW THE MAXIMUM NUMBER OF FLOORS WHIACH HAVE BEEN MADE UPTO TO TODAY IS AROUND TWENTY FIVE FLOORS MAX ON SAHEED PATH LUCKNOW BY A GROUP NAMING SHALIMAR.

IN MULTI LEVEL PARKING POPULATION DENSITY BECOMES VERY MUCH THUS SIMILAR PRECAUTIONS ARE NEEDED TO BE TAKEN FOR NEARBY AREAS FOR CONTROLLING SUCH HIGH DENSITY POPULATION IN THESE AREAS.

IF WE TEND TO XOUNT THE POPULATION OCCUPANCY OF SUCH PROJECTS THE METHOD SHALL BE UNITS PER FLOOR

MULTIPLIED BY THE NUMBER OF TOTAL FLOORS AND THUS THE ASNWER COMES TO NUMBER OF UNITS IN THAT PROJETC. WHICH IS THEN MULTIPLIED BY FIVE OR SIX USERS PER UNIT AND WE GET RIGHT ANSWER.

MOTIVATION :-

OBJECTIVE :-

The main goal of the project is to design spaces for living in which individuals can feel connected and where they can live.

To provide the a luxurious feel of living via enhanced designing work for elevations and internal working spaces.

RESEARCH WORK/ METHODS/DESCRIPTION :-

The data will be collected through Internet Books Research papers Interviews Questionnaires

LIST OF CASE STUDIES :-

- 1. ONE OAC, SAHEED PATH ROAD LUCKNOW.
- 2. PURVANCHAL KINGS COURT, GOMTI NAGAR, LUCKNOW.

CONCLUSION OF CASE STUDIES :-

THE DESIGNING DONE WAS VERY PLEASING BUT LACKED A FEATURE WHICH MAKES IT A STAND OUT BUILDIING JUST BY LOOKING AT ITS EXTERIOR.

LIMITATIONS :-

- 1. THE DESIGNIG MATERIAL SELECTED IS FRP (FIBER REINFORCED PLASTIC) i.e. THIS MATERIAL COSTS CONPARATIVELY LIGHER AS COMPARED TO OTHER BUILDING MATERIAL USED FOR ELEVATION WORKS
- 2. FRP DESIGNING AS COMPARED TO OTHER MATERIAL AVAILABLE IN MARKET IS A LITTLE SLOW MANUFACTURING PROCESS AS COMPARED TO OTHERS. AS IT IS A ORDER TO MANUFACTURE PRODUCT AS COMPARED TO OTHER AVAILABLE MATERILS IN MARKET.
- 3. FRP NEEDS SKILLED CONTRACTORS FOR INSTALLATION. THUS WORKMANSHIP IS A SERIOUS CONCERN IN IT.

DESIGN ISSUES :-

THE MAIN DESIGNING ISSUE WAS TO DESIGN CLASSICAL ELEVATION IN A CONPACT CITY LIFE STRUCTURE BUILDINGS AS THEY DO NOT HAVE MUCH SPACE TO PLAY WITH.

RADICAL ISSUES :-

- 1. A BALANCED DESIGING AS PER SYMMETRY
- 2. PROPER CUICULATION OF ELEVATION DESIGNING
- 3. PROPER LIGHTING PROVIDED
- 4. MAINTING THE ELEVATION DEMANDS AS PER PLANNING

RESEARCH POINTS :-

- 1. CLASISCAL BUILIND DESIGNIG PRINCIPLES I.E. BALANCE, SYMMETRY, RHYTHM ETC.
- 2. PROPER WAY OF IMPLEMENTING CLASSICAL BUILDING DESIGNING ELEMANTS ON CITY LIFE COMPACT STUCTURES.
- 3. PROSTIONING AND LOCATIONSNIOG OF TYPES OF LIGHTING AS THE ADD ON TO THE BASIC SOLE OF DESIGNIIG.

CASE STUDY :-

1. ONE OAC, SAHEED PATH ROAD LUCKNOW.

INTRODUCTION :-

SHALIMAR ONE OAC IS A RESIDENTIAL TOWER LOCATED AT SAHEED PATH LUCKNOW. SITUATED NEXT TO SHALIMAR ONE WORLD TOWNSHIP. IT IS A HIGH RISE BUILDING RESIDENTIAL CATERING MORE THAN 120 UNITS IN TWENTY TWO FLOORS AND OFFERING MANY FEATURES SUCH DOUBLE HEIGHTS VAST BALCIONIES ETC.

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LOCATION :-

Located in the heart of Lucknow with connectivity from Faizabad Road, Sultanpur Road, Raebareli Road, Kanpur Road along with Puravanchal Expressway, where navigation is interrupted to cover the distance.

- 9 Mins Walmart Best Price
- 6 Mins Super Speciality Cancer Institute & Hospital
- 10 Mins GD Goenka School
- 6 Mins Golf Course, Sushant Golf City
- 12 Mins ATAL Ekana International Cricket Stadium

- Exclusive 272 unit collection
- Nature Inspired Luxurious Homes
- Situated in Sushant Golf City
- Spacious balcony with every unit



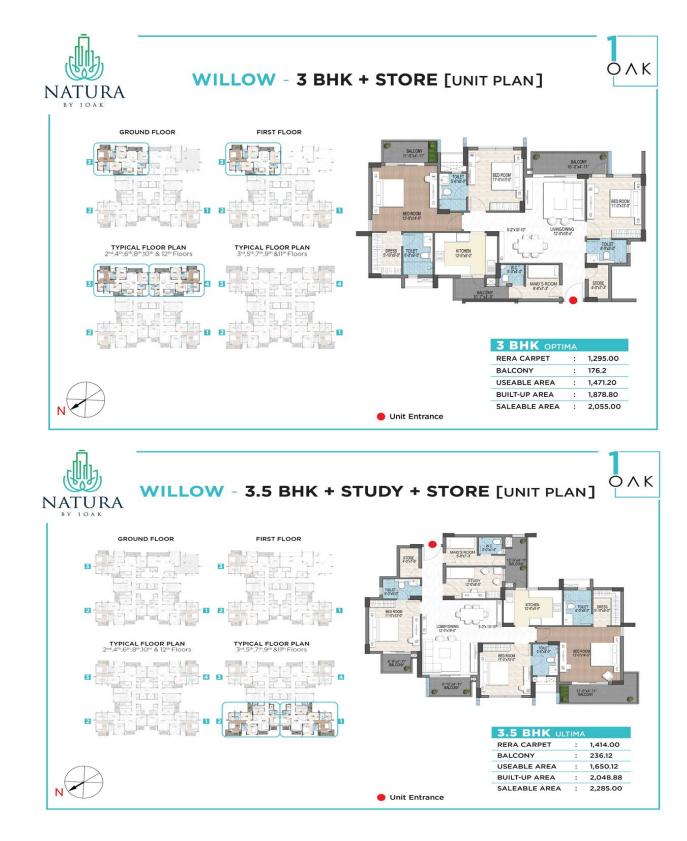
SITE PLAN :-



FLOOR PLAN :-



UTILITY AND EMINITITES :-





SPECIFICATIONS :-

SPECIFICATIONS

STRUCTURE

A structure designed with the highest seismic considerations for the zone as stipulated by the BIS code and for better safety

FOUNDATION

Reinforced concrete footings & columns.

ALL BEDROOMS

 Flooring / Skrting
 Vitrified tiles 600x600 mm

 Wall Finishes
 Acrylic emulsion on POP punning

 Ceiling
 OI bound distemper.

LIVING / DINING ROOM

 Fooring / Skirting
 Superior quality vitrified tiles 800x800 mm.

 Wall Finishes
 Acrylic emulsion on POP punning

 Ceiling
 Oil bound distemper.

TOILETS

 Roomg
 Antskid ceramic tiles

 Wall Finishes
 Ceramic wall tiles up to dodo level (opprox. 2400 mm)

 Celling Finishes
 Ol bound distinger with folse celling

 Counter
 Grantef Montole

 Santary Ware
 Premium quality range

STAIRCASE

 Flooring
 Kata Stone / Indian Stone

 Railings
 Painted MS. Railings / SS. Railings

 Wall Finishes
 Oil bound distemper on plaster.

Artistic ceramic ties Tiles up to 600 mm above the counter and acrylic emulsion part in the balance area Ol bound distemper with part false ceiling.

KITCHEN

Flooring / Skirting : Wall Finishes : Ceiling :

CP. FITTING AND ACCESSORIES

Grahe/Kohler/Rocc or equivalent Tolet fittings / single lever fitting in all tolets. Provision for geyser installation. Rain shower in master tolet.

LIFT LOBBY

Flooring Wall Finishes Ceiling Grante / Marbie / Tiles Grante / Marbie up to 2100 mm on the lift side wall and acrylic emulsion Paint in balance area. Oil bound distemper.

COMMON PASSAGE

Flooring Granite /hdian Marble Wall Wall Finishes Acrylic emulsion paint ceiling Ceiling Finishes Oil bound distemper.

DOORS

 Main Entrance Door
 Panted/Polished hardwood frame with sian moulded door shutters

 Internal Doors
 Panted/Polished hardwood frame with sian moulded door shutters

 Hardware
 Locks, Handles and Inobes (Mortise and Cylindrical locks) fram reputed moies and brands. High quality steel/fores hardwee.

WINDOWS AND EXTERNAL GLAZING

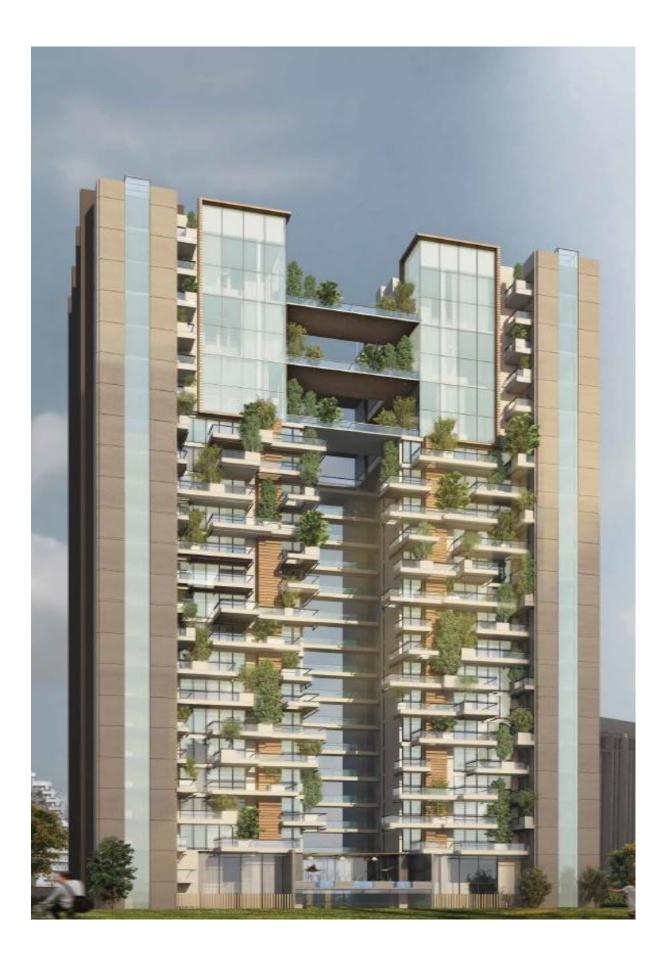
Powder coated aluminium frame or UPVC frame windows with clear glass.

EXTERNAL WALL FINISH

Exterior grade point from reputed makes and brands.

ELECTRICAL WIRING AND INSTALLATIONS

Fixtures & Fittings : Wining Plumbing Security System SI mork switches/societs, distribution baries and circuit breakers from standard incles and brands SI mark conceeded conduits with copper wire SI mark CPC water supply papes with standard valves and accessaries CCTV surveillance, EPABX.



2. PURVANCHAL KINGS COURT :-

INTRODUCTION :-

Arrive at the destination of Kings with a promise of a regal lifestyle at Purvanchal Kings Court. Lavish 3 BHK & 4 BHK Apartments at Vinamra Khand, Gomti Nagar, Lucknow are built with a futuristic vision to 'Revive Awadh's Legacy' with a construction that is both future-ready and elite.

LOCATION :-



SITE PLAN :-







SPECTFICATIONS :-

SPECIFICATION	IS FLOORS Living/Dining & Lobby within Apartment Bedrooms Balcony Kitchen & Toilets	Italian marble /Good quality Indian marble. Wooden colour tiles in master bedroom & vitrified tiles in other bedrooms. Anti-skid tiles. Anti-skid tiles.	FURVANCHAL KINGS COURT
21°	WALLS Living/Dining/Bedrooms/Passage & Lobby within Apartment	Plastic emulsion,	
	CEILINGS	Plastic emulsion, Decorative POP cornices & POP Moldings.	
en	TOILETS	Combination of good quality ceramic tiles in wall & floor. Tiles up-to 7 feet high in toilet walls. CP fittings of Jaquar/Roca/Grohe/Kahler or equivalent. Off-white/ White chinaware of Hindware / Parryware or equivalent. Provision for installation of geyser.	
	KITCHEN	 MODULAR KITCHEN - Combination of ceramic tiles in walls & floors: Tiles up-to 2 feet high above kitchen counters. Good quality granite counters. Stainless steel sink. Chimney & hob of good quality. 	
	PROVISION FOR AC	Copper pipe and water outlet pipe will be provided in each bedroom & living room so that no dismantling required during fixing of AC.	



