SHARMIN SHAIKH

ARCHITECTURE PORTFOLIO

SHARMIN SHAIKH ARCHITECT

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ABOUT ME

Industrious perceptive and individual with a will to explore my field as a responsible member of my fraternity. I admire working in challenging situations and am keen to explore varied projects.

PERSONAL INFO -

- Date of birth: 07/12/1996
- Nationality: Indian
- Passport no: M6853820
- Mariatal status: Single
- Languages: English, hindi

 Bachelors in Architecture from Mumbai University GPA: 7.20

> - THESIS WORK - Studying Energy Efficiency designing, sustainable solutions for Urban Spaces.

SKILLS -

- Presentation
- Team work
- Communal skills

Currently experienced in:

- Concepts and designing
- Site supervision
- Detailed drawings
- MEP services
- Working drawings
- BOQ's

EXPIRIENCE -

INTERNSHIP : 27/11/2017 - 05/05/2018 Intern Architect at KALPIN ECOSCAPES Principal Architect- RUPALI RAUT

Projects:

- Vardhaman Grandeur: Andheri
- Vardhaman Gardens: Thane
- Vardhaman Flora: Byculla
- ADR United-Udwada9: Vapi
- Oasis Resort: Kolad
- Farm house in Malwan

ADDITIONAL WORKS -

SOFTWARES -







CONSULTING ARCHITECT :

07/2018 - 06/2019 **Consulting Architect at LEAFYLAND With** Mr. Kanchan Mondal, Founder

Projects:

- GST Audit 2: Chruchgate
- GST Bhavan: Cuffe Parade
- Motilal Oswal: Prabhadev

ARCHITECT :

05/2019-01/2020 Architect at GLAFHS With **Risland Realtors** -The Icon : Thane

- Advanced study in Climate responsive architecture
- Research work : Sustainable habitat workshop in Auroville
- ABCM –material research , usability and adaptability and construction techniques.

EDUCATION-

COLLEGE WORKS

PROJECTS

-THE ICON VARDHMAN GRANDEUR VARDHAMAN GARDENS - KOLAD RESORT

ΤΗΕSΙS

- MASS HOUSING
- RESIDENTIAL SCHOOL
- BUS TERMINUS
 - PANELS

RESEARCH

- SERVICES - MATERIAL USE - TECHNOLOGY



ONGOING PROJECTS

THE ICON

ΤΗΑΝΕ

A perfect blend of innovation and efficiency is the project of the Icon developed by **Risland Realtors** (County Garden developers). The principles and views of the project focuses on comfortable living in the heart of the city. The Icon introduces the SSGF technology of construction in India.

The design considerations are as follows :-

- Palatial apartment designs with zero negative spaces with thoughtful interior designing for easier access.
- Convenient parking with secured society space.
- All-natural, unobstructed garden comprising of multi-dimensional layers of lawns, flowers hushes trees and accessories



Recreation Area 4. Jogging Track 5. Badminton Court 6. Kids Play Area-A 7. Swimming Pool-A 8. The Icon Club 9. Prayer Garden 10. Multipurpose 11. Kids Play Area-B 12. Stilt Clubs

PROJECT LAYOUT

SALES GALLERY

THE ICON

Plot Size: 6.88 acres

Towers Facing: E-W

Total no. of Units : 1012

Height of each floor : 3 m

Towes: 6 nos

FSI Rate: 2.45

Garden Ratio : 25%

THEICON



THE ICON



MADISON 2

Four 2 BHK Compact Four 2 BHK Luxury

SERVICES 5 Lifts 3 Passenger 1 Stretcher 1 Fire/Service











AN INTERNATIONAL LIVIN 3 2/ LLEDT

ONGOING PROJECTS





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VARDHAMAN GRANDEUR

MUMBAI

Client: Vardhman Developers

Contemporary architectural style and curvilinear elements on building façade have been extended in the landscape design. Emphasis is given to provide actively usable spaces within the availing area on ground level & passive recreation on terrace level.

Use of distinctive curve lines along with petal shaped paving pattern gives artistic impression and binds all facilities such as Jogging Track, Kids Play area, totlot & senior citizen area amidst greenery.

Central confined garden space accommodates multipurpose play court along with feature seating & Kids Play area amidst greenery. Surrounding 8.0 M high Car Parking structure is beautifully camouflaged in landscape by using Green wall & feature screen panels. Totlot & Senior citizen area is provided in shade under stilt portion ensuring security & comfort.

ROLES AND RESPONSIBILITIES :

- Preparing BOQ, market survey, quality and quantity survey.
- > Preparing working drawing, muncipal drawings, detailed drawings, MEP designing with automated systems for parking.
- Designing Landscape for the project complete with the details \geq and options.
- > Outdoor furniture design such as low cost partition wall, benches, planters and driveway.

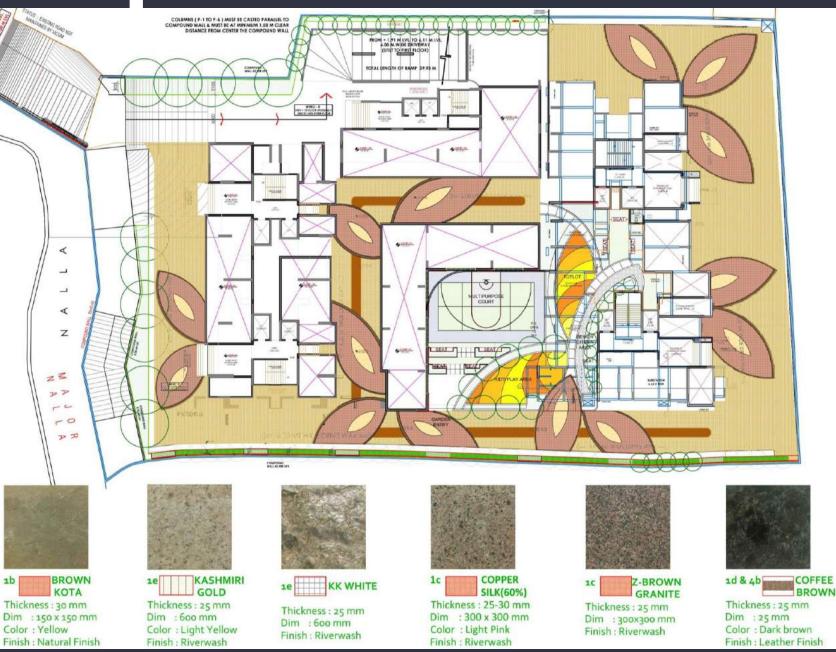
VARDHAMAN GRANDEUR

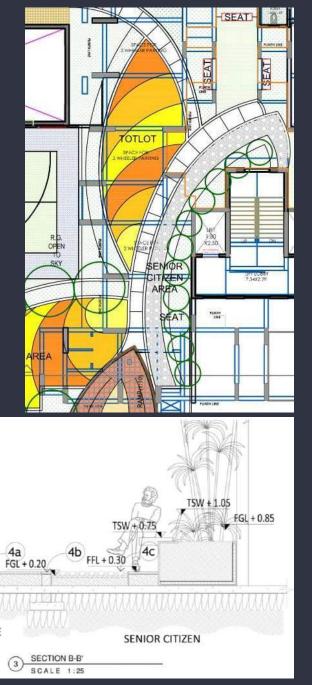
MATERIAL LAYOUT

RESEARCH:

The selection of material mainly depended on local availability, natural stones, durability, maintenance and esthetics.

- Granites, Kota stone, sandstones and EPDM for flooring.
- Concrete, CORTEN steel and Teflon are used for partitions, furniture and planters.





SEATING SECTION

VARDHAMAN GRANDEUR



- Partition wall is designed to be cost effeicient while using natural materials which are widely sustainable or low maintenance.
- The materials for totlot is EPDM flooring and the various outdoor furnitures are designed in CORTEN steel.

3.6 acres of overall master plan with scattered R.G's; which have been allocated with different usage depending on the size, location and character of the respective space. A thought has been put forth of using the existing site features while redefining the spaces to acquire a plush look.

VARDHMAN GARDENS

ΤΗΑΝΕ





VARDHMAN GARDENS



MULTIPURPOSE COURT:

contains Olympic size badminton court with timber decking for spectators. Small outdoor gym is designed amidst the lawn area for open and fresh experience.

MULTIPURPOSE COUT AT 4.25M

RECREATIONAL GARDEN:

- Contains football ground with platform for spectators.
- Stepping stone walkways for leisure walks
- Tree grooves with mounds of various heighs to replicate a more natural settling and provide peaceful and private strolls.
- An big open playground for multiple use.

CLUBHOUSE:

- The amphitheater lies in NE to the clubhouse with seating and the main entrance.
- It is adjoined by the senior citizen track which includes the pebbled path and timber platforms.

RECREATIONAL GARDEN WITH WALKWAY

Forman

DUUG





CLUBHOUSE WITH AMPHITHEATER

MASS HOUSING (OCT 2017)

15 acres of land with a capability to provide accommodations for all the income groups, while maintaining the integrity of the society, is the Mass housing project.

DESIGN CONSIDERATIONS :

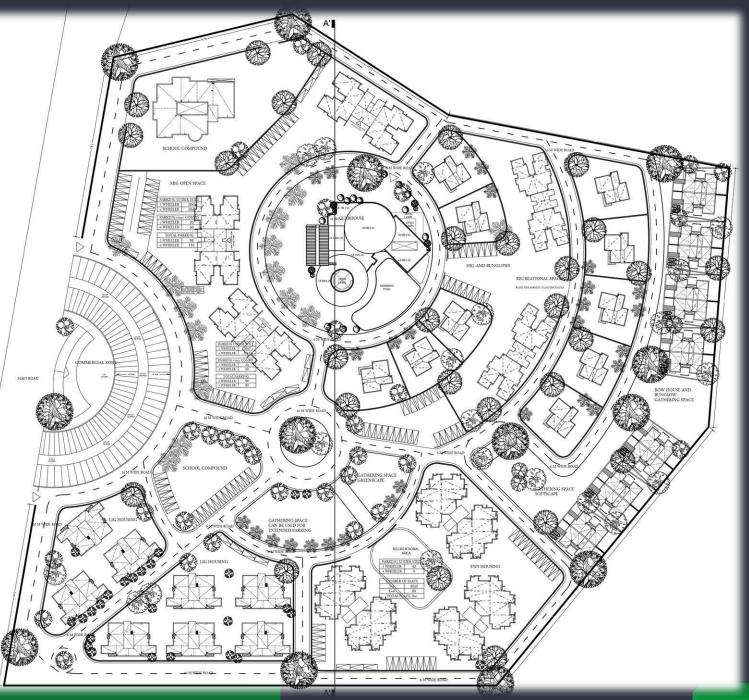
- Design based on climatology.
- **35%** more green-scape.
- Affordable housing for all income groups.
- Personalized gathering spaces for all income groups.
- Multiple chowks for easy and simplified circulations.

DESCRIPTION:

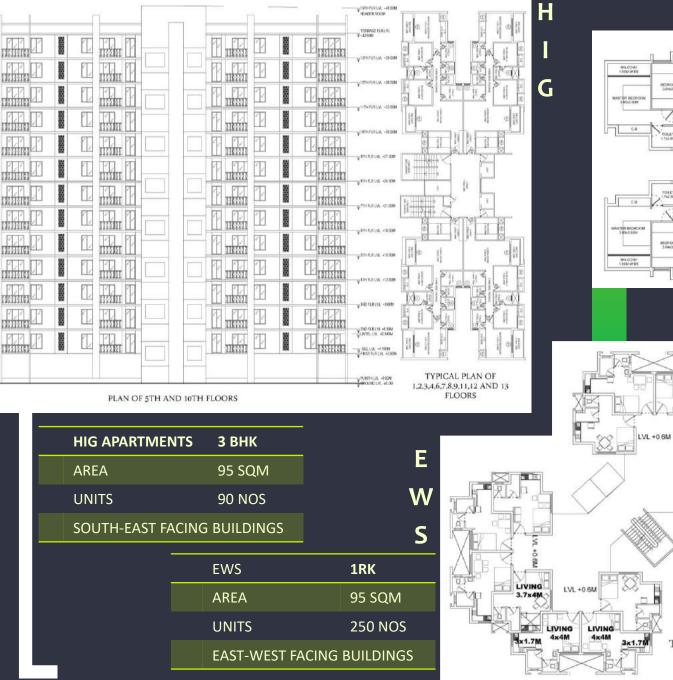
Location – Vi rar	
Total plot area	: 60,000 sqm
FSI	: 1.25
Ground coverage	: 30%

Requirements:

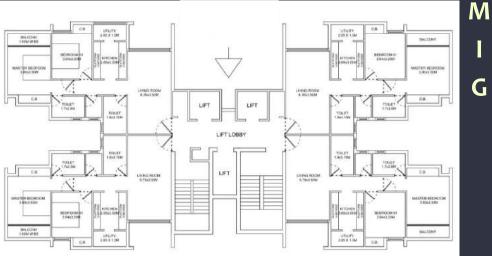
- Housing for EWS(250), LIG(150), MIG(100) & HIG(90) income groups.
- Bunglows-10 nos. and row houses-14 nos.
- Commercial(10%), clubhouse(6%), school, parking, gardens, and public gathering spaces.
- Services roads, main roads-12m wide, internal roads-7m and private roads-4m.



MASS HOUSING (OCT 2017)



SHARMIN SHAIKH



MIG APARTMENTS	2 BHK
AREA	80 SQM
UNITS	100 NOS
NORTH-EAST FACING BUILDINGS	

Requirements:

TYPICAL FLOOR PLAN

STILT + 6 FLOORS

- Housing for EWS(250), LIG(150), MIG(100) & HIG(90) income groups.
- Bunglows-10 nos. and row houses-14 nos.
- Commercial(10%), clubhouse(6%), school, parking, gardens, and public gathering spaces.
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BUILDING SERVICES

The main agenda to built a solar park is to provide a heavy number of recipionts with the renewably generated power/ electricity. Which requires a brief understanding of the working of harvesting the solar energy and converting it into the usable energy forms. The working of a solar park heavily depends on the study of working of

a solar panel, its collection, conversion, transmission and distribution. As from the observations recorded in the Gujarat Solar Park, providing services for a solar park contains more technical approach than creative.

SCHEMATICS

OVERVIEW

- LOCATION Charanka Village, Dist. Patan,
- Gujarat.
- PLOT AREA 2200 Hectare
- HUMIDITY-86% WIND - 6 kmph

COLLECTION

DISTRIBUTION

As a part of the development of the Solar Park, construction equipment and

Invariably, the trucks used to get struck in the road, hence safe accessibility to the

Existing road was upgraded to NH standard in a record time including

resources, etc., have to be moved to the site by trucks of 60 to 80 tones.

- MAX ALTITUDE 32 m (Above Seal level)

CONVERSION

TRANSMISSION

SCHEMATIC SERVICES

- I marine at

-1.0

GUIARAT SOLAR PARK

CONCEPT & WORKING

the main nponents of harvesting solar energies are photo oltaic cells, to develop electricity and solar heater, to

levelop heat energy. · When cratering a mass of varied recipients, it proves peneficial to provide the electric power which has the means to be converted into the various energy forms required in the functioning of day to day life.

In the Gujarat Solar park all the systems used and installed were of latest form.

SERVICES IN SOLAR PARK

Accessibility Water Supply

2

- Electric Supply
- Sanitation Fire Fighting

advanced sewage disposal techniques

WATER SUPPLY

There is a possibility to use the discharge well and rain water harvesting to meet 3the water supply needs. Daily requirements for water, approximately calculated, sums up to 60 Lac Itr per month.

project site was the bigstest challenge.

construction of 42 Cross drainage structures

- ELECTRIC SUPPLY In the Gularat Solar Park, 66 KV and 220 KV Sub Station along with transmission lines were commissioned by GETCO. For the proposed site a sub-station of 20 KV is adequate enough.
- provided in the Solar Park for the used for the staff as well as the visitors. The facilities provided in the Solar park are very basic in nature and they do not need to develop any In Gularat Solar park - They have built a concrete septic tank for the use in the main GPCL office services



There is no specific requirement for fire fighting in a Solar plant, but few of the equipment's requires advanced techniques for ventilation and are prone to high temperatures. Hence the prevention methods.

ity of the septic tank at GPCL main office is 2450 Ltr. Various offices also use the soak pit.

In Gujarat Solar Park :- In the inverter room at a 10 MV plant, they use the extensive ventilation technique to keep the temperature in check. It is also equipped with CO, fire extinguisher of 20 kg.

SOLAR PARK . The concept of the Solar Park is the generation of the

renewable energy to support, assist and fulfill the energy requirement of a city, town or district.

- For example, the electricity requirement of the city district of Patan, Guajarat is 17000MW per day and to facilitate in fulfilling that requirement, the Government helped setting up the Gujarat Solar Park which in current date produces 650 KW of energy and deposits it in the Gujarat state grid. Reasons for considering Solar energy
- Harvesting wind energy can proof difficult in many places in India due to the steady wind currents over major plateau based cities and states.
- Along with that, the installation of the wind mills are very expensive due to high rates for import expenses, logistics, installation and maintenance.
- Benefits of a multi-developers, multi-beneficiary Solar Park The concept of solar park demands the land use of approx.
- 750 acre.
- This land is then developed by a single developer or corporation.
- They convert the land to accommodate a number of sectors which are available for various companies or organizations to hire and install a solar plant.
- This provides the developers the opportunity of renewably progressing the city and promotes usage of renewable sources of energy.
- There are various incentives provided by the Government for these organizations. METHODOLOGY
- As the Solar Park promotes the use of renewable sources for energy generation, the approach to a more sustainable methodology of construction will appreciate the purpose of
- this project. Acknowledging the various techniques of sustainable construction also included the services which can be incorporated into the project. These services will be further discussed in the report

STRUCTURAL SERVICES **Treatment of Grey Water**

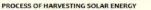
- The structure in Auroville uses the cheapest technique of grey water treatment.
- The waste water from the bathrooms washing areas, kitchens and gardens are let into an reverse osmosis tank through a filtration trap
- This allows the chemicals and other sediments to filter out from the water and the water can again be send into the usable cycle for reuse



Kitchen and Mess

- . The concept of the solar Kitchen works on the use of solar heater to cook food for a bulk mass. This concept can be used in the mess









PHOTOVOLTAIC ARRAY CONTROLLERS

In Guiarat Solar Park :- they use the various pyrometers to study the detailed minute by minute angle of incident radiation or irradiation which displays the reading in the Main Control Unit (MCU). This allows to increase the efficiency of capturing maximum Sun radiation at the best angle possible



Sanitation and Toilets

Auroville uses Soak

pit as their Sewage solution.

Along with that they

Multiple use of

septic tank and the

Organic toilets

developed

th

RELAXATION PONDS

These ponds are used for

lowering the temperature

during the summers an

Also, they use the wate

bodies for other activities like

retreating monsoons.

Mainly all

structures

have

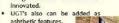
- Implying the use of run off water during the monsoon helps the occupants to cover the requirements of water use.
- Mostly the rain water harvesting tanks are built during the construction of the projects but sometimes due to funding, the architects
- develop this system during later stages like in Savitri Bhavan The estimation is that it will cover 45% of
- nents during regular more





OHT's and UGT's

The UGT and OhT required are of very basic nature but the designs of the OHTs can be





Converts DC current of 340 V to Ac current (10%-20% loss) Transformer 1 transforms 340 V current to 11 KV transformers 11 KV to 66KV CETCO Sub Station Carries the current to 66 KV and take the Gujarat State Grid

Solar Panels

Standard C Board

ontains 72 individual panels

mects all the positive - negativ

RELAXATION PONDS

- These ponds are used inclowering the temperat ure during the summers monsoons.
- Also, they use the water bodies for other activities like kot nonds. aquapuncture conds etc.







MISCELLENEOUS us options for other es which will suit with the project due ts minimal cost and



SUBMITTED TO - ANKLESH SIR DATE :- 20/ 10 /2018 SIGNATURE : REMARKS -

RESEARCH WORK ON SERVICES

TOPIC :- BIOLOGY AND ARCHITECTURE

PRESENTED BY :- SHARMIN SHAIKH

YEAR V-SEM IX













MADE IN: SKETCHUP LUMION













THANK YOU

THESIS WORK IS IN ATTACHMENT

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