

Tanvi Patil Ganorkar

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Objective

In search of a reputed institution where I can unify my abilities of environmental architecture, research, writing, teaching and management. Proficient at handling multiple tasks/projects with exceptional commitment and capable to work in a team environment.

Education

Qualification	Year	Grade	Institution	University / Board
Masters of Architecture (M.Arch) – Environmental Architecture	2016	1 st class with distinction	Dr. B.N. College of Architecture for Women, Pune	Pune University
Bachelors of Architecture (B. Arch)	2014	Higher Second Class	Sir J.J. College of Architecture, Mumbai	Mumbai University
H.S.C (12TH)	2009	79%	Essar International School, Surat	CBSE
S.S.C (10TH)	2007	80%	Nand Vidya Niketan School, Surat	CBSE

Accreditations	Indian Green Building Council Accredited Professional (IGBC AP) Green Rating Integrated Habitat Assessment Certified Professional (GRIHA CP)
Certificates	Architectural Writing by Acedge Daylight 101 by Environmental Design Solutions Building Performance Analysis Certificate by Autodesk Introduction to Net Zero energy Buildings by Environmental Design Solutions Cooling Buildings Thoughtfully by Udemy Sustainable construction in tropical humid zone by ADEME, LETCHI and PEEB Writing with confidence: writing beginner to writing pro by Udemy Pursuing “The Net-Zero First Design Studio” by Thomas Jefferson University, Philadelphia. Pursuing “Design for Greater Efficiency” offered by EGDE, IFC (International Finance Corporation)
Membership	Council of Architecture Reg No. CA/2015/69015
Software skill set	Autodesk CAD, Bricks CAD, Dialux, Ecotect, Climate Consultant, Energy Plus, IES, RET screen, MS office. Basics of Sketchup+Safeira and Photoshop

Professional Summary

1. Architectural design development and detailing for residential, commercial and institution projects.
2. Accredited Professional of IGBC (Indian Green Building Council) and GRIHA V15 (Green Rating Integrated Habitat Assessment Version 15) Certified Professional.
3. Worked on over 15 green building projects under various rating program such as: GRIHA, IGBC and ECBC.
4. Experience in working for solar passive architectural design, daylight simulations, ventilation, water management, building material resources and waste management for residential and institutional projects.
5. Conducted energy audits for projects as per rating system compliance for residential projects.
6. Experience in conducting on-site seminars for engineers and workers for them to get better understanding of rating system and its compliance requirements.
7. Worked on ECBC reports for environmental clearance.
8. Effectively monitored projects progress to maintain a healthy engagement margin.
9. Participated in MOOC on "Sustainable Construction in Tropical Humid Zone" by ADEME in partnership with LETCHI and PEEB in May 2021.
10. Participated in certificate course on Architectural writings mentored by Ar.Apurva Bose Dutta in October-November 2020.
11. Presented M.Arch thesis "Life Cycle Assessment of Monolithic Concrete Construction Technology, Pune" at ILCM 2018 (Indian Conference on Life Cycle Management) held at Mumbai.
12. Attended 3-day GRIHA workshop and GRIHA annual summit at New Delhi in December 2018.
13. Attended 2-day IGBC workshop for better understanding of rating system in April 2017.
14. Attended various online courses and lectures on Net Zero Energy Buildings; How to research and Self-development.

Career Profile

Employer	Designation	From	To
VK:e environmental LLP, Pune	Jr. Environment Architect	Jan 2018	April 2019
Origin architects, Nashik	Jr. Architect	July 2016	Jan 2017
Ecosolutions, Pune	Intern (Post graduation)	Dec 2015	Feb 2016
Environ planners, Nashik	Intern (Graduation)	Dec 2013	April 2014

Reference to prior work/assignments that best illustrates capability to handle the assigned tasks

(1/8) Name of the project: Woodsville phase 2

Typology: Residential

Rating type: GRIHA final certification

Location: Moshi, Pune

Client: Pharande Spaces

Brief description of project: Woodsville phase 2 is a residential complex of 5 buildings located on a site area of 20550 sq.m. With built up area of around 30,000 sq.m. the project has green features such as optimum orientation, energy efficient building materials, optimized glazing provision to allow daylight inside and control heat, energy efficient lighting in common areas.

- Reduction in EPI from proposed case is 82.27%.
- Solar hot water system to suffice 100% hot water requirement has been installed.
- 100% storm water run-off from roof is being recharged into the ground through recharge pits.
- Fly ash bricks have been used for building envelope construction.

Activities performed:

1. Architectural design and building services review in compliance to GRIHA norms.
2. Facilitation and Documentation of the project through the project cycle as per GRIHA – green building norms.
3. Follow up and Follow through with certifying agency, Client and other involved authorities.
4. Building energy simulations on IES software.
5. Daylight manual calculation, daylight simulations on Ecotect and artificial lighting analysis on Dialux software.
6. Hand-holding the integration of sustainable site development, water and energy efficiency, material conservation, Indoor environmental quality and other green building aspects in the project implementation.
7. Energy audit and audit report for GRIHA specified compliance.

(2/8) Name of the project: Devraai Phase 2

Typology: Residential

Rating type: 3-Star GRIHA final certification

Location: Kiwale, Pune

Client: Sanjeevan Developers

Brief description of project: Devraai phase 2 is a residential complex of located on a site area of 2125 sq.m. With built up area of around 3100 sq.m. the project received the exemplary performance award for existing building at annual GRIHA summit. With EPI reduction of 84.5%, following green features are incorporated in building:

- 51 numbers of native or naturalised species of trees were planted along the periphery of the site to enhance biodiversity.
- 34% of building water demand has been reduced against the GRIHA baseline by using measures such as installation of low flow plumbing fixtures.
- 75% of water savings was achieved in landscape water requirement due to installation of drip irrigation system.
- More than 85% of the habitable spaces in the building are day lit. Light wells were provided to facilitate adequate lighting in long and narrow passages.
- The project has installed 3 kWp capacity of solar PV panels which caters to the common area lighting requirement of the building.

Activities performed:

1. Facilitation and Documentation of the project through the project cycle as per GRIHA – green building norms.

2. Follow up and Follow through with certifying agency, Client and other involved authorities.
3. Hand-holding the integration of sustainable site development, water and energy efficiency, material conservation, Indoor environmental quality and other green building aspects in the project implementation.
4. Energy audit and audit report for GRIHA specified compliance.

(3/8) Name of the project: 56 Goldscapes

Typology: Residential

Rating type: 5-star SVAGRIHA pre certification

Location: Kothrud, Pune

Client: Ikon Project

Brief description of project: 56 Goldscapes is a redevelopment project with site area around 250 sq.m. The client was eager on involving us at very early stage to design the building in compliance to rating system. The project has been designed very thoughtfully creating ample recreational spaces and provided spacious floor space for every apartment that ensures quality of life. Use of eco-friendly and efficient technologies for the overall management of the area has ensured it to be a sustainable habitat.

Activities performed:

1. Architectural design and building services review in compliance to SVAGRIHA norms.
2. SVAGRIHA documentation and facilitation for pre certification.
3. Follow up and Follow through with certifying agency, Client and other involved authorities till award of rating.
4. Hand-holding the integration of sustainable site development, water and energy efficiency, material conservation, Indoor environmental quality and other green building aspects in the project implementation.

(4/8) Name of the project: Cloud 36

Typology: Residential and commercial

Rating type: 3-star GRIHA final certification

Location: Gansoli, Navi Mumbai

Client: GeeCee Ventures

Brief description of project: Cloud 36 is a residential complex of 3 buildings located on a site area of 10,078.92 sq.m. and built-up area 34,171.10sq.m. The project is a mixed use project with around 97% Residential and 3% Commercial development of small shops in ground level. Cloud 36 is planned as 3 residential wings; i.e. wing A, wing B and wing C and a single-storied commercial. The following strategies were adopted to reduce the building impact on the natural environment:

- 1,008 m³ top soil was preserved within the site and reused for landscaping.
- Site was screened with 3 m high barricading; wheel washing was provided for vehicles entering the site and water was sprinkled on site to control dust pollution.
- Building orientation was such that the buffer spaces like staircases & service ducts were provided towards south & west of each block.
- Reduction of 31% from the GRIHA base case has been demonstrated in building water demand by installing water efficient fixtures

- More than 75% of the total living area is day-lit EPI reduction of 81.23% from the GRIHA base case has been demonstrated through the integration of high performance systems.
- 24 Solar hot water systems each of capacity 500 liters per day have been installed in the project.
- Multi-colored bins have been provided within the building to collect and segregate waste at source. Central waste collection area has been provided for storage of segregated waste on site.

Activities performed:

1. Architectural design and building services review in compliance to GRIHA norms
2. Facilitation and Documentation of the project through the project cycle as per GRIHA – green building norms
3. Follow up and Follow through with certifying agency, Client and other involved authorities till award of rating
4. Building energy simulations on IES software
5. Daylight manual calculation, daylight simulations on Ecotect and artificial lighting analysis on Dialux software.
6. Hand-holding the integration of sustainable site development, water and energy efficiency, material conservation, Indoor environmental quality and other green building aspects in the project implementation.
7. Energy audit and audit report for GRIHA specified compliance

(5/8) Name of the project: Bhalchandra Vihar

Typology: Residential

Rating type: GRIHA pre certification

Location: Ravet, Pune

Client: Polite group

Brief description of project: This project offers 2 and 3 BHK naturally lit, ventilated and 3 side open flats. It follows eco centric design for higher energy efficiency. Few features of the project are as follows:

- Using Grass Pavers/Paving Block for Open Parking Areas
- Rain Water Harvesting System: Sustainable system to meet water demand on-site.
- Solar Water Heating System (Only for Bathrooms): Lessen the dependence on convectional power for water heating.
- Energy Efficient Common Lighting: Reduce the use of electricity and optimized utility bills.
- High Performance Glazing (Sliding Windows): Improved thermal efficiency
- Adequate Daylight & natural ventilation: Reduce home lighting and air-conditioning cost.
- Elevation to control Energy Consumption: Smart and thoughtful architecture that helps in conserving energy.
- Segregation of Dry & Wet Garbage at source: Efficient and professional waste management that has a positive ecological impact.
- Provision of Vermi-Composting Pits for Organic Waste Treatment on Site: A positive shifts towards the use of non-conventional energy.
- Provision for Sewage Treatment Plant (STP): Prevent the release of harmful waste matter into the environment.
- Reuse of Treated Water for Flushing and Landscaping: Lessen the burden on municipal water supply.

Activities performed:

1. Architectural design and building services review in compliance to GRIHA norms
2. Selection of material for walls, glass and paints
3. On site GRIHA training for engineers
4. Design recommendation report
5. Calculations for daylight and heat gain
6. Hand-holding the integration of sustainable site development, water and energy efficiency, material conservation, Indoor environmental quality and other green building aspects in the project implementation.

(6/8) Name of the project: Maharashtra National Law University

Typology: Institution

Rating type: GRIHA version 15 final certification

Location: Nagpur

Client: Government of Maharashtra

Brief description of project: MNLU, Nagpur is fully Residential University engaged in teaching and promoting research in law and allied disciplines. The project site is located in Waranga, in the Nagpur Metropolitan Area (NMA). Based on previous meetings with the project team, MNLU project aims to achieve 5-star rating under GRIHA V 2015 Rating System. The project commits to implement necessary green features during the entire phase of building construction to accomplish the desired rating. Further the project also desires to be near net zero energy and water, with net zero discharge from the site.

Activities performed:

1. Preparation of design recommendation report as a review of the Architectural and Services Design proposed for the project. It provides specific compliance requirements of GRIHA V 2015.
2. 3 day scheduled meetings and discussions with project team at Bangalore for detailed review of the project.

(7/8) Name of the project: Bhakta Nivas, Tourist Center and Multipurpose Hall at Nira Narsinhpur

Typology: Residential and commercial

Rating type: GRIHA version 15 final certification

Location: Nira Narsinhpur

Client: Maharashtra PWD

Brief description of project: Project is located on banks of river Bhima facilitates a residential place for pilgrims coming at famous Shri Lakshmi Narsimha temple situated on confluence of Bhima and Nira river. The project has shown exemplary effort in site management techniques, heritage conservation. Also the team was keen for on extraordinary workers safety and sanitation facility provision.

Activities performed:

1. Architectural design and building services review in compliance to GRIHA norms
2. Facilitation and Documentation of the project through the project cycle as per GRIHA – green building norms
3. Follow up and Follow through with certifying agency, Client and other involved authorities

4. Hand-holding the integration of sustainable site development, water and energy efficiency, material conservation, Indoor environmental quality and other green building aspects in the project implementation.
5. Feasibility study site visit with GRIHA Delhi officials. Preparation of due diligence report review and coordinating with involved teams for documenting the data.

(8/8) Name of the project: Destination Kharadi

Typology: Residential

Rating type: IGBC pre certification

Location: Pune

Client: Destination Kharadi Developers

Brief description of project: Destination Kharadi, Pune is a proposed residential project consisting of multi-dwelling units having 544 number of flats with 1BHK, 2BHK, 3BHK, 4BHK and 5 BHK on the site area of 13380.42 sq.m. The project targeted Platinum rating for pre certification.

Activities performed:

1. Architectural design and building services review in compliance to IGBC green homes norms
2. Services review and integration of energy efficiency and IGBC qualitative and quantitative compliance.
3. Building energy simulations, Day light Simulations
4. Facilitation and Documentation of the project through the project cycle as per IGBC – green building norms.
5. Follow up and Follow through with certifying agency till award of rating
6. Hand-holding the integration of sustainable site development, water and energy efficiency, material conservation, Indoor environmental quality and other green building aspects in the project implementation.

Academic Projects During Post Graduation (M.Arch 2014-2016):

1. Agricultural Training Centre at Surat, Gujarat.
2. Re-development of Alaka Square, Pune, Maharashtra.
3. Re-development of Marine drive, Colombo, Sri Lanka.
4. Retrofitting of Forest Department Building, Pune, w.r.t Energy Consumption and Conservation.
5. Designing of a Residential Complex according to GRIHA Norms.
6. Research work on Impact of religious mass gathering on environment: Case study of Simhastha Kumbha Mela, Nashik - 2015.
7. **M.ARCH. Thesis – Life Cycle Assessment of Monolithic Concrete Construction Technology in Pune.**

Academic Projects During Graduation (B.Arch 2009-2014):

Final year dissertation: 5-star Hotel at Panvel, Navi Mumbai

4th year: Redevelopment of BDD chawls at Worli, Mumbai

New design for Raja Dinker Kelkar Museum at Bavdhan, Pune

3rd year: Horticulture Institute and training center at Shirdon, Mumbai

Commercial complex at Ghatkopar, Mumbai

2nd year: Residential complex at Nashik

Club house for a residential complex

1st year: Bungalow for Director of Jawaharlal Nehru Museum at Sanchi, Madhya Pradesh

Redevelopment of Kala Ghoda present at fort, Mumbai

Competitions:

1. Participated in Green crusaders, an initiative by Rotary Club of Baroda Greens.
2. Participated in IDHA essay writing competition in 2020; essay on "*Urban Planning as a solution to climate change*".

Post-Graduation:

1. Selection of final year Thesis- "Life Cycle Assessment of Monolithic Concrete Construction Technology, Pune" for final round of **PCERF- Padmashree B.G. Shirke Vidyarthi Competition 2017** held by Pune Construction Engineering Research Foundation at Pune.
2. Selection of final year Thesis- "Life Cycle Assessment of Monolithic Concrete Construction Technology, Pune" for entry to **National Awards for Excellence in Post-Graduation Thesis in Architecture (NIASA) – 2016**
3. Submission of Research work – "Impact of Religious Mass Gathering on Environment: Case study of Simhastha Kumbha Mela, Nashik 2015" for **Avishkar 2015 - A Research Competition** by Pune University.
4. Presentation on "Re-development of Alaka Square, Pune" for **Smart Pune city** entry at inter-college level.
5. **13th IAHH International Student Design Competition – 2015**

Graduation:

1. EVOLO skyscraper Design 2013
2. Club House Design –Saint Gobain Transparence 2012
3. Transparence Student's Scholarship 2012
4. Faculty Medal Competition (In-house competition of Sir J.J. C.O.A.)
 - i. Waterfront development at Matunga (2010)
 - ii. Shipping containers used as Billing Counters (2011)
 - iii. Gendering the city of Mumbai, Walkeshwar (2012)
 - iv. Spaces between the building design proposal for meeting places (2013)

Awards

- Jury commendation at west zone in TRANSPARENCE 2012
- Selected in top 10 and called for interview for Transparence Student's Scholarship in 2012

Extra-Curricular Activities

1. Participated and stood in 3rd place in poster making competition on occasion of World Environment Day 2018 celebrated at VK:e conducted by Sustainable Initiatives.
2. Best Student in Masters in Architecture- Environmental Architecture 2014-15 and 2015-16.
3. 4 Day Joint workshop on Environmental Planning of Colombo City, Sri Lanka with students from City School of Architecture, Colombo, held at CSA, Colombo in January 2015.
4. 2 Day Joint workshop on Revitalisation of market area (Study Area: Shivaji Market, Camp, Pune) with students from Curtin University, Australia, Held at B.N.C.A., Pune in February 2015.
5. Attended 361^o Seminar through student scholarship in February 2015 and March 2013.
6. Attended Seminar and Workshop of Merino Blueprint 2010.
7. Attended workshops and Lectures conducted by Arbour Institute and Max Muller Bhavan.
8. Volunteered Brick Domes and Arches workshop.
9. Revdanda, Alibaug visit to see & Experience Organic Architectural Style House by Ar. Nari Gandhi.
10. Documentation Dept. Co-Head 2012-2013.
11. Class Representative in college from 2014 – 2016.
12. Joined Electives: Creative workshop, Origami, Organic Architecture and Lighting.

References

1. Dr. Poorva Keskar

Director, VK:e environmental LLP, Pune | Principal, SMEF's Bricks School of Architecture, Pune
pkeskar@vke-environmental.com | +91-9764535255

Dr. Poorva was my superior for 1.5 years at VK:e environmental, Pune

2. Dr. Sujata Karve

Professor Head Of Department- M.Arch- Environmental Architecture at MKSSS Bhanuben Nanavati College of Architecture (BNCA), Pune
sujata.karve@bnca.ac.in | +91-9823296945

Dr. Sujata was my HOD for 2 years while I pursued M.Arch-EA at BNCA.

3. Ar. Mahesh Bangad

Assistant Professor at MKSSS Bhanuben Nanavati College of Architecture (BNCA), Pune
mahesh.bangad@bnca.ac.in | +91-9975709665

Ar. Mahesh was my senior and mentor while pursuing M.Arch-EA at BNCA

Personal Details

Date of Birth: 2nd May 1992

Gender: Female

Languages: Marathi, English, Hindi

Marital Status: Married

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Declaration:

I, the undersigned, certify that to the best of my knowledge and belief, this resume correctly describes myself, my qualifications, and my experience.

Ar. Tanvi Patil Ganorkar