



SKYLARK APARTMENT

Moshi, Pune



SHREE PLANNING & STRUCTURAL CONSULTANTS

Engineering Safe, Sustainable, and Cost-Effective Structures

STRUCTURAL ENGINEERING PORTFOLIO

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About Us

Shree Planning & Structural Consultants is a Pune-based structural engineering consultancy led by M.Tech-qualified structural engineers, delivering structural design and detailing services across institutional, commercial, residential, and infrastructure projects in Maharashtra and Karnataka.

Our practice spans the full spectrum of structural consultancy — from multi-storey RCC framed buildings and pre-engineered steel structures (PEB) to water supply infrastructure and solar mounting structures — with a consistent focus on safety, sustainability, and cost-effective design.

From institutional campuses and medical colleges to high-rise residential towers and industrial facilities, we partner with architects, builders, and institutions to translate design intent into structurally sound, buildable reality.

250+

Residential, Commercial & Industrial Projects Completed

11+ Lakh

Sq.Ft. Built-Up Area

175+

Water Infra. Structures

45+

Solar Projects

OUR PARTNERS

Led by two M.Tech-qualified structural engineers with hands-on design experience across institutional, commercial, and residential projects.

Abhijeet R. Dhavale

M.Tech (Structures), B.E. (Civil), M.I.S.S.E.

B.E. Civil Engineering (2016) | M.Tech Structures (2019)

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M.Tech (Structures), B.E. (Civil), M.I.S.S.E.

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01

Safety First

Every design begins with a conservative, code-compliant assessment of loads and load paths — no shortcuts on life-safety.

02

Sustainable Design

Material-efficient structural schemes that reduce embodied carbon without compromising durability or performance.

03

Cost-Effective Engineering

Optimised structural systems that deliver the most economical design without sacrificing quality or safety margins.

Our Expertise

We provide end-to-end structural design and detailing services, grounded in hands-on experience across a wide range of building typologies and infrastructure works.

Structural Design & Detailing

Comprehensive RCC structural design and detailing for framed buildings, from concept through to construction drawings.

Commercial & Administrative Buildings

Bank headquarters, retail complexes and administrative buildings designed for durability and efficient use of space.

Industrial & Pre-Engineered Buildings (PEB)

Combined RCC and PEB structural systems for industrial and warehousing facilities.

Solar Structure Design

Structural design for ground and rooftop-mounted solar installations.

Institutional & Educational Structures

Medical colleges, hospitals, nursing colleges and schools engineered for specialised loading and long-span needs.

Residential Structures

Apartment towers and bungalows, from low-rise developments up to 2-basement + 15-storey high-rises.

Water Supply Infrastructure

ESRs, GSRs, jackwells, intake and supply wells, water treatment plants and approach bridges.

Site Supervision & Consultancy

On-site structural consultancy through construction to ensure design intent is faithfully executed.

OUR DESIGN PROCESS

01

Concept & Planning

Reviewing architectural drawings, site conditions, and client requirements to define the structural framework and material approach.

02

Structural Analysis

Detailed load calculations and structural analysis to arrive at a safe, code-compliant, and efficient design solution.

03

Detailing & Drawings

Preparing reinforcement drawings, bar-bending schedules, and construction-ready documentation for site execution.

04

Site Supervision

Periodic site visits during construction to verify that the built structure matches the approved design and drawings.

Sky Blue Project

Dighi, Pune | 1,65,000 sq.ft | 2 Basement + Ground + 15 Floors | Developer: Mr. Santosh Lahane



Street-level view by day, and the tower at dusk — Sky Blue Project, Dighi

A 2-basement, ground+15-storey residential and commercial tower developed by Mr. Santosh Lahane, spanning approximately 1,65,000 sq.ft. Our structural design team delivered the RCC framework for this high-rise, balancing structural efficiency with the architectural vision of a landmark residential address in Dighi.

Healthcare & Education Campuses

Buldhana District, Maharashtra | Medical, Nursing & Unani Education Campuses



Rajashree Ayurvedic Medical College & Hospital

Mehkar, Buldhana | ~1,13,000 sq.ft campus | Multi-storey academic & clinical blocks

A comprehensive campus comprising the medical college and its attached teaching hospital, engineered to support the specialised loading and long-span requirements of institutional healthcare and educational facilities.



Unani College & Hospital

Late Karima Bahu – Uddeshiya Social Welfare Society | Lonar, Buldhana | Combined ~72,425 sq.ft

Twin institutional buildings shown above — a Unani medical college (41,260 sq.ft) and its adjoining hospital (31,165 sq.ft) — structurally engineered as an integrated medical education and healthcare campus.

Lohia Mechatronik Pvt. Ltd.

Ramtekdi Industrial Area, Hadapsar, Pune | RCC: 70,000 sq.ft + PEB: 10,610 sq.ft | Basement + Ground + 6 Floors



First floor slab reinforcement prior to casting (left), and completed facility renders showing the RCC tower and attached PEB wing (right)

An integrated industrial and commercial facility combining 70,000 sq.ft. of RCC construction with a 10,610 sq.ft. pre-engineered building (PEB), rising to basement+ground+6 floors. The first floor slab shown here was designed to carry at least two CNC machines at approximately 36 kN/sq.m in the machine bays, with the remaining working area designed for a 24 kN/sq.m live load.

Rushikesh Jadhav Residence

Mehkar, Buldhana | 13,500 sq.ft | Ground + 1 Floor | Architectural Design: Anarchment Studio



Front elevation, day view — Jadhav Residence, Mehkar



Entrance porte-cochère at night, and corner elevation at dusk

A grand G+1 residence in Mehkar spanning 13,500 sq.ft, structurally engineered for a classical-style facade with deep colonnades, ornamental cornices and a porte-cochère entrance. Structural design by Shree Planning & Structural Consultants, in collaboration with Anarchment Studio for architectural design.

Residential Bungalows

Maharashtra | Individually Designed Family Residences



AKR Bungalow
Dharashiv



Pankaj Shivale Bungalow
Tulapur, Pune



Ravi Salve Bungalow
Charholi, Pune



Rohan Bhokare Bungalow
Amrawati



Sachin Katore Bungalow
Basmath, Hingoli



Santosh Lahane Bungalow
Tulapur, Pune

Women's Gym & E-Library

Dharashiv | Ground Floor Institutional Facilities



Women's Gym

Samata Colony, Dharashiv | Ground Floor Only | RCC 2,800 sq.ft + M.S. 400 sq.ft

A single-storey RCC facility for Samata Colony, Dharashiv, combining 2,800 sq.ft of RCC construction with a 400 sq.ft mild-steel canopy structure. The design's defining challenge is the 3 m cantilevered entrance canopy slab, projecting completely unsupported at the front and carried on a uniform 250 mm depth across its full span — a slenderness that demanded careful top-reinforcement detailing, root shear checks and deflection control. Unusually, the cantilever also has no back-span support at the same structural level, since the anchoring roof slab lands at a higher floor level; resolving this vertical offset while maintaining moment continuity and construction-stage stability was the key structural exercise on this project.



E-Library

Dharashiv | Ground Floor Only | 3,950 sq.ft

A 3,950 sq.ft single-storey (ground floor only) public facility in Dharashiv, structurally designed to provide open, column-efficient reading and stack areas suited to modern library planning, delivered alongside the neighbouring Women's Gym as part of our institutional works in the district.

RESIDENTIAL PROJECT

Bavne Bungalow

Lonar, Buldhana | G+1 – 2100 sq.ft.



Executed photograph (left) and 3D architectural render (right) of the same project

A G+1 residence in Lonar spanning 2,100 sq.ft, structurally engineered to support a contemporary facade with cantilevered balcony projections, full-height glazing, and a floating canopy roof at the entrance. Structural design by Shree Planning & Structural Consultants, delivered from foundation through to the completed structure shown here.

Rohan Bhokare Bungalow

Amrawati | G+1 - 5000 sq.ft.



The underside view (right) shows a grid slab — a two-way ribbed RCC slab cast as an orthogonal grid of intersecting beams rather than a solid section, letting the structure span considerably longer distances than a conventional flat slab of comparable depth. By concentrating material along the rib lines and leaving the intervening panels thin, the grid slab achieves a high stiffness-to-self-weight ratio, making it well suited to column-free spans of this scale while keeping overall dead load — and therefore foundation and framing costs — in check.

FLAGSHIP PROJECT — INSTITUTIONAL

Rajshree Ayurvedic Medical College

Mehkar, Buldhana | 65,000 sq.ft | Ground + 3 Floor | Architectural Design: Shree Planning & Structural Consultants



Onsite Ariel view — Rajshree Ayurvedic Medical College

Banking, Administrative & Industrial-Commercial

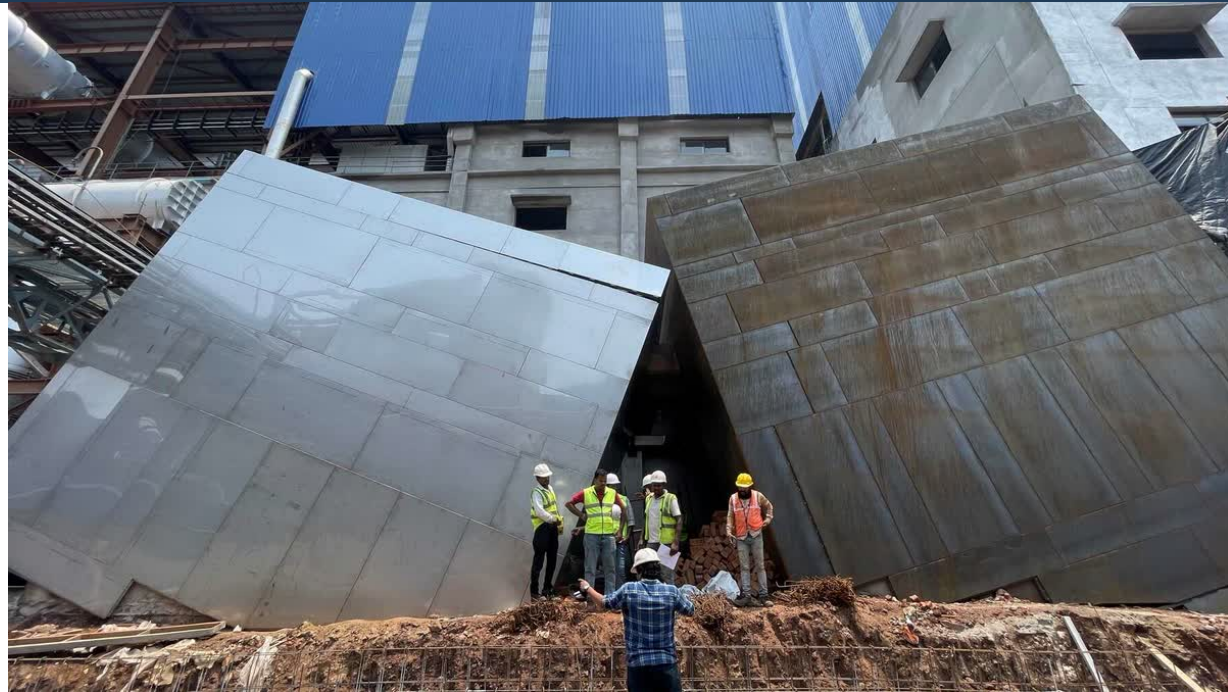
Maharashtra & Karnataka | Commercial & Administrative Buildings



Maharashtra Urban Co-Operative Bank

Buldhana | 13,500 sq.ft | Basement + Ground + 4 Floors

A basement+ground+4 storey commercial building designed for the bank's administrative and operational headquarters, balancing a compact urban footprint with the durability demands of a busy banking operation.



Control Centre, Palletizing Plant No. 2 — MSPL

Sandur, Karnataka | Commercial & Administrative Building

A control centre facility at MSPL's Palletizing Plant No. 2, designed to house critical plant operations and monitoring systems within a robust industrial-commercial structure. Delivered alongside a companion Security Block at the same facility.

Shivhari Commercial Complex

Lonar, Buldhana | 44,000 sq.ft | Ground + 3 Floors



Shivhari Commercial Complex — retail & commercial development, Lonar

A 44,000 sq.ft. ground+3 storey retail and commercial complex, structurally designed to accommodate large open retail floor plates and multi-tenant commercial layouts.

Roads, Water Intake & Industrial Sheds

Maharashtra | National Highway Works, Industrial Sheds & Water Intake Structures



Box Culvert — Link Road on NH361

Patoda, Tuljapur–Latur Road | National Highway Works

A reinforced concrete box culvert built as part of link road works on National Highway NH361, engineered to safely carry highway traffic loads over the culvert structure.



Industrial Shed with Basement Godown

Shirwal MIDC, Pune | RCC 5,500 + PEB 5,500 sq.ft

A small and medium scale industrial shed with a basement godown for raw material storage, combining conventional RCC construction with a pre-engineered building (PEB) structure.

Jackwell for Bharat Forge Ltd.

Mula-Mutha River, Pune | Water Intake Infrastructure

A jackwell structure built on the Mula-Mutha river for Bharat Forge Ltd., engineered to support critical water intake infrastructure for industrial operations.



Project Directory

A comprehensive record of our completed and ongoing structural design assignments across Maharashtra and Karnataka.

Institutional Projects

PROJECT	LOCATION	AREA / CONFIGURATION
Late Karima Bahu – Uddeshiya Social Welfare Society's Unani College	Lonar, Buldhana	41,260 sq.ft
Late Karima Bahu – Uddeshiya Social Welfare Society's Unani Hospital	Lonar, Buldhana	31,165 sq.ft
Rajashree Shahu College of Nursing	Washim	34,930 sq.ft
Rajashree Ayurvedic Medical College & Hospital	Mehkar, Buldhana	1,13,000 sq.ft

Commercial & Administrative Projects

PROJECT	LOCATION	AREA / CONFIGURATION
Maharashtra Urban Co-Operative Bank – Commercial Building	Buldhana	13,500 sq.ft (B+G+4)
Shivhari Commercial Complex	Lonar, Buldhana	44,000 sq.ft (G+3)
Women's gym	Dharashiv	RCC 2,800 sq.ft + MS 400 sq.ft (G)
Mahsul Bhavan at Sindhkhed Raja	Sindhkhed, Jalna	39,000 sq.ft (G+2)
D. L. Empire Medicare Storage & Administrative Building	Hadapsar, Pune	78,000 sq.ft (B+G+4)
Control Centre at Palletizing Plant No. 2, MSPL	Sandur, Karnataka	RCC 4,200 sq.ft + MS
Security Block at Palletizing Plant No. 2, MSPL	Sandur, Karnataka	RCC 4,150 sq.ft. + MS 1,500 sq.ft (Security Gate)
E-library	Dharashiv	3,950 sq.ft (G)

Event & Public Utility Spaces

PROJECT	LOCATION	AREA / CONFIGURATION
Shree Mangal Karyalaya	Lonar, Buldhana	RCC 31,600 sq.ft + PEB 14,250 sq.ft
S. S. Highschool	Lonar, Buldhana	20,000 sq.ft (G+4)
PHC Subcentres – Kakrambha & Itkal	Dharashiv	8,600 sq.ft each (G+2)

Residential Apartments & Bungalows

PROJECT	LOCATION	AREA / CONFIGURATION
Skylark Apartment	Moshi, Pune	54,000 sq.ft (B+G+7)
Sky Blue Project	Dighi, Pune	1,65,000 sq.ft (2B+G+15)
Raut's Apartment	Washim	24,000 sq.ft (B+G+4)
Mayur Pawar's Apartment	—	17,000 sq.ft (B+G+4)
Pawan Mangalkar Latur Apartments	Latur	8,000 sq.ft (P+4) & 12,000 sq.ft (P+5)
Suhasini Pawar	Jawhar	6,700 sq.ft (G+3)
Swara Girls Hostel	Wagholi, Pune	8,800 sq.ft (P+5)
Kedar Dalavi Bungalow	Sus, Pune	7,216 sq.ft (G+3)
Rushikesh Jadhav Residence	Mehkar, Buldhana	13,500 sq.ft (G+1)
Pradeep Sarkar Bungalow	Rajewadi, Jawhar, Palghar	9,850 sq.ft (LG+G+2)
Laxman Wadekar Apartment	Hinjewadi, Pune	37,300 sq.ft (B+G+9)
J. S. Sawant Apartment	Wagholi, Pune	15,000 sq.ft (P+5)
Prakash Apartment	Kusgaon Bk., Lonavala, Pune	13,000 sq.ft (B+G+2)
Patel Apartment	Sambhajinagar	32,000 sq.ft (B+G+5)
Dr. Ovar Bungalow	Mehkar, Buldhana	8,000 sq.ft (G+3)

Industrial Projects

PROJECT	LOCATION	AREA / CONFIGURATION
Small & Medium Scale Industrial Shed with Basement Godown	Shirwal MIDC, Pune	RCC 5,500 sq.ft + PEB 5,500 sq.ft
Lohia Mechatronik Pvt. Ltd. – Industrial & Commercial Building	Hadapsar, Pune	RCC 70,000 sq.ft + PEB 10,610 sq.ft (B+G+6)

Box Culverts — National Highway Works

PROJECT	LOCATION	AREA / CONFIGURATION
Box Culvert – Link Road on NH361	Patoda, Tuljapur–Latur Road	National Highway Works
Box Culvert – Link Road on NH48	Karla, Mumbai–Pune Old Highway	National Highway Works

Water Supply Infrastructure Projects

Spread across districts of Pune, Satara, Akola, Buldhana, Dharashiv, Latur and Hingoli — Maharashtra & Karnataka, including a jackwell for Bharat Forge Ltd. on the Mula-Mutha river, Pune.

Elevated Storage Reservoirs (ESR)	~110 nos.
Jackwells	5 nos.
Intake Wells	5 nos.
Inspection Wells	3 nos.
Supply Wells	36 nos.
Approach Bridges	4 nos.
Ground Storage Reservoirs (GSR)	9 nos.
Recycling Sumps	2 nos.
Sump & Pump Houses	2 nos.
Package Water Treatment Plants (WTP)	2 nos.

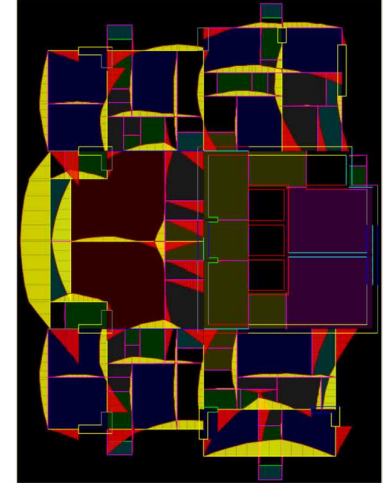
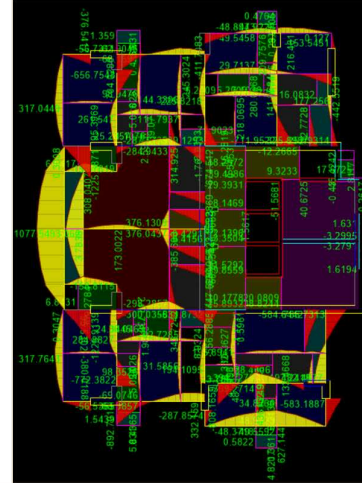
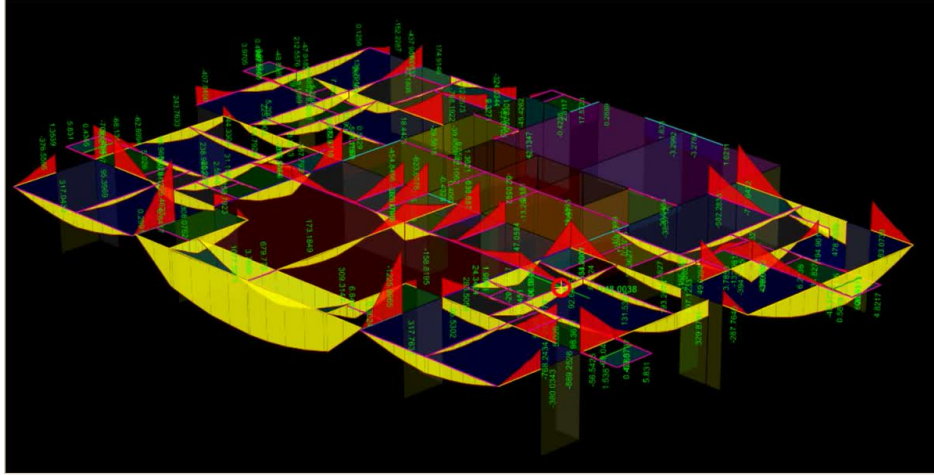
Solar Projects

45+ installations spread across the districts of Pune, Mumbai and Dharashiv.

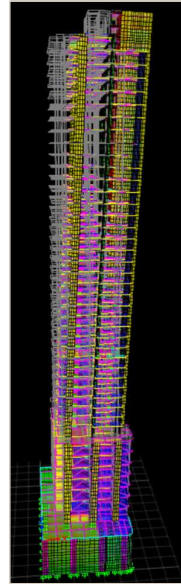
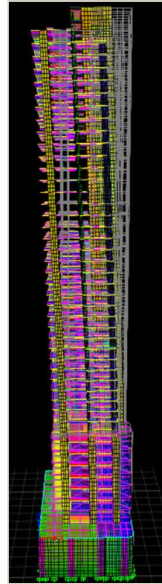
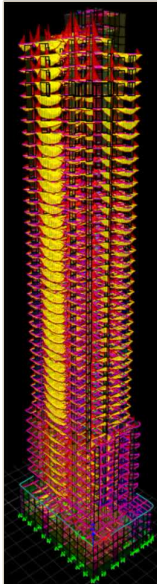
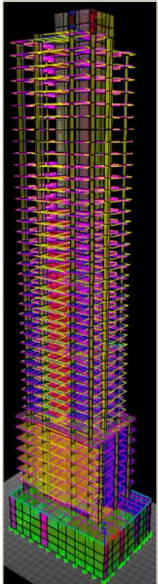
Anchor Sky

Dadar, Mumbai | Client: Anchor Reality | 4 Basement + Ground + 6 Podium + E-Level + 34 Residential Floors

Full 3D structural model of Anchor Sky in ETABS, capturing the complete basement-to-roof framing



Building massing (left) alongside ETABS 3D model views of the tower and podium framing

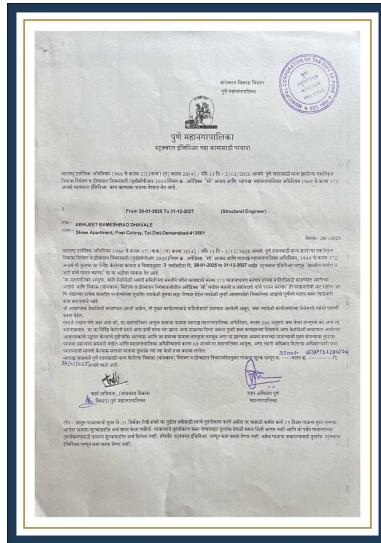


Anchor Sky is currently under structural design in ETABS for our client Anchor Reality, modelled as a complete basement-to-roof RCC frame comprising 4 basements, a ground level, a 6-storey podium, an amenity (E) level, and 34 residential floors above — a total height that places lateral stability, not just gravity framing, at the centre of the design. The full 3D model captures every column, beam, shear wall and slab, allowing the lateral load-resisting system to be verified together with the gravity system rather than in isolation. For a tower of this height, wind response governs much of the design: the first mode shape is used to establish the building's fundamental sway period, while the gust deflection profile plots lateral drift up the full height of the tower under wind gust loading, checked against code-permissible inter-storey drift and overall sway limits to keep occupant comfort and structural serviceability within safe bounds.

Model elevation, bending moment diagram, first mode shape (centre), and wind-gust deflection profile in X-direction (left to right)

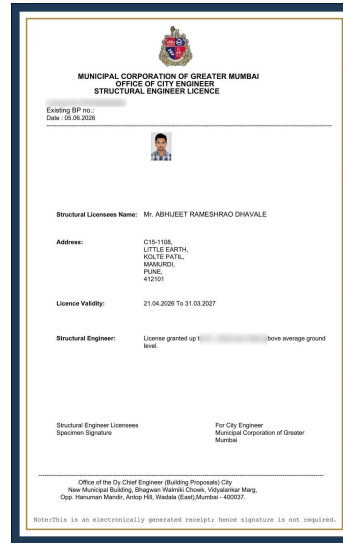
Licenses & Registrations

Both partners hold active structural engineer licenses issued by municipal authorities, and are life member / member of the Indian Society of Structural Engineers (ISSE).



Abhijeet R. Dhavale

Pune Municipal Corporation — License No. 937



Abhijeet R. Dhavale

MCGM — License No. STR:840035390



Ajinkya K. Mapari

Pune Municipal Corporation — License No. 800



Abhijeet R. Dhavale

ISSE Life Member — LM-2095



Ajinkya K. Mapari

ISSE Member

Key Clients

A selection of the developers, industrial groups, government bodies, institutions, and design partners we've had the privilege of working with.



INDUSTRIAL & MANUFACTURING



GOVERNMENT & PUBLIC SECTOR



REAL ESTATE



INSTITUTIONAL & EDUCATION



IT & CORPORATE



RENEWABLE ENERGY



ARCHITECTS & DESIGN



Let's Build Something Lasting, Together

Engineering Safe, Sustainable, and Cost-Effective Structures

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