



NOVEL-S
DESIGN MATRIX

STRUCTURAL DESIGN

ABOUT US

Novel-S Design Matrix Pvt. Ltd., Consultants is multidisciplinary Engineering & Building services consultancy company, which offers Engineering Design, Estimation, Project Planning, Tendering, Construction Drawing, Periodic Site Supervision, Quantity Surveys etc.,

VISION

To be a leading Consultant offering innovative and cost effective project design services for Structural Engineering in the fields of Multi storied buildings Apartments and office complexes, Software Technology parks, Commercial complexes, Hotel projects, Hospital, Sport complexes, large Industrial Structures, Townships and Infrastructure projects etc.

OUR CORE VALUES

– Design Excellence

We will deliver extraordinary and quality design and strive to be recognized in the competitive market for our innovative solutions.

– Focus On Results

We will deliver results that are timely, fulfill quality specifications and remain within the budget for all our projects.

– Integrity

We will serve our customers and deliver on our promises by conducting our services in principle centered and ethical manner.

OUR TEAM



Dhruvaraja Iyengar
Managing Director &
Principal Structural
Engineer

– B.E. Civil, M.E. Structures
– 28+ years of Experience in India
& Abroad



Natesh
Associate Director
(Structures)

– B.E. Civil, M.E. Structures
– 23+ years of Experience

OUR SERVICES

STRUCTURAL DESIGN

It is to understand, predict, and calculate the stability, strength and rigidity of structures.

It is to find out safe and economical specifications for a structure or a member of the structure sufficient to carry the load. It is to develop functional & safe designs and integrate it with that of other designers and with construction at site. Structural engineering design utilizes a number of relatively simple structural elements to build the complex geometry of structures. Structural engineers are responsible for engineering design, structural analysis and integrity of the entire system, and for making creative and efficient use of funds and materials. The complexity of modern structures often requires a great deal of creativity from the engineer in order to ensure the structures support and resist the loads to which they are subjected to.

PROOF CHECKING OF STRUCTURAL DESIGN

For projects of very important nature, structural design scrutiny /proof checking are very essential.

The Proof checking services include:

- Scrutiny of tender drawings, documents and technical specifications.
- Checking Structural design and drawings for:
 - Compliance with tender documents and technical specifications.
 - Compliance with design standards.
 - Conformity between analysis, design and drawings
 - Clarity of details and drawing with respect to ease of construction at site
- Submission of peer review report

VALUE ENGINEERING

Structural value engineering helps to bring down the project cost to a great extent with a focus always on to design a safe and yet economical structure.

Value engineering is the ratio of performance of the structure to its cost. Value can therefore be increased by either improving the function or minimising the cost. For structures, the desired performances are defined by design standards and hence value engineering primarily aims at achieving the equivalent performance with minimum cost.

This is achieved by,

- Adopting alternative structural materials for optimum use of material strength
- Proposing innovative /alternate structural solutions or systems

REPAIR AND REHABILITATION

For structures in deteriorated and distressed condition, or change in the intended use of the structure, /Changes in seismic zones, /Changes in prevailing codes, or /adding extra floors etc., design services are offered to repair and rehabilitation system to strengthen the structure to a state that comply with the design standards.

This includes:

- Study of existing structural system and evaluation of present strength of various structural elements through various NDT methods.
- Preparation of analysis and design calculations required to decide necessary strength requirement of various elements.
- Design and detailing of restoration system for deficient elements.

OUR PROJECTS



VEGA CITY MALL, TAJ GATEWAY

Bannerugatta Road, Bangalore

Clients: **BLUE HORIZON HOTELS PVT. LTD.**
Architects: **PRAGRUP, BENTEL ASSOCIATES, & EDIFICE**
Size: **11,00,000 SFT, 5 BASEMENTS +G+7 FLRS (13 FLOORS)**
Date: **SEP 2009**

MANTRI ARENA MALL

Kanakapura Road, Bangalore

Clients: **MANTRI DEVELOPERS**
Architects: **BENTEL ASSOCIATES**
Size: **13,00,000 SFT, 2 BASEMENTS +G+7 FLRS**
Date: **ONGOING**



SRIRAM SYMPHONYE

Off Kanakapura Road, Bangalore

Clients: **SHRIRAM PROPERTIES**
Architects: **SHOP DESIGN**
Size: **5,75,000 SFT, 1 BASEMENT +G+12 FLRS**
Date: **2009**

ICON NORTH

Thanisandra, Bangalore

Clients: **G-CORP HOMES PVT LTD**
Architects: **ARCOP ASSOCIATES PVT LTD**
Size: **30,00,000 SFT, 2 BASEMENT +G+18 TO 28 FLRS**
Date: **ON GOING (5 TOWERS COMPLETED)**



OUR PROJECTS

DLF MAIDEN HEIGHTS & WOODLAND HEIGHTS

Rajapura, Bangalore

Clients: **DLF HOMES**

Architects: **ARCOP ASSOCIATES PVT LTD**

Size: **20,00,000 SFT, STILT +G+12 FLRS**

Date: **2012**



HM WORLD CITY (TOWERS A1 TO A7)

Off Kanakapura Road, Bangalore

Clients: **HM CONSTRUCTIONS**

Architects: **SHOP DESIGN**

Size: **10,00,000 SFT, BASEMENT +G+14 FLRS**

Date: **ONGOING (NEAR TO COMPLETION)**

NITESH CAPE COD

Bellandur Road, Bangalore

Clients: **NITESH ESTATES LIMITED**

Architects: **AECOM**

Size: **9,00,000 SFT, 2 BASEMENTS +G+13 FLRS**

Date: **ONGOING (NEAR TO COMPLETION)**



SPECTRA PALMWOODS

White Field, Bangalore

Clients: **SPECTRA CONSTRUCTIONS PVT LTD**

Architects: **C & T**

Size: **6,00,000 SFT, 1 BASEMENT +G+14 FLRS**

Date: **2015**

OUR PROJECTS



MANTRI SERENE

Pallavaram, Chennai

Clients: **MANTRI DEVELOPERS**

Architects: **EDIFICE**

Size: **6,00,000 SFT, 1 B +S+P+15 FLRS**

Date: **ON GOING (2 TOWERS COMPLETE)**

SLV CENTRAL PARK

White Field, Bangalore

Clients: **SLV INFRASTRUCTURES**

Architects: **DSK ARCHITECTS**

Size: **6,00,000 SFT, 2 B +G+12 FLRS**

Date: **ON GOING**



MANTRI CORNERSTONE OFFICE 2 & 3

Indiranagar, Bangalore

Clients: **MANTRI CORNERSTONE HOLDINGS PVT LTD**

Architects: **THOMAS ASSOCIATES**

Size: **14,00,000 SFT, 3 B +G+15 & 12 FLRS**

Date: **ON GOING**

AFRICA LIMITE

Kinshasa, Africa

Clients: **GB Villa & Limite Project**

Architects: **Arcop Associates**

Size: **G+1 FLOORS**

Date: -



OUR PROJECTS

MANTRI WEBCITY 3

Hennur Road, Bangalore

Clients: **MANTRI DEVELOPERS PVT LTD**

Architects: **RSP**

Size: **15,00,000 SFT, 1 BASEMENT +G+17 FLRS**

Date: **2016**



PEER REVIEW - MANTRI SERENITY 1, 3 & 6

Kanakapura Road, Bangalore

Clients: **MANTRI CASTLES PVT LTD**

Size: **22,51,628 SFT, 3 BASEMENT +G+22 /23 FLRS**

Date: **2016**

PEER REVIEW - MANTRI ENERGIA 5 & 6

Hennur Road, Bangalore

Clients: **MANTRI DEVELOPERS**

Size: **12,50,000 SFT, 2 BASEMENT +G+32 /33 FLRS**

Date: **2016**



INDUSTRIAL BUILDING FOR MPP

Tumkur

Clients: **MPP**

Architects: **NIYANTHA**

Size: **1,00,000 SFT, 1 BASEMENT +G+2 FLRS**

Date: **2009**

OUR PROJECTS



COLUMBIA ALTIUS

Electronic City, Bangalore

Clients: **COLUMBIA DEVELOPERS PVT. LTD**

Architects: **RSP**

Size: **3,00,000 SFT, 3B+G+39 FLOORS**

Date: **ON GOING**

HOTEL FOR ACCOR GROUP

Kinshasa, Africa

Clients: **ACCOR GROUP**

Architects: **ARCOP ASSOCIATES**

Size: **75,000 sft, BASEMENT+GROUND+7 FLOORS+TERRACE WITH POOL & GYM**

Date: **ON GOING**



HOTEL FOR ACCOR GROUP

Lubumbashi, Africa

Clients: **ACCOR GROUP**

Architects: **ARCOP ASSOCIATES**

Size: **85,000 sft, BASEMENT+GROUND+7 FLOORS+TERRACE WITH POOL & GYM**

Date: **ON GOING**

OUR CLIENTS



CONTACT US

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