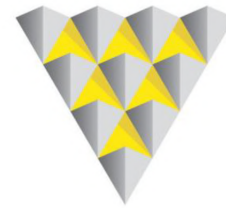


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PRIVATE LIMITED

MERSEN INDIA Pvt.LTD,  
Hosur Rd, Bommasandra  
B.U.A. = 1,84,050 sft



INDUSTRIAL PROJECTS



## INDUSTRIAL PROJECTS



BALDWIN INTERNATIONAL SCHOOL  
Kalyan Nagar, Bengaluru  
B.U.A - 95,000 sqft



BALDWIN Co-Education School,  
Rajajinagar, Bengaluru  
B.U.A. = 35,000 sqft

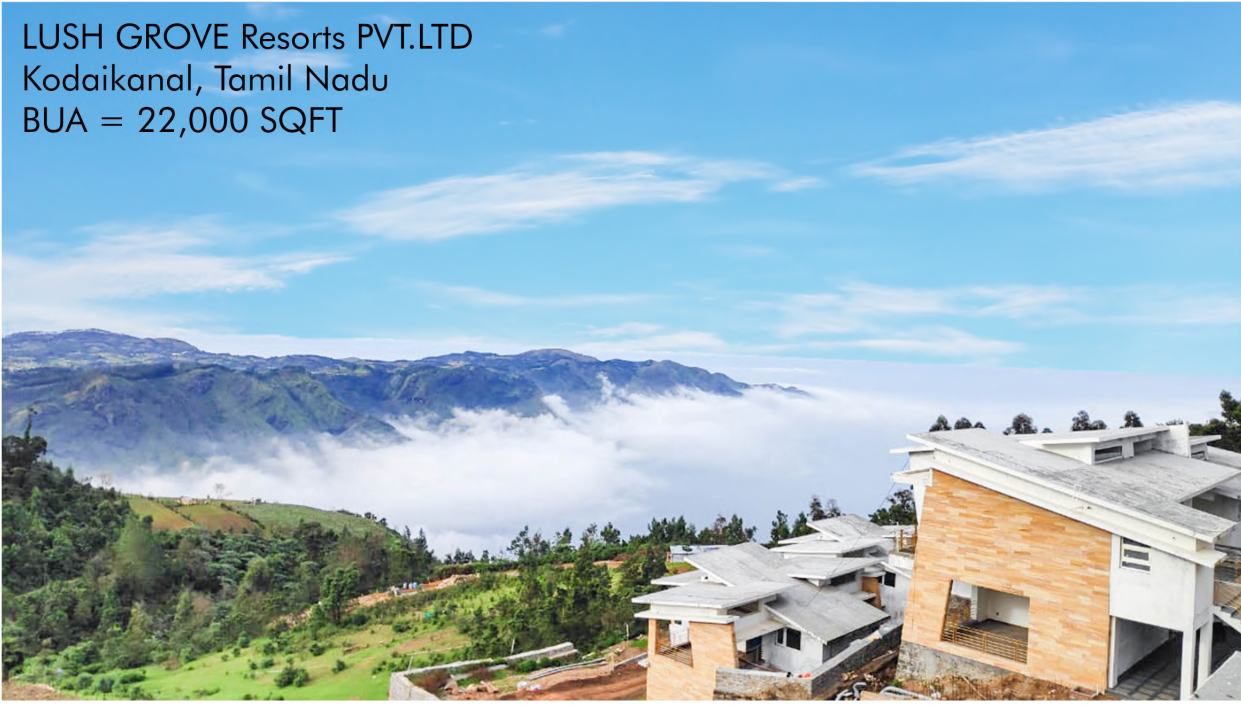


INSTITUTIONAL PROJECTS

ANANTHA VIDYANIKETHAN SCHOOL,  
Devanahalli, Bengaluru  
B.U.A. = 1,10,000 sqft



LUSH GROVE Resorts PVT.LTD  
Kodaikanal, Tamil Nadu  
BUA = 22,000 SQFT



HOSPITALITY PROJECTS



Commercial Buidling at  
Kammanahalli, Bengaluru  
B.U.A = 7,500 sqft



Commercial Space at  
Yelahanka  
B.U.A. = 1,00,000 sqft



Featherlite,  
Outer Ring Rd, BLR

Commercial Building  
at Kalyan Nagar,  
Bengaluru  
B.U.A. = 7,800 sqft



Commercial Building  
Kalyan Nagar, Bengaluru  
B.U.A = 27,700 sqft





Hi-Tech AURIGA  
Sanjaynagar, Bengaluru  
B.U.A = 9,000 sqft



Apartment in Sanjaynagar  
Bengaluru  
B.U.A = 8,600 sqft



Proposed Apartment  
Bengaluru  
B.U.A. = 67,800 sqft



Hi-Tech Apartment,  
Sanjaynagar, Bengaluru  
B.U.A. = 11,000 sqft



SLV Apartments,  
Sanjaynagar, Bengaluru  
B.U.A. = 14,500 sqft



RESIDENCIAL APARTMENT PROJECTS

Residence in  
Swiss Town, Bengaluru  
B.U.A = 3,100 sqft



Residence in Dollars Colony,  
Bengaluru  
B.U.A. = 3,500 sqft



RESIDENCIAL PROJECTS

Residence in  
Koramangala  
Bengaluru  
B.U.A = 4,800 sqft



Residence in V.V.Nagar  
Bengaluru  
B.U.A. = 4,280 sqft



Residence at Ferns Meadows  
Bengaluru  
B.U.A. = 5,600 sqft



RESIDENCIAL PROJECTS

Client : Mrs.Latha & Mr.Shiva,  
Swiss Town, Bengaluru  
B.U.A. = 5,200 sqft



Client : Mr. Muthu Kumar,  
Tanjavur, Tamil Nadu  
B.U.A. = 4,600 sqft



Residence in Trissur, Kerala  
B.U.A. = 3,900 sqft



Client : Mr. Narayanswamy,  
Devanahalli, Bengaluru  
B.U.A. = 8,280 sqft



## RESIDENCIAL PROJECTS



Farmhouse  
Devanahalli, Bengaluru  
B.U.A = 2,160 sqft

Residential Project,  
Pune, Maharashtra  
B.U.A = 4,600 sqft



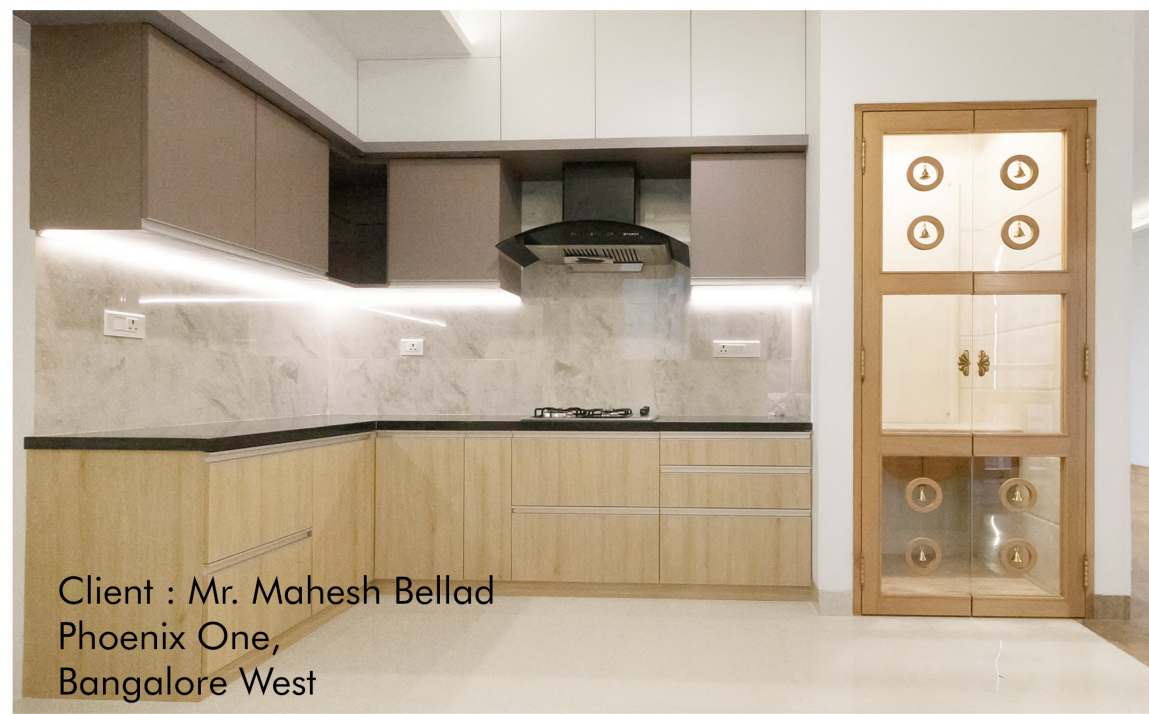
POSED 3D VIEW FOR DR. BHOOCHAND ZADE PUNE

## RESIDENTIAL PROJECTS

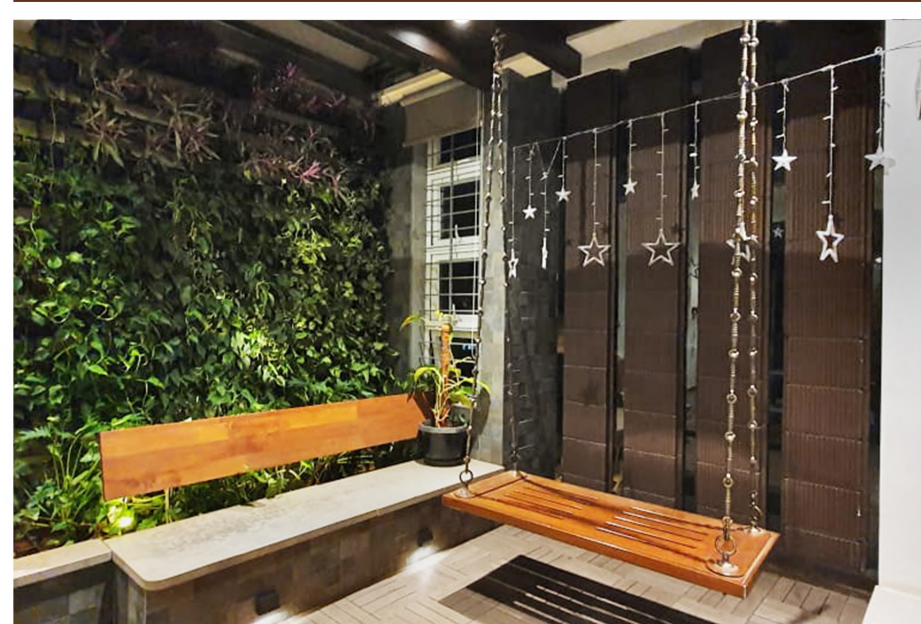
Client : Mr. Shivanand  
Phoenix One,  
Bangalore West



Client : Mr. Mahesh Bellad  
Phoenix One,  
Bangalore West



Client : Mrs.Uma,  
Bengaluru  
B.U.A = 7,800 sqft



Hi-Tech Penthouse Interior  
Bengaluru  
B.U.A = 1,600 sqft



Client : Mr. Shekarappa  
Bengaluru



Client : Mr. Sandeep Prawara  
Bengaluru

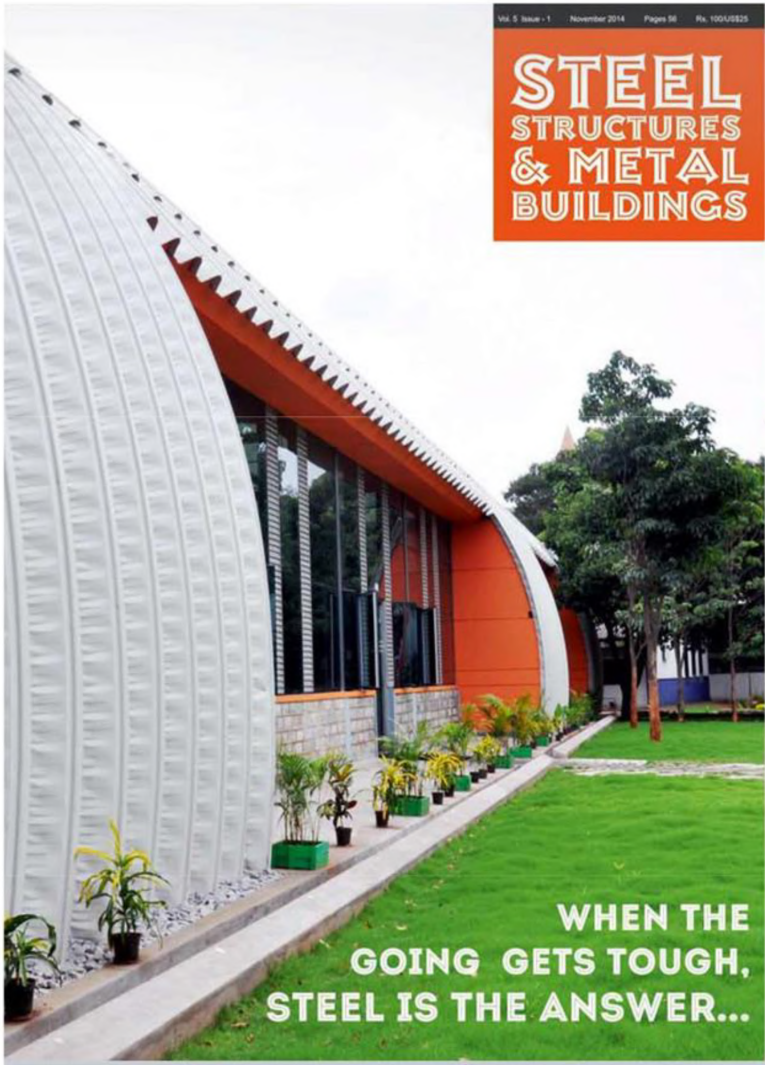


Client : Ms. Sakshi Gupta  
Bengaluru



Client : Mr. Narayanswamy,  
Devanahalli, Bengaluru





Vol. 5 Issue - 1 November 2014 Pages 98 No. 1004/0225

# STEEL STRUCTURES & METAL BUILDINGS

**OPUS ARCHITECTS**

## ACCOLADES

COVER FEATURE

### MERSEN INDIA CAMPUS BANGALORE

building around instead of building on



**FAST FACTS**

CLIENT  
Merzen India Pvt Ltd, Bangalore

ARCHITECT  
Opus Architects

Steel Supplier  
Proflex Systems

FABRICATOR  
Praying Engineering

STRUCTURAL CONSULTANT  
DCCA

**CLIENT**  
Merzen India Pvt Ltd, Bangalore

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Opus Architects

**Steel Supplier**  
Proflex Systems

**FABRICATOR**  
Praying Engineering

**STRUCTURAL CONSULTANT**  
DCCA

**WHEN THE GOING GETS TOUGH, STEEL IS THE ANSWER...**

**PROJECT: MERSEN INDIA PVT LTD. BOCK PLANT, BANGALORE  
COVER STORY FOR SSMB MAGAZINE NOVEMBER 2014 ISSUE**

COVER FEATURE

The real Big Idea came from Building Around instead of Building On the old structure. And that's exactly what architects did liberally in all 3-dimensions

**ARCHITECT SUSHY GHORABARA**  
Principal, Opus Architects

The Black Plant Building at the Merzen India campus has been a critical, challenging and a satisfying experience for team Opus. Although the building was pre-engineered and engineered, the construction process was a walk into the unknown. The team had to interpret conditions, to set worked around the existing old building and need to see there were many surprises. The building is in many ways an expression of Opus' 'The Bold Form, especially with the curved facade was intended to 'Make a statement' and 'Make the ground'. It also forms a gentle and humane extension of the curved self supporting roof form that gently bends the weight of the building to the ground. The use of glass on the gables and large windows, and the fact that the steel components of the building were prefabricated and then integrated together is further attribute to it's Color being

**The Big Idea**  
Conceptually, replacement of an old structure would involve demolition, clearing debris and reconstruction of new building or structure. The way simply not possible as most machines could not be moved as would have been the case of the new building. For the existing process was on how does one do this? The real Big Idea came from Building Around instead of Building On the old structure. And that's exactly what the architects did liberally in all 3-dimensions. The building has a total area of 1.5 million sq. ft. which is built on a 1.5 million sq. ft. plot.

**Architectural Features**  
As an innovative facade form was sought, the project architect Opus Architects proposed an architectural form for the building, as a form of an overall wing extending from the existing building. The challenge was to provide a V&T to the structure and quality of performance at Merzen India.

For the Opus Architects Team, this has been a very challenging and a very satisfying build. This project was awarded to Opus Architects by the client Merzen India Pvt Ltd. The project was awarded to Opus Architects by the client Merzen India Pvt Ltd. The project was awarded to Opus Architects by the client Merzen India Pvt Ltd.

**Program/Construction**

- Machine room and structural rehearsal
- Foundation of the old building and provision

**Why Steel**  
Steel was the obvious solution. This would mean that all the columns, beams, to be used could be prefabricated, delivered and simply brought to site and installed without disturbing production of the building. The building's self-supporting roof system provided the best strength for the large volume. The roof could be installed without tension, or lighting, but joint and provided a joint line across the large span of 120 meters. This was possible because of unique ability among other typical machine structures to carry weight.

**Building's Challenge**  
The central was awarded to the process of the self supported roof system. It was a challenge to build around the existing building. The roof was a curved self supporting roof form that gently bends the weight of the building to the ground. The use of glass on the gables and large windows, and the fact that the steel components of the building were prefabricated and then integrated together is further attribute to it's Color being

COVER FEATURE

**GIRISH PATEL**  
Managing Director, Proflex Systems

Proflex rose to the challenge and managed Opus Architects started fabricating the big idea. The concept of Self Supported Steel Roofing does not require any support of pillars, trusses or rafters, often underlaid clear spans up to 120 meters and larger enclosed volumes, which could be installed in few weeks, the general solution, but not providing the full solution in the construction of factories, shops and warehouses. Because it offers solution of higher clear clear height and architectural movement of equipment, machines and goods.

**Engineering Concepts**  
Now came the actual installation stage, which Proflex encountered another critical challenge. Usually, the roof panels would be installed in a conventional way, but in this proposed building. This makes it easy to lift the very large span panels and place them with precision on the two edge gables. The challenge here at Merzen India was that given the self-supporting building was to be built, the steel had to be the same installation as in

Proflex rose to the challenge and managed Opus Architects started fabricating the big idea. The concept of Self Supported Steel Roofing does not require any support of pillars, trusses or rafters, often underlaid clear spans up to 120 meters and larger enclosed volumes, which could be installed in few weeks, the general solution, but not providing the full solution in the construction of factories, shops and warehouses. Because it offers solution of higher clear clear height and architectural movement of equipment, machines and goods.

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The steel solution was better than that of a pre-engineered structure as the building was to be built on the old structure. The steel solution was better than that of a pre-engineered structure as the building was to be built on the old structure.



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and Research Center



St. Clare School



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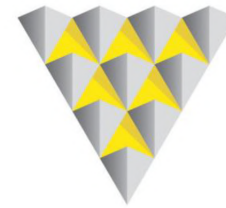
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Dollars Colony, RMV Extension, 2<sup>nd</sup> Stage  
Bengaluru – 560 094



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