



We Don't Supply Buildings  
**We Deliver Projects**



**INTERARCH LIFE**  
**INTEBVBCH LIFE**

## Introduction

Interarch Building Products Pvt. Ltd. commenced operations in 1984, and pioneered the high-end metal interior products market in India. Today, Interarch is proud to be the leading Turnkey Pre-Engineered Steel Construction Solution provider in India with integrated facilities for Design, Manufacture, Logistics, Supply and Project Execution capabilities for Pre-Engineered Steel Buildings, Metal Roofing & Cladding Systems and Light Building Systems.



**INTERARCH**

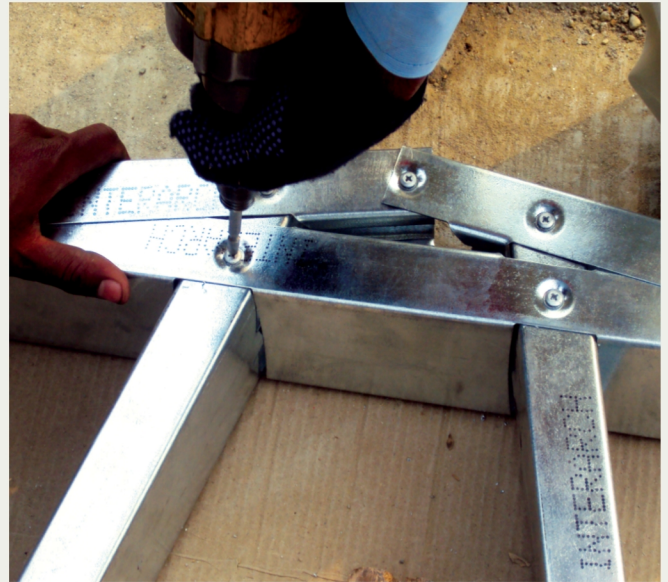
# Light Gauge Framing System for Load Bearing Walls & Roofs

The Interarch Light Gauge Framing System is the ultimate union of design, materials, machinery and manufacturing of standard stud and track profiles which are produced automatically by combining software and machine control systems.

The software and machinery are specifically designed for high volume manufacturing operations, Interarch Light is ideal for applications where speed, reliability and flexibility are critical in delivering a project.

Every output profile is accurately formed, cut, punched, dimpled and individually labeled, ready to screw together for assembly.

Once at the site, they can be further assembled as per architectural drawings by simply snapping the wall frames and floor joists together and fixing them with self-tapping screws.



## Key features

### DESIGN PARAMETERS

AS/NZS 4600-2005 (Cold-Formed Steel Structures)  
BS 5950-5 - Structural use of steelwork in building Code of Practice for the design of cold-formed thin gauge sections.  
AISI-S100-2007 (North American Specification for the Design of Cold-formed steel Structures member)  
IS: 801-1975 (Reaffirmed 1995) - (Indian Standard Code of Practice for Use of Cold-Formed Light Gauge Steel Structural Members in General Building Construction)

Substrate

a) Grade of Steel

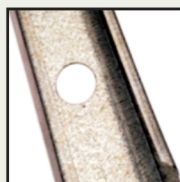
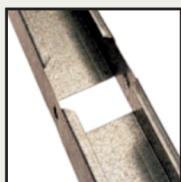
1. Galvalume Steel - AZ 150/550 MPa
2. Galvanized Steel - Z 275/550 MPa

b) Section Size: 89 mm X 41 mm X 11 mm

c) Thickness : 0.75 mm / 0.95 mm / 1.25 mm

Fixing Screw :

Wafer head steel screws



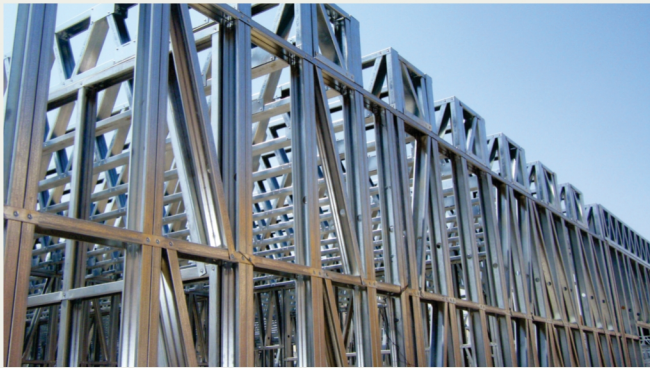
Fixing arrangement :

Fixed to plinth beam by steel anchor fastener



## LGFS FRAMING SYSTEM

Cold-formed galvanized / galvalume steel framing wall panels, roof trusses and floor joists.



## TYPES OF ROOFS

### a) Sloping Roof



### b) Flat Roof

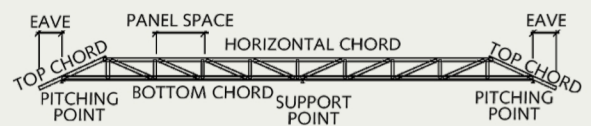
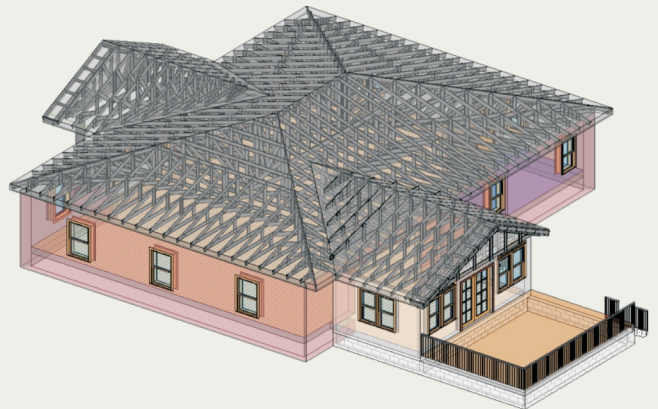


### c) Hip Roof

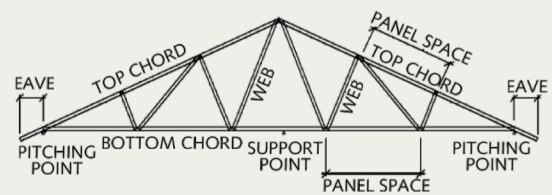


## LGFS ROOF TRUSS SYSTEMS

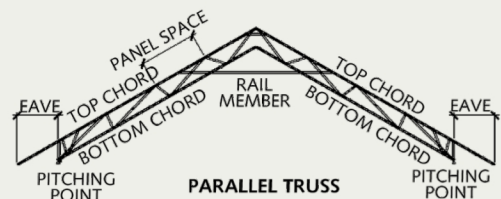
LGFS Roof Truss can be designed in various shapes / forms using Light Gauge Framing System as per required slope and design requirements.



TRUNCATED TRUSS



FULL TRUSS



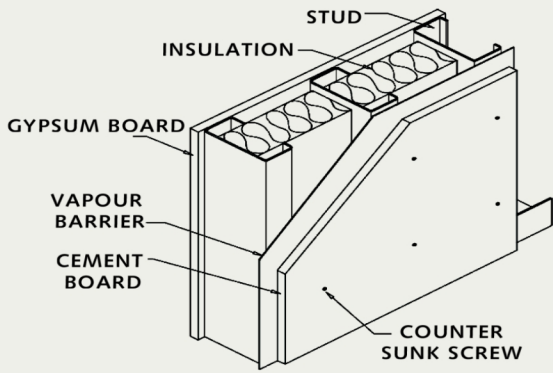
PARALLEL TRUSS

## INSULATION SYSTEM (ROOF AND WALL)

Roof insulation should be Fiber glass insulation 50mm thick, 16 Kg/cum with FSK facing.

Wall insulation should be Rockwool 50 mm thick, 48 Kg / cum density.

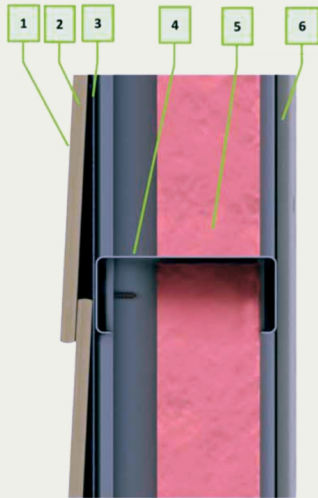




TYP. WALL FINISHING DETAIL

**EXTERNAL FINISHES**

- a) Cement board
- b) TRACDEK® Hi-Rib® metal profiled colour coated galvalume sheet
- c) Glazing
- d) Wood Planks, Cement Planks
- e) Brick Tiles / Ceramic Tiles
- f) Rendering plaster over cement board
- g) Aluminium Composite Panel



Aluminium Composite Panel



Cement Board

LGFS WALL DETAIL		
1	Outside Finish	Weather Shield Paint
2	Outside Cladding	8mm / 10mm Cement Board or 9mm Heavy Duty Cement Board
3	Building Wrap	Building Wrap
4	Framing	Steel Stud – 89mm x 41mm x 11mm
5	Insulation (Roof/Wall)	Glasswool as roof insulation Rockwool as wall insulation
6	Internal Lining	12.5 mm Gypsum/ 10mm Cement Board / 12 mm Laminated Board



Glazing



Exposed Brick Cladding



Wall Tile and Cement Board



TRACDEK Hi-Rib® Metal Profiled Colour Coated Galvalume Sheet



Stone Cladding

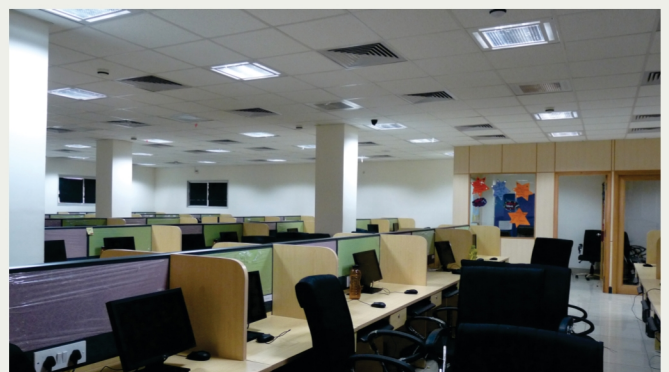


Cement Board



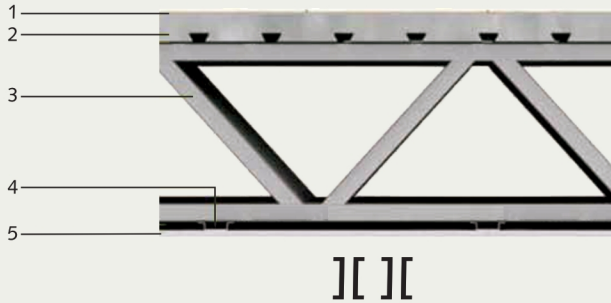
## INTERNAL FINISHES

- a) Cement Board - 10mm thick with 2 coats of paint
- b) Gypsum wall Board - 12.5mm thick, with 2 coats of distemper painted and finished
- c) Wooden Paneling / Laminated board
- d) False Ceiling / Metal Ceiling - Gypsum board false ceiling painted or Pre Painted Steel / Aluminum ceiling



## TYPES OF FLOOR (GROUND, GROUND + 1)

For multi-floor building up to Gr + 1 floor, the first floor will be galvanized steel joist supported on the building wall frames. Decking Sheet suitable for 50mm Foam concrete floor or wooden floor (civil works scope) or 75 mm RCC



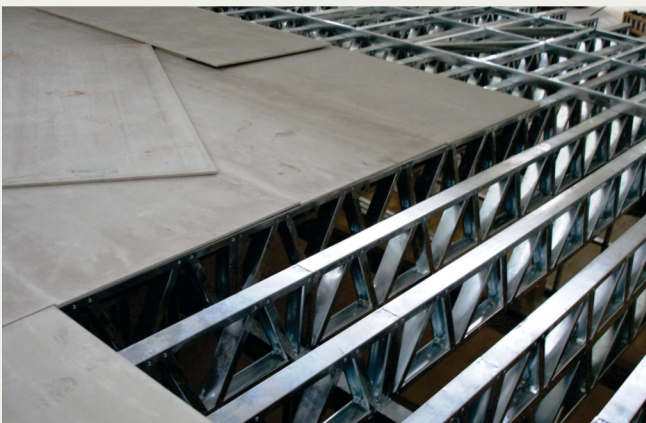
PRODUCTS		
1	Floor Covering	Ceramic Tile / Wooden Floor
2	RCC Floor	75 mm concrete over Metal Decking
3	Framing	Floor Joist – 250mm deep / Double C
4	Ceiling Substrate	25mm Steel Ceiling Battens
5	Ceiling Lining 1	12.5mm Gypsum

## TYPES OF FLOOR SYSTEMS

### a) Built-up Joists



### b) LGFS Joists



## SERVICES IN LGFS SYSTEMS

Electric and plumbing work is easy and safe without any need for drilling or punching.



Electrical Outlets



Tap Fixing Arrangement



Wash Basin Fixing Arrangement



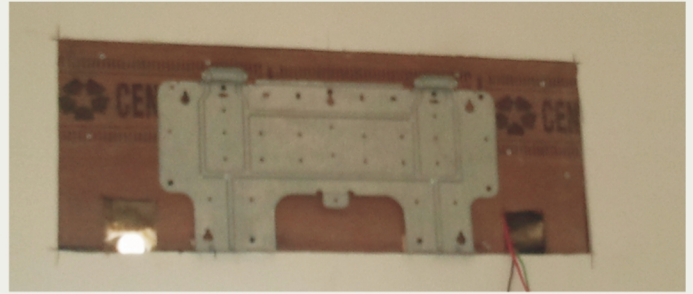
Frame Opening







Wall / Floor mount WC Fixing Arrangement



Wall AC Fixing Arrangement



Conduit / MCB Box Fixing Arrangement



Arrangement of Pipe line for Various Services



Window Fixing Arrangement

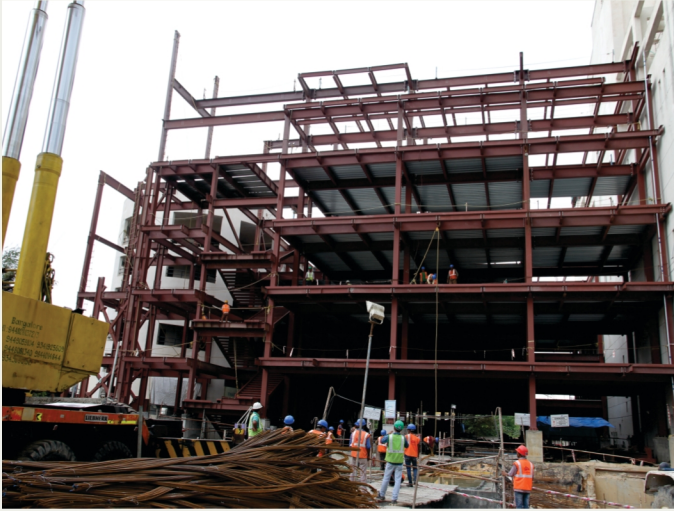
## Benefits

Interarch Light Gauge Framing Systems has got unmatched advantages over the conventional construction system. Few of them have been listed below for your reference:

- a) Steel structure (strength and durability)
- b) Can be customized to meet specific requirements i.e. shape, size and design
- c) Time - saving in construction
- d) No pollution during construction
- e) Use of non-toxic green materials
- f) Insulation system reduces energy consumption and acts as sound barrier from outside
- g) Earthquake and wind resistant
- h) Termite proof
- i) Longer life span and easy to maintain
- j) Dismantling possibilities if required
- k) Dry Wall interior and exterior finishes
- l) Easy transportation and handling
- m) Recyclable

# Types of Structures

## 1. PRE-ENGINEERED HEAVY STEEL STRUCTURES FOR TALL BUILDINGS AND INFRASTRUCTURE APPLICATIONS



## 2. HYBRID STEEL STRUCTURES

COMBINATION OF BUILT-UP PRIMARY FRAMING AND INFILL LGFS FRAMING.



## 3. LIGHT GAUGE FRAMING SYSTEMS



# Application of Interarch Life

## 1. FARMHOUSES, VILLAS & COTTAGES, GUEST HOUSES & CLUBS.



## 2. SCHOOLS & COLLEGES



### 3. OFFICES



#### 4. ROOFTOP EXPANSIONS



#### 5. TRANSPORTATION BUILDINGS



## 6. HOSPITALS



## 7. LABOUR HOUSINGS AND COLONIES



## 8. BUILDINGS IN HILL AREAS & MOUNTAINOUS TERRAIN



## 9. RESTAURANTS & RESORTS



## 10. RETAIL OUTLETS & SHOWROOMS



## 11. SITE & PROJECT OFFICES



## 12. CANTEENS



## 13. BANQUET HALLS





## 14. CONVENTION & CULTURAL CENTRES



## 15. STADIUMS & AUDITORIA



## 16. CAR PARKINGS



## 17. PETROL OUTLETS



## 18. GUARD ROOMS

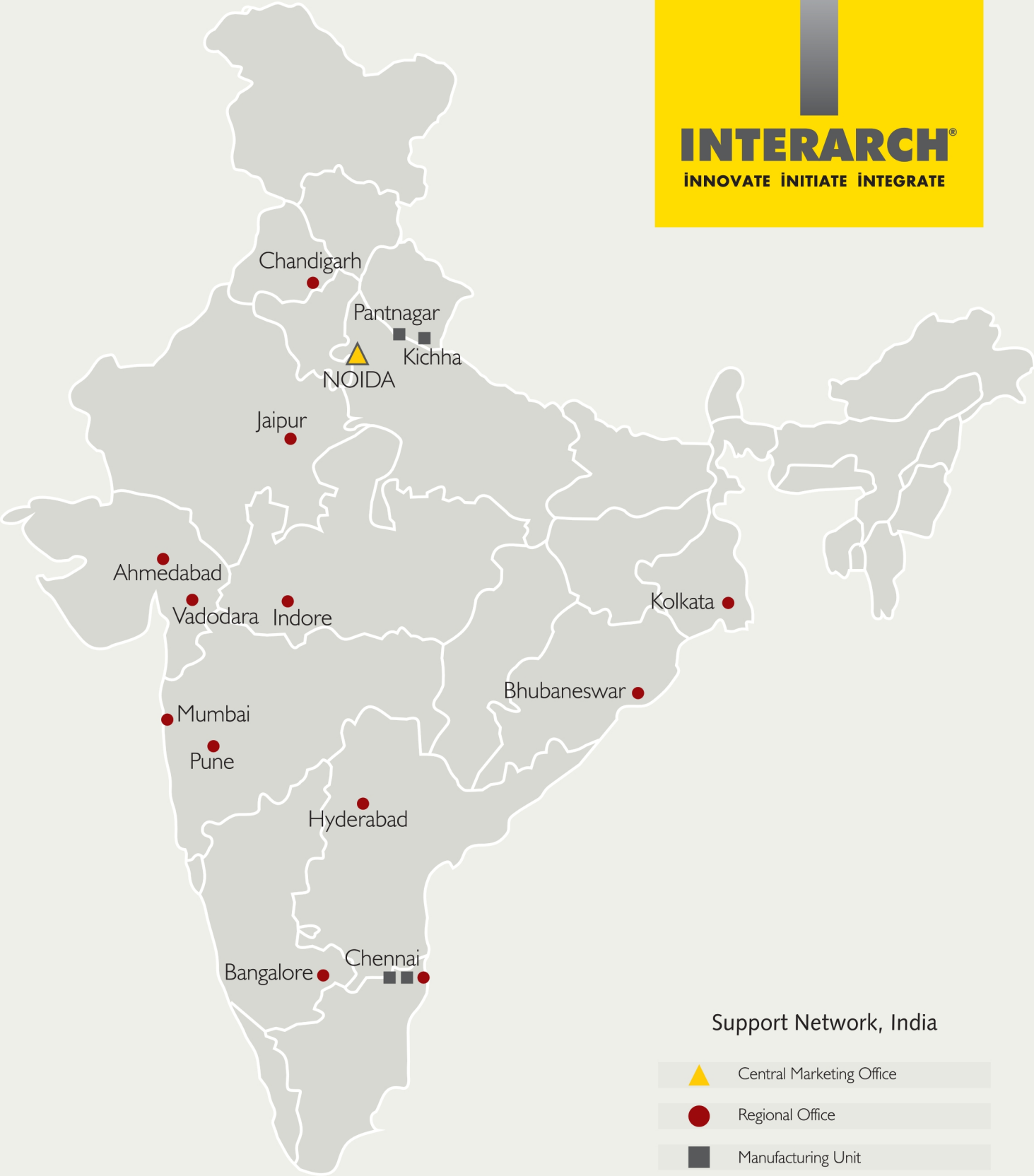


## 19. MEZZANINE FLOORS



## 20. PARTITION WALLS





# Regional Offices & Manufacturing Units

Interarch offers turnkey solutions with regional offices and project control centres for marketing, sales and coordination at all locations across india.

## UNIT 1

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Integrated Industrial Estate, Pantnagar  
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Uttarakhand  
Tel - +91 - 97606 90306, 89793 10068

## UNIT 3

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Tamil Nadu  
Tel - +91 - 90257 56418, 98402 45569

## UNIT 4

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AN ISO 9001-2015 COMPANY

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