



**IETC**<sup>®</sup>  
*The Ultimate in Roofing Solutions*





# INDIAN ROOFING INDUSTRIES PVT. LTD

Indian Roofing Industries Pvt. Ltd. has expertise in designing, manufacturing and installing prefabricated building structure, steel roof sheets, building ventilation systems, roof ventilation systems. Since 1992 the company offers solutions for industrial and commercial structural needs. IETC has unique capabilities for engineering 500 & 600 mm diameter opening roof ventilator using aluminium and stainless steel in any shape and configuration.

## PRODUCT RANGE

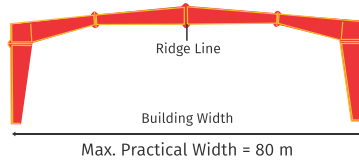
- Pre Engineered Building System (PEB)
- Steel Roofing & Cladding sheets with accessories
- Steel Klip Sheets
- Structural Steel Floor Decking sheet
- Cold Form 'Z' & 'C' Purlins
- No Power Roof Ventilation System
- Polycarbonate Sheets
- Aluminium Foils



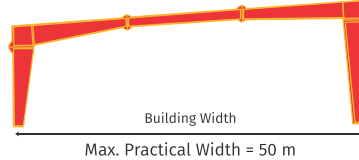


# PRE-ENGINEERED BUILDING SYSTEM (PEB)

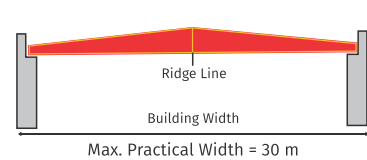
**CLEAR SPAN (CS)**



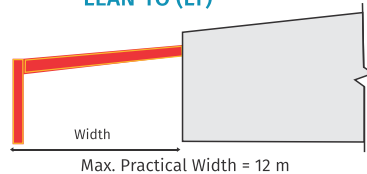
**SINGLE SLOPE (SS)**



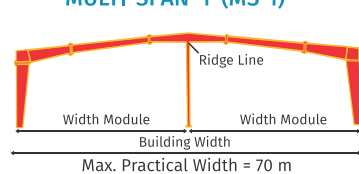
**ROOF SYSTEM (RS)**



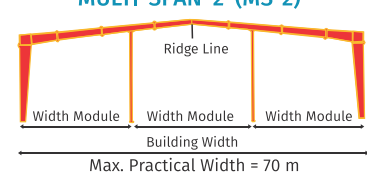
**LEAN-TO (LT)**



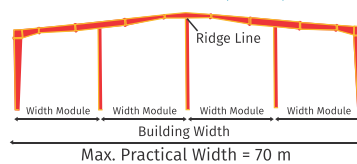
**MULTI-SPAN '1' (MS-1)**



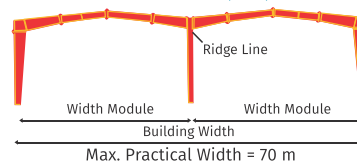
**MULTI-SPAN '2' (MS-2)**



**MULTI-SPAN '3' (MS-3)**



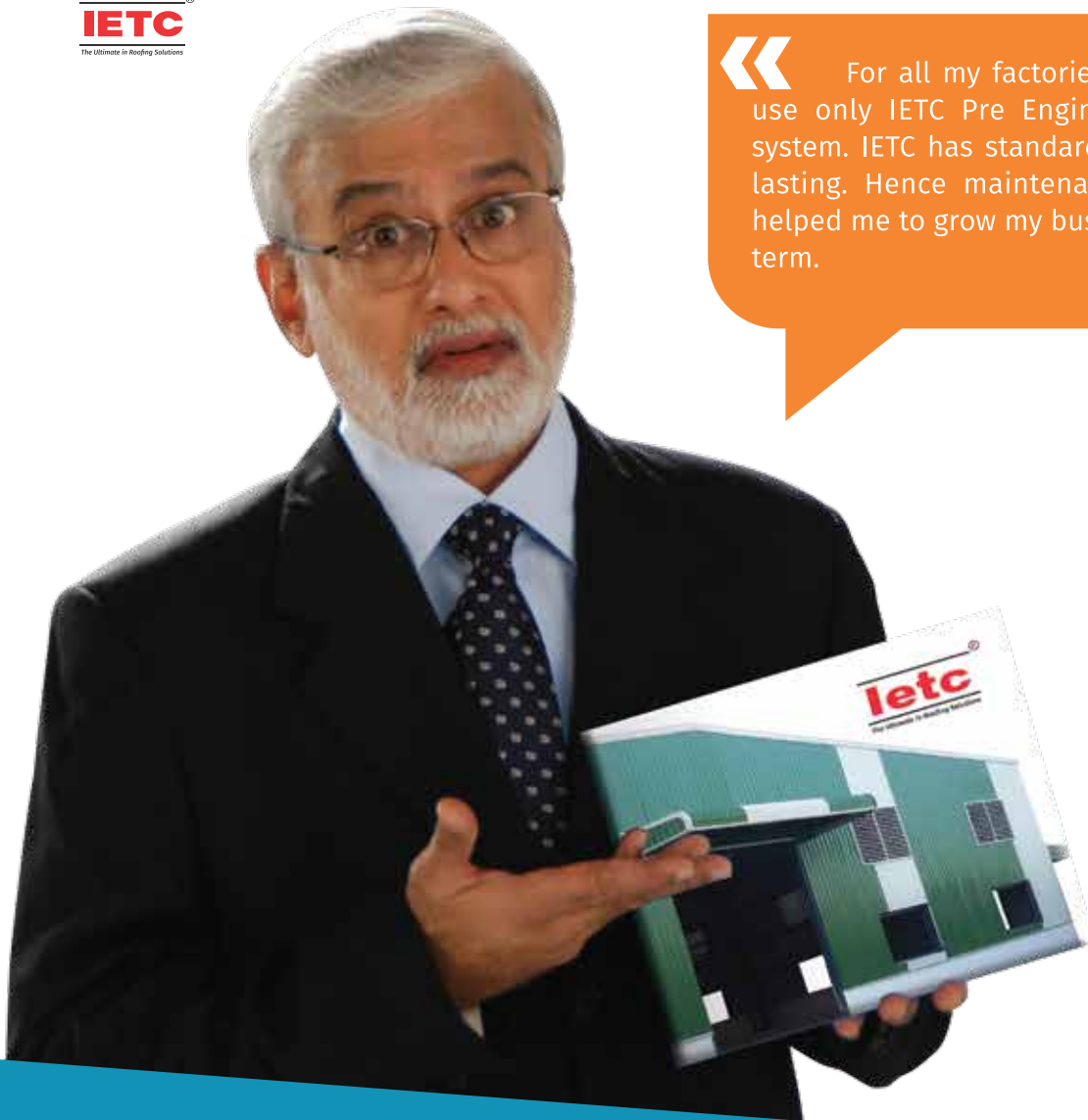
**MULTI-GABLE (MG)**





# PRE-ENGINEERED BUILDING SYSTEM (PEB)





For all my factories across India I use only IETC Pre Engineered building system. IETC has standard and with long lasting. Hence maintenance free which helped me to grow my business for a long term.



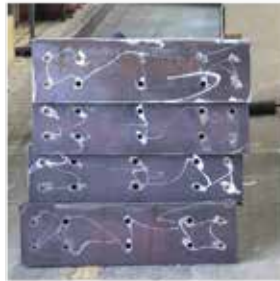


## PRIMARY BUILD UP MEMBERS

(Minimum Yield Strength is 34.5 kN/cm<sup>2</sup>)



Typical Rafter



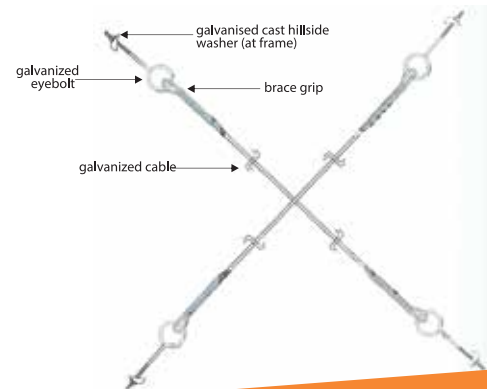
Typical Column



## BRACING SYSTEMS

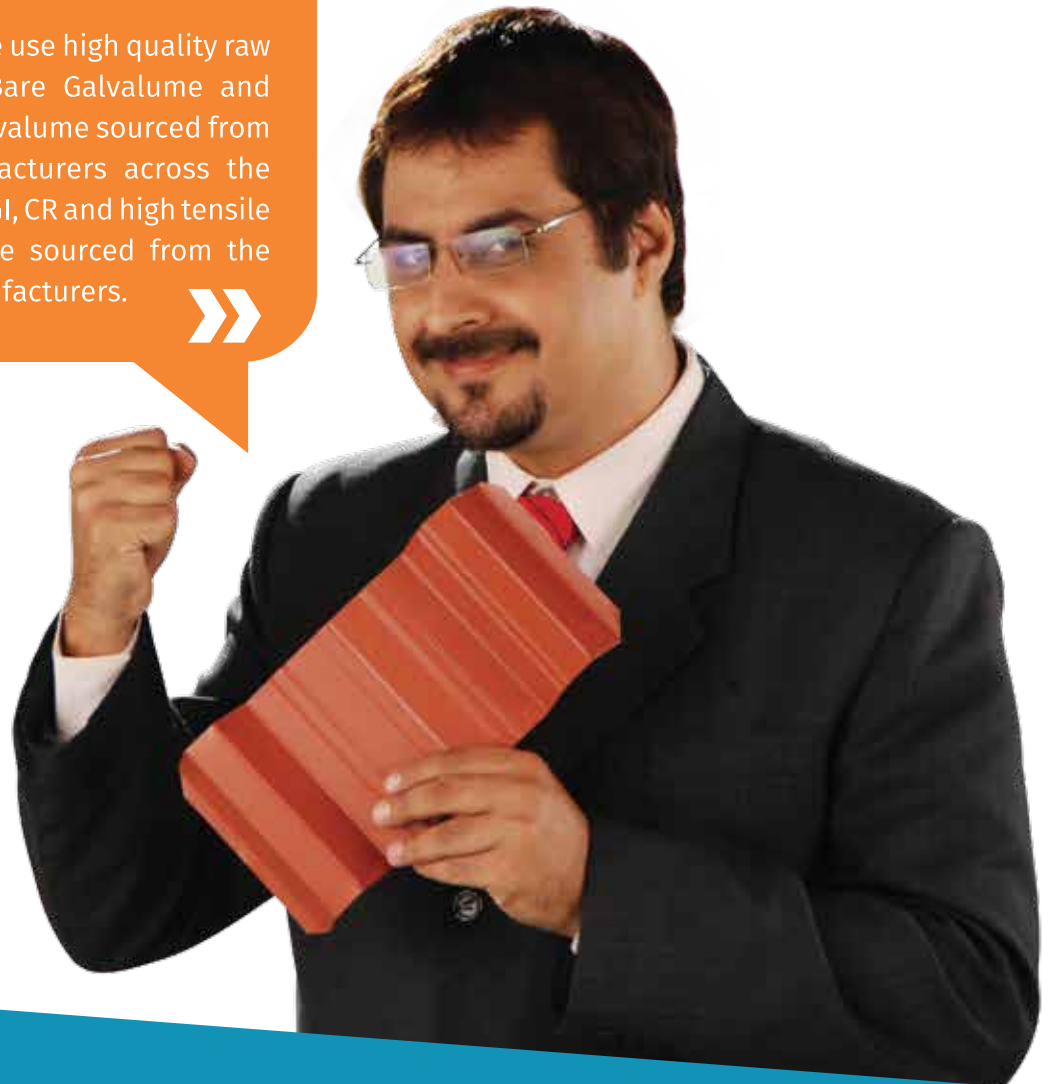
High grade steel plate conforming to ASTM A572 grade 50. Factory painted with a minimum of 35 microns (DFT) of red oxide primer.

Cable bracing is shown. Other bracing systems are available at the option of engineering department. Cable is manufactured in accordance with ASTM A475 extra high strength galvanized strands.



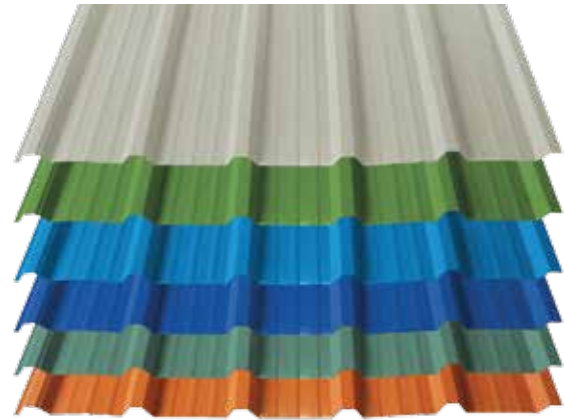


At IETC we use high quality raw materials, i.e., Bare Galvalume and Color Coated Galvalume sourced from the best manufacturers across the world and PPGI, GI, CR and high tensile steel for PEB are sourced from the best Indian manufacturers.



## TECHNICAL SUPPORT

IETC Steel Roof offers you complete technical support in design and selection of your building based on your requirement and roofing and wall cladding with all the necessary accessories like ridge, flashing, crimp curve and gutters to suit your requirements economically.



## HIGH QUALITY STEEL

IETC Steel Roof sheets are manufactured by using high quality Al-Zn alloy coated steel and Pre-Painted Galvanized Steel. In general two grades of steel are used for roof and wall cladding applications, which are 550 Mpa and 340 Mpa respectively. In general 550 Mpa materials are called as “High tensile steel.” In general high tensile steel (550 Mpa) is preferred for roof and wall cladding especially in coastal areas because of its inherent properties and benefits.





## Technical Specifications of Pre-Painted Galvanized Steel (PPGI)

Substrate	: IS: 513 Cold Rolled Steel Coils
Tensile Strength	: 340 Mpa
Galvanizing	: IS:277/JIS:3302
Zinc Coating	: Pure Lead Free Zinc 120 GSM (both side mass)
Pre-Painting	: IS:14246/JIS:3312
Type of Coating	: RMP/SMP
Total Coated Thickness (TCT)	: 0.47 mm – 0.50 mm
Tolerance	: $\pm 0.03$ as per IS:513

## Technical Specifications of Aluminium Zinc Alloy Coated Steel

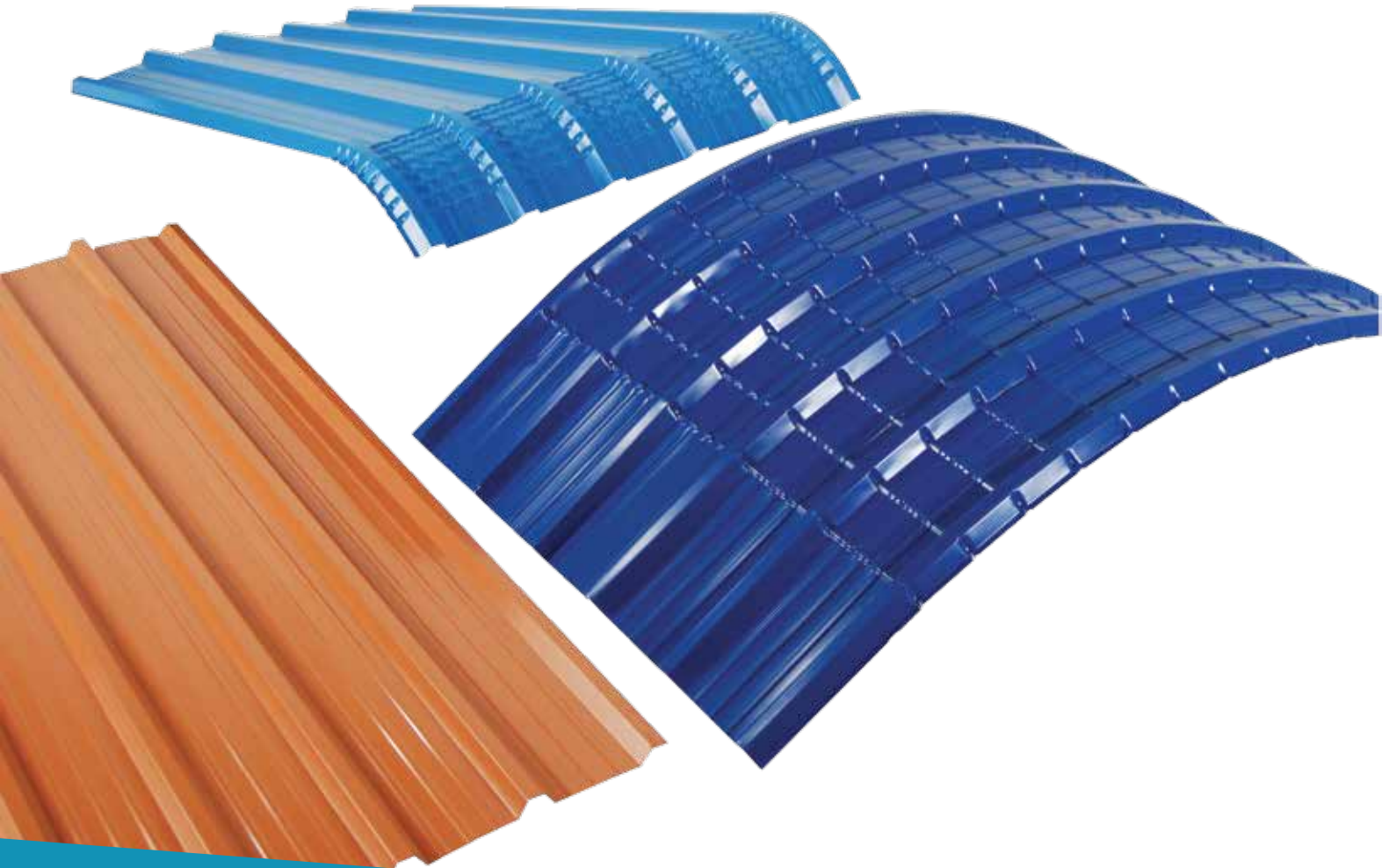
Combination	: 55% Aluminium 43.4% Zinc & 1.6% Silicon
Coating Std	: AS1397-1993
Material	: Bare Galvalume – ASTM A792M
Coating Mass	: AZ 150
Base Metal	: High Tensile Steel
Tensile Strength	: 550 Mpa
Total Coated Thickness (TCT)	: 0.47 mm – 0.50 mm
Tolerance	: $\pm 0.04$ AS per AS/NZS 1397

## Materials

S.No	Material	Yield Strength	Thickness
1	PPGI	340 Mpa	0.47 – 0.50 mm
2	Bare Galvalume	550 Mpa	0.47 – 0.50 mm
3	Coated Galvalume	550 Mpa	0.47 – 0.50 mm

## Available Finishes

- Pre Painted Galvanized Steel (PPGI)
- Al-Zn Alloy Coated Steel (Bare Galvalume)
- Colour Coated Al-Zn Alloy Coated Steel (Colour Coated Galvalume)



## RECOMMENDED ROOF SLOPE

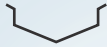
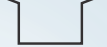








After extensive research, study and tests, the Metal Building Manufacturers' Association (MBMA) had recommended roof slope of 1:10 as best suited and optimal for steel roofing sheets. Steel Roof subscribes to this standardization process. However, designers are free to choose slope of their choice keeping factors like heat dissipation, operational requirements, energy conservation and environmental factors in mind. Our profile is suitable for adaptation to slope as designed.

## RECOMMENDED THICKNESS

Pre Painted Galvanized steel (340 Mpa)	:	0.47 – 0.50 mm TCT
Al-Zn alloy coated steel (550 Mpa)	:	0.47 – 0.50 mm TCT
Colour Coated Al-Zn Alloy Coated Steel (550 Mpa)	:	0.47 – 0.50 mm TCT

## APPLICATION

Roof and wall cladding

 VALLEY GUTTER		 BOX GUTTER	
 RIDGE PLAIN	 CORNER FLASHING	 GABLE FLASHING	 PEB GUTTER
 INTERNAL CORNER FLASHING	 END WALL FLASHING	 APRON	 DRIP FLASHING

## RANGE OF COLORS





IETC Roof Ventilators are unique and innovative in the sense that they do not require any source of external power supply to work. Just install and forget about it. Our clients cannot stop boasting about how it has helped increase productivity over the years!



**Available in 500mm & 600mm sizes**

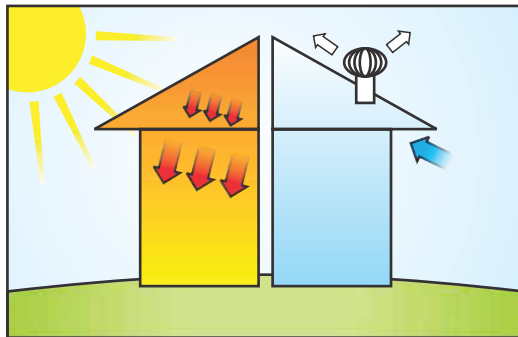


## VENTILATION

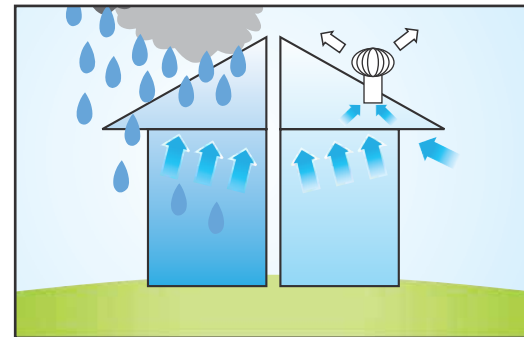
Ventilation is simply the process of supplying continuous supply of air through the attic space. "Prope ventilation" consists of 50% intake, under the eaves, and 50% exhaust near or at the roof peak.

## WHY VENTILATION

To fight heat and moisture, you must ventilate year around. Heat in unventilated attics may cause temperature to exceed 60 degrees causing damage to shingles, roof sheathing and possibly radiate to the living area. Moisture being the #1 enemy, causes rot, mildew, mold paint blisters, and renders insulation to be ineffective. Proper ventilation reduces energy bills, winter ice buildup and eliminates mold/mildew which can lead to majo health problems. By ventilating, you are extending the life of other building components, shingles, insulation etc.



**DURING SUMMER**



**DURING WINTER**



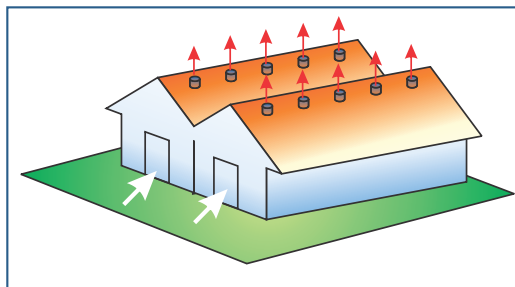
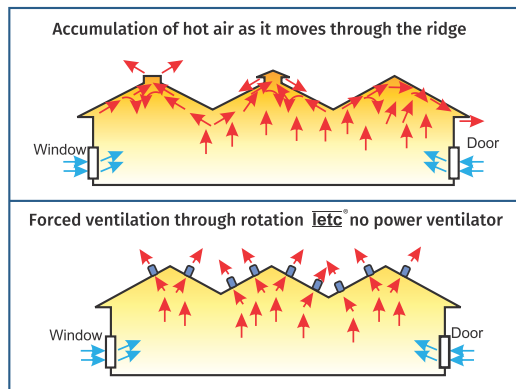
Quality is our ultimate motto. Be it in the products we make or the products we use. That is why we have been trusting only IETC products for all our factories across India. Just fit-and-forget. No problem at all!



# NO POWER ROOF VENTILATION SYSTEM

## APPLICATION

It is widely used in chemical industry, light industry, food, medicine, textile and dye, warehouse, metallurgy, electrical power, construction, tunnel, machine and hotel, cinema and market places. In recent years, our product are in demand and we have our customers through all parts of the country.



## ADVANTAGES

- Our powerless ventilators are having the following traits:
- No power exhausting
- Saves energy and money
- Anti-erosion
- No noise
- No pollution
- Improves the air quality
- Increases working efficiency
- Assured ventilation for 24 hours for 365 days
- Designed to be fitted easily on asbestos, all kinds of metal roof sheets & RCC roof.



## **INDIAN ROOFING INDUSTRIES PVT. LTD.**

( An ISO 9001 : 2015 Certified Company )

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