

# We Are Specialists in Telecoms & Renewable Solution & Products

We have been in the field of making communication towers since 2008. Our products are being used in diverse fields like cellular telephony, Micro-wave communication links Wireless, Paging, Lighting towers etc.



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[akmeglobal.com](http://akmeglobal.com)



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# About Company

## COMPANY PROFILE

AKME GLOBAL is one of the few companies in world offering design & construction of towers under one roof established in 2011 with an objective to satisfy customers with our products and services. We are also manufacturer and exporter of hot dip galvanized steels lattice towers and guyed masts and have specialized in complete range of light, medium & heavy duty self supporting angular, tubular & hybrid tower for rooftop and ground base applications.

We have designed, fabricated and installed tower height from 8 mtrs to 200 mtrs height. Our products are used for various ends like communication, microwave links, wireless, paging, cellular telephony, lightening, and wind energy. With our well experienced technical teams, we are able to provide a total turnkey solution in the area of telecom both in domestic and global markets.

AKME GLOBAL products range includes self supporting tower, guyed mast, monopole for telecommunication, microwave, television, radio, defense, windmill for security & other diverse application.

Our towers are being exported to various countries such as Middle East, Africa, Arab countries, South Asian countries.

Our services include an initial project consulting & system design to implementation, installation and testing through maintenance & support.

## EXPERIENCE

We have erected self supporting towers in thousands all over the country and in foreign countries. Pictures on left shows some of our towers from foreign countries.

## PRODUCTS & SERVICES OFFERED

- Height of towers required at each end.
- Line of sight surveys
- Galvanizing of fabricated materials
- Soil investigations
- Foundation design
- Construction of foundations
- Erection and painting of towers.





# Why Choose us

## BENEFITS OF WORKING WITH AKME GLOBAL

We have been in the field of making communication towers since 2008. Our products are being used in diverse fields like cellular telephony, Micro-wave communication links Wireless, Paging, Lighting towers etc.

Very few companies can boast of work experience of designing & constructing more than 1000 towers for such diverse applications. Choosing us as your work partners will give you access to many advantages that we alone have developed over the years.

## OUR STRENGTH



### DELIVERY

AKME GLOBAL's biggest strength lies in its ability to manufacture a new design of any tower without going through the process of first making a prototype for that design. This means that a customer gets a very fast delivery for any new design of tower. Alterations or variations in any existing design are accomplished very fast. AKME GLOBAL has in-house designing facility for towers & tower foundations.

- To the customer, it means that the supplies will never be delayed due to
- Non availability of any section of steel
- Non availability of any size of bolts
- Non availability of any grade of steel.



### TAILOR/ADAPTED MADE TOWER

- We have commissioned several tailor made towers, such as
- Towers with 2 legs on roof top & two legs on ground.
- Triangular towers on square bases.
- Ultra Slim Towers made out of Solid Rods.
- Platforms as big as 20 square Meters on tower top.
- Towers with very small base width i.e. upto height/12.
- Tower with rectangular bases of size matching exactly with the structural grid of building.



### ACCURACY

All detailing of tower members is done via computer modeling. This results in very accurate drawings. Which in turn means that there will be no cutting or drilling required at site during erection?

To the customer it means that the protective zinc coating does not get damaged due to cutting and drilling therefore no rust-starter points are created. This ensures longer life & enduring strength of tower.

Moreover, due to accurate fabrication, the geometry of the tower does not get distorted therefore final shape of towers remains very elegant.



### MATERIALS USED

Our tower designs are based on strengths of Indian Steels. Certificate from a Govt. Approved Test laboratory certifying the strength of material is as specified in design, can also be provided with material supply. All materials are hot dip galvanized after fabrication. The length of all members is maintained less than 6 meters, so that transportation of material by truck or containers is not a problem.



# Products & Services

## TELECOMMUNICATION TOWER

These towers are precision designed to deliver long lasting performance even in toughest working conditions. The optimization of manufacturing facilities and incorporation of top standard accessories ensure the effective functionality of these towers. These towers are carefully engineered to handle the medium to heavy-duty applications.

## MICROWAVE COMMUNICATION TOWER

The Microwave Communication Towers are fabricated as per the clients specifications pertaining to size, weight, heights & orientation of antenna, wind velocity of location, etc. Prior to installation of the Microwave Communication Towers, These towers are carefully engineered to handle the medium to heavy-duty applications.

## COMMUNICATION & BROADCASTING EQUIPMENT

Communication Towers are designed for both government and civil communications and are suitable for both far-off and short distance communications. For additional protection, these towers are covered with protective shield to prevent the radioactive fallouts.

## GROUND LIGHTENING TOWER

Ground Lighting Tower is fabricated from high quality components and accessories. AKME GLOBAL galvanizes and paints these towers in accordance with clients' requirements.

## GSM COMMUNICATION TOWER

GSM Communication Tower is fabricated in precise dimensions. These are provided with fasteners, emitter, responder and other quality materials. Prior to install of these towers, AKME GLOBAL involves in soil testing to ensure their firm establishment of the tower. The maximum covering range of these towers is 30 km line of sight. These towers also have the ability to transmit cell broadcast message.

## SQUARE STEEL TOWER

The Square Steel Towers are constructed out of galvanized stainless steel, which enhances their capability to perfectly resist the water, heat and corrosion. AKME GLOBAL uses advanced software to design the towers as per the clients' functional requirements and technical specifications.



# Products & Services

## SELF-SUPPORTING COMMUNICATION TOWER

AKME GLOBAL provide precision engineered standard micro wave antennas, cellular radio antenna platforms, LPTV antennas, wireless internet and other accessories as per the latest design standards demanded by the clients. These towers can be galvanized and painted to offer long lasting functionality.

## TRIANGULAR TELECOM TOWER

The Triangular Telecom Tower is constructed using solid rods, antenna and various other accessories, engineered from highest quality of materials. The tower is installed on a square base to suit the grid on the roof-top. Triangular Telecom Tower is also certified by third party to meet all the strength requirements.

## GUYED MAST

12 Inch Mast Guyed Masts find application in the telecommunication towers. These are compatible for each kind of wires aeriels such as VLF, MF, LF, etc. These masts can be easily installed in ground and serve the operational requirements for long duration.

## ARRESTOR

Lightning Arresters with Five 200mm Copper Rods is a conductive metal device, mounted at the highest point on the tower to protect it from lightening strike. This lightening arrestor or air electrode is connected to earth electrode through a conducting wire or strip. Lightning Arresters with Five 200mm Copper Rods are durable in nature.

## PIPE FITTINGS

We provide Extensive Range of Fittings for Telecom Towers offers accurate dimension and excellent durability. High grade material is used to fabricate these products. Extensive Range of Fittings for Telecom Towers includes Antenna pipe, Tower led, Antenna Interfaces, Cable Tray, Climbing Ladders, Earthing, Working Platforms and Rest Platforms.

## EXTENSIVE RANGE OF FITTINGS FOR COMMUNICATION TOWER

Made of fine materials, this Extensive Range of Fittings for Communication Towers are dimensionally precise and long lasting. These are offered in a multitude of dimensions, size and finishes. Extensive Range of Fittings for Communication Towers includes OSM pipe, Tower led, Foundation bolts, Templates, Tower brackets and Antenna interfaces.

## AVIATION OBSTRUCTION LIGHT

The Aviation Obstruction Light for Communication Towers is based on LED technology. These lights are precision designed for the telecommunication and GSM towers. These are durable, easy to mount products, featuring shock & vibration resistant attributes. AKME GLOBAL supplies these lights as per the specifications of the clients.





# Ordering Info

## HEIGHT OF THE TOWER

The cost of a tower varies exponentially with the height of the tower.

That is- when the tower height is doubled, the cost of the tower is much more than 2 times. .

AKME GLOBAL provides services of LOS survey to determine your exact requirement of tower height.

Expenditure in survey is normally more than compensated by the tower height saved.

## SPACE AVAILABLE FOR INSTALLATION OF TOWER

In highly populated cities, the real estate is at a very high premium. The space available may be able to take a narrow base tower only.

If high rise buildings exist adjacent to tower installation site, then foundation design will need special considerations.

## TYPE OF BUILDING AVAILABLE

If it is desired that the tower be installed on roof top, then complete details of building structure, i.e.

spacing of columns, beam sizes, reinforcements, slab details height of each floor, etc. are required to ascertain, whether building is structurally suitable to take the load of the tower & the load generated due to wind on tower.

If tower is to be installed on ground, then information about the soil i.e. soil condition,

## TYPE OF TOWER & FACILITIES REQUIRED

You may decide to buy a triangular tower or a square tower.

You may need a circular or octagonal platform at top.

If your antenna system has space diversity requirement, then that must be specified.

The tower is normally constructed from angles or pipes & plates with bolted construction.

If welded or any other type of construction is required, then that should be specified.

- Ladder or step bolts
- Cable tray for supporting cables
- Safety Cage for the ladder
- Levels of platforms required
- Size of platform required at each level
- Finish of tower- hot dip galvanized with painting or without painting
- Aviation Obstruction Light
- Lightning Arrestor with copper conductor up to bottom of tower





# Role of Design



SURVIVAL WIND SPEED



PHYSICAL SIZE / TYPE



NUMBER & LEVELS OF ANTENNAS



TWIST & SWAY REQUIREMENTS

While offering a product, almost all bidders, uniformly say "Complied" against all the required specifications including above i.e. wind speed, antenna loading etc.

While compliance for some of the specifications is easily confirmable, the requirement of wind speed and antenna loading cannot be checked without looking into *detailed design calculations*. Hence experienced and shrewd buyers always insist on design calculations, before finalization of purchase contract.

Unfortunately these two parameters are main parameters, which determine suitability of tower and are responsible for cost of tower also.

Factors *like size of antennas, type of antenna, level of antenna have considerable effect on the required strength* (read cost) of tower.

Placing antenna at mid height of tower will reduce the loading on tower by 50%. On the other hand, if the wind speed is doubled, the forces acting on tower are 4 times.

Buying a communication tower is not the same as buying a bunch of steel angle, pipes, plates etc. Tower is matched set of its various components. Each component of this set has a vital role to play in the strength of WHOLE tower. For example, if one small segment of the leg is slightly weaker than required, that the entire tower's strength will be determined by this small component, because tower will fail from this point only when full loading occurs.

Moreover, putting extra strength at any non- required point is wastage of materials, because strength of the tower is determined by weakest link in the structure only.

Hence it becomes imperative that all members should be capable of resisting the applied loads to the same extent uniformly.

To ensure that all these things have been considered properly, availability of design competency with the tower supplier is the most desirable eligibility criterion.

Design competency in supplier is a must for copying also. For example, if bolt grade changes, the joints have to be redesigned. If any member is replaced due to non availability of any section then also detailing of all adjoining members has to be changed.

Tower cost consists of mainly profits and materials. In today's competitive world, all bidders work on small margins. Hence material cost is the all encompassing component of total cost. Anybody can reduce the cost by reducing the material. That reduction is normally not without compromising on the performance or strength. The buyer has no way to recognize this compromise without looking into detailed calculations and verifying that the product is as per design calculations.



# Our Plant

- Facility Size : **6 Acre**
- Year of Establishment : **2011**
- Installed Capacity : **500Mt Per Month**
- Facility Available : **Fabrication, Galvanizing**















# Some of our Projects

→ 200mtr, 4 Legged Tower For MRTV Yangon





→ 70MTR, 4 Legged Tower in Sri Lanka



→ 50MTR, 4 Legged Guyed Tower For Saudi BinLadin Group (Saudi Arabia)



→ 30.6 MTR, 4 Legged Angular Tower for Kuwait Govt.





→ Telecommunication Towers and Guyed Mast & Our other projects



# Our Team

CEO/ Director

## SUSHIL KUMAR CHAUHAN

With a dynamic professional experience of more than three decades, He has extensive knowledge in communication tower fabrication, tower erection and execution, liaison/ coordination and team management. He is highly respected for his adroit planning and spearheading projects involving method engineering, development and resource planning.

Sushil Kumar Chauhan is well-known for his flair for adopting modern technologies in compliance to quality standards. His years of experience in the industry enable him to swiftly ramp up projects with cross functional skills and ensuring timely deliverables

He has previously held key positions in various reputed organisations in India, including Poly-Qual India pvt. Ltd, Krish Global and was one of the co-founder of Safe Towers pvt. Ltd.

At present, he is the founder of AKME GLOBAL and playing an instrumental role in steering the company's success. AKME Global is expected to grow bigger and better under his supervision.



Company Partner

## ABHISHEK CHAUHAN

- Post Graduate in International Business
- Certified in Data Structure/ Analytics
- Marketing/Account Dep.
- 8+ years of experience in Telecom Towers

Company Partner

## ANKIT CHAUHAN

- Masters in Sustainability and Energy Efficient Building Design
- Architect/Designer
- 8+ years of experience with leading companies as a BIM Architect/ 5+ years of experience in Telecom towers.





# Our Team

## Other People Involved

Team Members

**RAM SWROOP**

Graduate, Specialist in Tower installation/erection  
More than 25 yrs experience in telecom tower

Technician

**SUNIL KUMAR**

Having 20 yrs experience in telecom tower

Technician

**ARUN KUMAR**

10 yrs experience in telecom Tower

Tower Technician

**AYUB ALI**

20 yrs experience in tower installation, erecting

Technician

**YUSUF KHAN**

8 yrs experience in tower installation

# Country Served



## Myanmar

32 m to 200 m 3 legged to 4 legged tower.



## Nepal

24 to 70 m 3 legged and 4 legged for Nepal Telecom and Spice Telecom



## Bhutan

15 to 50 m 3 legged to 4 legged for Bhutan telecom and Tashi Telecom



## Sri Lanka

50 m to 150 m height for MTN Group



## Saudi Arabia

50 to 60 m square guyed tower for Saudi BinLadin group



## Kuwait

30 to 70 m 4 legged tower for Kuwait Govt.



## Kenya

Radar tower 36 m height 4 legged tower for Kenya govt



## Yemen

35 to 45 m 3 legged tower Yemen Govt.



# Clientele

**bharti**

**!dea**

**spice**  
TELECOM

**MTNL**

**vodafone**

**Reliance**  
Infocomm  
A New Way Of Life



**TULIP**  
making it possible

**ITI**  
ITI LIMITED  
A COMMITMENT TO EXCELLENCE

**GTL**

**Quippo™**

**RADIO MIRCHI**  
75% KUT!

**NU TEK**

**Sony Ericsson**

**NOKIA**

**Lucent Technologies**  
Bell Labs Innovations



**BHARAT ELECTRONICS**

**DAEWOO**

**MOTOROLA**

**ओएनजीसी**  
**ONGC**

**एसटीपीआई**  
**STPI**

**POLARIS**  
Think Outside

AL-Zamel Trading Group

and many  
**more!**

# Contact Us

## OFFICE ADDRESS

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