indus TOWERS

Putting India First

Areas Of Operation

DELHI
ch.delhi@industowers.com
9th Floor - Building No 10,
Tower B, Phase II, DLF Cyber City,
Gurgaon 122 002 Haryana
Tel: 0124-4290700

RAJASTHAN
ch.rajasthan@industowers.com
G Business Park, 3rd Floor, D - 34,
Subhash Marg, C Scheme,
Jaipur 302 001 Rajasthan
Tel: 0141-4043636

UP - EAST
ch.upe@industowers.com
B 3/3, B 3/4, D 3/34, D 35, D 36 & D 37,
Vibhuti Khand, Gomti Nagar,
Lucknow 226 010 Uttar Pradesh
Tel: 0522-4051500/4051531

UP – WEST
ch.upw@industowers.com
H-11, 2nd Floor, Sector - 63,
Gautam Budh Nagar,
Noida 201 301 Uttar Pradesh
Tel: 0120-4735800

PUNJAB & HARYANA
ch.pb_hr@industowers.com
Tower F, 3rd Floor, DLF IT Park,
Chandigarh 160 101 Punjab
Tel: 0172-4326635

GUJARAT
ch.gujrat@industowers.com
103 - Baleshwar Square, S.G. Highway,
Ahmedabad 380 015 Gujarat
Tel: 079-40088906

KOLKATA
ch.kolkata@industowers.com
Godrej Water Side, 8th floor, Tower I,
Unit - 801, Plot No. 5, Block - DP,
Sector - 5, Salt Lake City,
Kolkata 700 091 West Bengal
Tel: 033-44070051

REST OF WEST BENGAL
ch.wb@industowers.com
Unit 501, 5th Floor, Block '3A',
Plot No. II/F/II, Ambuja Eco Space,
Behind Tata Medical Centre,
New Town, Rajarhat,
Kolkata 700 156 West Bengal
Tel: 033-44051550

MUMBAI
ch.mumbai@industowers.com
Skyline Icon, 3rd Floor, Andheri
Kurla Road, Near Mittal Industrial
Estate Andheri East,
Mumbai 400 059 Maharashtra
Tel: 022-42006100

MAHARASHTRA & GOA
ch.mg@industowers.com
Pentagon 1 – 501 & 504, Magarpatta
City, Pune 411 028 Maharashtra
Tel: 020-40197600

KERALA
ch.kerala@industowers.com
Vankaarath Towers, NH Bypass,
Palarivattom, Cochin 682 024 Kerala
Tel: 0484-4413300

ANDHRA PRADESH
ch.ap@industowers.com
3rd floor, USHA 36 Jubilee Town,
Road No 36, Jubilee Hills,
Hyderabad 500 033 Andhra Pradesh
Tel: 040-44663636

KARNATAKA
ch.karnataka@industowers.com
12, Tower D, Subramanya Arcade,
7th floor, Bannergatta Road,
Bangalore 560 029 Karnataka
Tel: 080-4095433

CHENNAI
ch.chennai@industowers.com
ESPEE IT PARK,
5 Jawaharlal Nehru Road,
5th Floor, Ekkaduthangal,
Chennai 600 032 Tamil Nadu
Tel: 044-43435200

REST OF TAMIL NADU
ch.tamilnadu@industowers.com
1045, 3rd and 4th Floor,
Avinashi Road, Srivari Shrimat,
Coimbatore 614 018 Tamil Nadu
Tel: 0422-4326222

Corporate Office: Indus Towers Limited, Building No. 10, Tower-A, 4th Floor, DLF Cyber City, Gurgaon 122 002, Haryana

Registered Office: Aravali Crescent, 1 Nelson Mandela Road, Vasant Kunj Phase II, New Delhi 110 070

Please send all your queries to info@industowers.com Tel: 0124-4296766 Fax: 0124-4289333

www.industowers.com

Landlord helpdesk with toll free number 1800 1021-666 constituted to take care of the complaints logged by our esteemed landlords.

Tower Designs

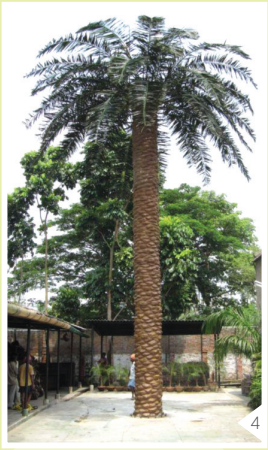
4. Monopoles & Aesthetic Towers

- Monopole designs
  - Simple Monopole with or without utility lighting
  - Camouflaged Monopole with or without utility lighting where in antennae are camouflaged and not visible.

These are ground based galvanized Steel monopoles with low foot print requirement of 18ft x 18ft (in case of non- DG site) & 18ft x 24ft (in case of DG site).Heights of these monopoles will be 20mtr, 30mtr & 40mtr. Space for outdoor equipment contained within the tower base.

Suitable for road sides, round-about, corners of play grounds and on institution lands.

- Palm Tree with height of 15mtr Designed to enhance the aesthetic look of the tower. Suitable for Hotel premises, Resorts, IT parks, upcoming townships & important Govt. office landscapes.
- Telecom site on EB poles. No foot print required. Antennae and equipment mounted on pole itself. Ideal on municipal corporation street light poles.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5. Camouflaged Monopole

Features

- Multiple sections of ~ 6m
- Construction – Pre painted steel sheets with stiffener plates
- Triangular base with side of 3m
- Height options of 20m / 25m / 30m / 35m for GBT
- Climbing ladder provisioned from inside
- Reduced trailer size with max section size of 6.2m
- Manufacturing location – India

Unique Aesthetics

- Self Contained
- Very less space Required
- Site area required – 8m x 8m (for foundations)

Designed for

- 6 - 12 GSM antennas and 3 x 0.6m MW
- 180Kmph wind speed
- Design factor – 1.5
- Design approved by IIT, Mumbai
- Space for outdoor equipment contained within the towebase

Footprint

- 3mx 3m x 3m triangular, with space for equipment installation within tower foot print

Site Sharing

- 3 Opcos Installation time
- 2 – 3 days for complete site

Suitable for townships, institutions and enhancing landscaping.

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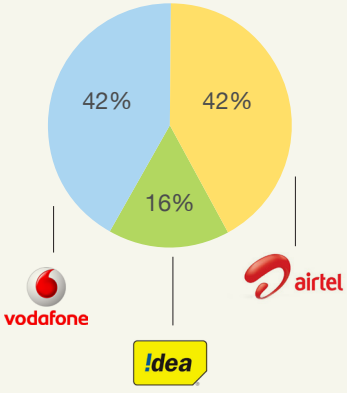
Welcome to Indus Towers

Indus Towers Limited provides “Shared Telecom Infrastructure” services to all telecom operators in the wireless space and other wireless service providers such as broadcasters and broadband service providers. Indus Towers Limited has been promoted under a joint venture among entities of Bharti Group (rendering telecom services in India under the brand name Airtel), Vodafone Group (rendering telecom services under the brand name Vodafone) and Aditya Birla Group (rendering telecom services under the brand name idea), to render passive infrastructure services to telecom service providers.



Indus Areas of Operation

Indus has the widest coverage in india with 112,144 towers across the country which is double the size of the second closest player

THE WORLD’S LARGEST TELECOM INFRASTRUCTURE SERVICE PARTNER, DELIVERING OPERATIONAL EXCELLENCE **THROUGH INNOVATION,** GREEN TECHNOLOGIES AND **INSPIRED PEOPLE**

Indus Towers' Winning Edge

A market leader in the Telecom Infrastructure space, Indus Towers has key differentiators.

EXCEPTIONAL SPEED TO MARKET Of every 5 call made in India, 3 are made through an Indus site. By offering the largest portfolio of towers worldwide and the widest coverage in India, our customers are empowered with a significant strategic advantage and a reduced time to market.

6 SIGMA OPERATIONAL EXCELLENCE Our staff of 1,200 personnel across 15 telecom circles and over 30,000 managed outsourced professionals deliver operational excellence through continuous innovation, resulting in the coveted 6 Sigma (~100%) reliability in over 164,000 tenancies.

HUGE COST EFFICIENCIES 24X7 network availability - our breakthrough improvements in network availability have cut down the time of non-usage from 210 to 19 minutes per site. Huge cost savings are achieved through our energy efficient programs, with added benefits of scale. Our tower sharing slashes capex by 75%, giving more operators the viability to participate in India's infrastructure build-out.

GREEN TECHNOLOGY Indus has the largest portfolio of green sites among all telecom/tower companies. Our green initiatives include an impetus to reduce GHG emissions, green telecom equipment and green design of passive telecom sites which is managed by certified professionals. We at Indus remain committed to be socially responsible and deliver our services in an environmentally friendly manner.

Radiation norms set by DoT, Govt. of India

Health impact of Radio Frequency emission from telecom antennae and base station is due to the magnetic & electrical energy generated. In India the Electro-magnetic Field (EMF) exposure limit for the base station (BTS) emissions has been lowered to 1/10 th of the standard w.e.f Oct-2012 and hence the indian standards are now 10 times more stringent than over 90% countries in the world.

- TERM cell constituted by DOT will carry out random tests at tower sites at regular intervals in addition to specific complaints received by them
- Indus role in complying with the norms
  - To take over field measurements for Operator companies from Apr-2013
  - Reporting /Alert mechanism to ensure accountability of operator companies.
  - EMF levels are calculated for all the towers of all the Operator companies within 20 mtr radius and on all the buildings within 60 mtr radius.
- Operator Companies role in complying with the norms
  - Submission of "self certification"to DOT for EMF compliance of their sites.
- DOT (Govt. of India) role
  - Basis the TERM cell Report, conduct random check of 10% of sites declared as compliant.
  - To take punitive action against non-compliant operator companies

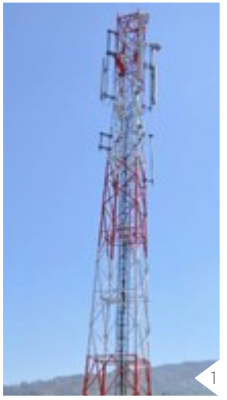
Tower Designs

Standard Towers

1. Ground Based Towers (GBT)

Erected on the ground with tower height of 30mtr to 80 mtr. A typical GBT site will comprise of

- 3/4 legged latticed galvanized steel tower for hoisting antennae
- Pre-fab shelter or weather protection shed for housing electri cal and electronics equipment.
- Power sources-Electricity from concerned SEBs/Battery Banks/ DG set
- Space requirement -2000 sqft installed mostly in rural and semi-urban areas because of the easy availability of land.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2. Roof Top Tower (RTT)

Erected on the roof/terraces of buildings of minimum (G+2) floors. A typical RTT site will comprise of

- 3/4 legged latticed galvanized steel tower for hoisting antennae with height ranging from 9mtr to 24 mtr
- Pre-fab shelter or weather protection shed for housing electrical and electronics equipment.
- Power sources-Electricity from concerned SEBs/Battery Banks/ DG set
- Space requirement -800 sqft installed mostly in urban and semi-urban areas because of the availability of buildings of requisite heights.

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3. Roof Top Pole (RTP)

Erected on the roof/terraces of high rise buildings. A typical RTP site will comprise of

- 3 to 9 poles with height ranging from 4mtr to 9 mtr. In structurally strong buildings possibility of monopole or pole with support can also be explored.
- Pre-fab shelter or weather protection shed for housing electrical and electronics equipment.
- Power sources-Electricity from concerned SEBs/Battery Banks/DG set
- Requirement of space depends on the placement location on the center of roof or corners of roof. In metro cities like Mumbai, Delhi, Bengaluru, Kolkata, Chennai, Hyderabad, Pune, Ahmedabad etc where high rise buildings are available, instead of towers poles are erected for installing antennae.


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