HBL Power Systems Limited offers state-of-the-art technology Precast Pre-stressed Spun Concrete Telecom Towers for Difficult Terrains. We take advantage of inherent strength of concrete and follow stringent quality control procedures.

We produce spun concrete monopole’s that offer best utility and value for money. Spun Concrete telecom tower is a ground based tower especially designed for urban areas where aesthetics needs to be maintained in a cramped and highly priced small ground space.

### Range

- 30 Meters
- 40 Meters
- 50 Meters

### Specifications of 40 Metre Tower:

- 40 Meter above the ground level
- Bottom dia 1.2 m & top dia 0.4 m
- Built in 4 segments of length 12 m +12 m +10.3 m+10.3 m (4 m below ground level)
- Weight around 34 Tonnes
- Can take up to 12 GSM & 16microwave antennae.
- Can withstand wind speed of 170 Kmph
- Internationally approved design
- Safety measures well addressed

### Codes & Standards / Approvals

- Indian standard IS 875 : 1987 (Part III) for telecom towers
- Approved  by IIT - Delhi

### Advantages

**Installation** of Spun Concrete Tower is faster, easier (with mobile crane) and ground space required is much less than traditional steel lattice towers & highly cost effective.

**Unsurpassed durability** of our product is the result of inherent properties of spun concrete technology & provides a high degree of mechanical rigidity to strong winds.

**Life** There is virtually no degradation even in the most severe weather conditions & long lasting.

**High strength** is achieved by a centrifugal casting process and use of pre-stressed steel wire cage. Centrifugal casting compacts and increases strength of the concrete. Pre-stressing steel wire cage allows ultimate moment capacities far beyond the on-set of cracking.

**Eco-Friendly Towers** The concrete tower has a lower environmental impact than traditional steel, consuming up to 40% less power from a life cycle perspective. This is because concrete results in less energy consumption and CO2 emission than steel during production and transport.

**Aesthetic** Spun concrete Tower is a free standing tower, smooth and slender.

**Low life time costs** are due to a virtual lack of required maintenance. There is no rotting or rusting to monitor.

**Competitive** than other options and offers both short term and long term cost saving.

**Camouflaging** best suited.

**Pilferage proof** unlike steel towers, portions of concrete tower cannot be cut.
Flexibility in Design
- Multiple antennae in different orientation
- Designs can be customized to facilitate optimum utilization of space by providing in-house space of Ø800mm x 3m (in the hollow portion of the tower) high from ground level to accommodate power systems and electronics (Eg: Towers for 4G)

Concrete Tower Vs Steel Tower at glance:

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Concrete Tower</th>
<th>Steel Tower</th>
</tr>
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<tbody>
<tr>
<td>Ground Space Required</td>
<td>3 Sq Meters</td>
<td>14 Sq Meters</td>
</tr>
<tr>
<td>Foundation</td>
<td>Single Foundation</td>
<td>Multiple Foundation</td>
</tr>
<tr>
<td>Manufacturing Time</td>
<td>2 Days</td>
<td>14 Days</td>
</tr>
<tr>
<td>Foundation Time</td>
<td>7 Days</td>
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<td>Erection Time</td>
<td>2 Days</td>
<td>10-15 Days</td>
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<tr>
<td>Bolts / Joints</td>
<td>3 Joints</td>
<td>More than 1000 Joints</td>
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<tr>
<td>Long Term Expenses</td>
<td>No Maintenance</td>
<td>Requires regular maintenance</td>
</tr>
<tr>
<td>Multiple Load Points</td>
<td>Always possible through the length of tower</td>
<td>No Changes are possible</td>
</tr>
<tr>
<td>Variation of cost on change in Antenna loading</td>
<td>Nominal</td>
<td>Huge</td>
</tr>
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