TAKING POWER PLACES
TRANSMISSION TOWERS

- Angles
- Fasteners
- Accessories
- EPC Line Construction
- Tower Load Testing
Skipper Ltd. is a 300 million USD company and the flagship entity of the S K Bansal Group among the largest tower manufacturers in the world. The leading manufacturer of transmission towers, MS & HT Angles, bolts, nuts and accessories among an exhaustive product basket. From being a leading tower manufacturer, we have evolved our value chain to produce fasteners, bolts, nuts and other accessories and integrated forward to also emerge as a successful EPC player in the tower business.

In-House Load Testing and R&D Center, approved by Dept. of Scientific and Industrial Research (DSIR), Govt. of India. Complete integrated transmission solutions provider.
Our status:
Skipper Limited is the largest tower manufacturer in India and also among the top 10 in the world. The company exports to more than 30+ countries across the globe.

Our background:
Skipper (established in 1981) is a flagship company of the S.K. Bansal Group. It has over 35 years of experience in manufacturing various value-added Steel products such as Telecom Towers, Hamilton Poles, Tubular Poles, ERW Tubes and Scaffoldings.

Our quality:
Skipper’s commitment towards product quality has made it the manufacturing partner of choice to the Powergrid - world’s largest transmission utility and also Ramboll - world’s largest tower design company (ISO 9001 certified).
Consider us.
Do you prefer a multi-faceted, versatile and energetic company or one that prefers less of action?

Our plants:
Skipper has state-of-the-art Engineering, Fabrication and Galvanizing facilities in-house, within the Company’s 4 Powergrid approved plants - 2 in Uluberia, 1 in Junglepore (West Bengal) and 1 in Guwahati (Assam).

Our EPC business:
A dedicated vertical for (EPC) services has been established with specialized skill set to execute turnkey projects in the towers’ domestic market.

Our health and safety measures:
Health and safety is one of the priority areas at Skipper. We are ISO 14001 and OHSAS 18001 certified.

Our In-house Tower Load Testing Station
Skipper has the largest Tower & Monopole Load Testing Station in India. The facility is designed to test all kinds of lattice towers, monopoles & guyed towers with world class technical parameters.
Power-packed!

Would you rather join hands with a company that is credited for being singularly pioneering or those that are run-of-the-mill?
Consider us.

At Skipper Limited, transmission towers are viewed not just as a product, but as a service. From designing and manufacturing of each component and prototyping and tower load testing to the erection and stringing of a customised tower, Skipper is present along the entire value in.

Did you know?

Within each transmission line, there are 15-20 structures including basic bodies, extensions and stubbs.

Each structure can have up to 800 unique parts, all of which are produced, assembled for proto checking and packed perfectly before shipping from Skipper.

400kV DC Twin TL - Panchkula - Patiala
Do you prefer a company that is highly specialized in its response to each and every order/customer, or a company that treats all orders in a similar vein?
At Skipper Limited, we offer our customers a full-range-cum-diverse product basket ranging from 66kV to 800kV Towers (Single Circuit, Double Circuit, Multi-Circuit Towers suitable for Twin, Quad and Hex Conductor configurations). Some typical tower configurations produced at Skipper are shown below:

Consider us.
Would you rather select a company that is engaged in critical manufacture of its products or one that manufactures without thought?
Facility highlights at Skipper

» Owns 4 Powergrid approved manufacturing plants
» Installed capacity of over 3,00,000 MT per annum
» 7 in-house galvanizing plants upto 12 m length, 2.5 m width and 3 m depth
» 57 Angle and Plate CNC lines
» Zero machine downtime with 4 units back-up
» In-House Tower Load Testing Station

» Nut bolt capacity of 600 MT per month i.e. 7200 MT per year
» In-house MS & HT Angle Rolling (upto 200 X 200 X 25) that guarantee all time availability
» Machinery and latest technology of manufacture is imported from Italy and China
» In-house Engineering and Drawing department to provide Optimized Design solutions for all client requirements

Consider us.

At Skipper Limited, we extend beyond mere manufacture to providing a service. Absorbing the latest technology, expansions and modernizations and de-bottlenecking of plants on an ongoing basis.
The company has 4 state-of-the-art manufacturing facilities, 2 in Uluberia, 1 in Junglepore, near Kolkata (West Bengal) and 1 in Guwahati (Assam).

<table>
<thead>
<tr>
<th>Unit 1</th>
<th>Unit BCTL</th>
<th>Unit Uluberia</th>
<th>Unit Guwahati</th>
<th>Total capacity per annum</th>
</tr>
</thead>
<tbody>
<tr>
<td>69,000 MT</td>
<td>36,000 MT</td>
<td>1,65,000 MT</td>
<td>30,000 MT</td>
<td>3,00,000 MT</td>
</tr>
</tbody>
</table>

Did you know?
Skipper has a much higher output almost by 15% per month than competitors.
The company has a fully automated ERP system for constant monitoring of its product batches.
Would you rather partner with a company that takes care of a product from inception to delivery or one that simply produces and forgets?

Consider us.

**Design and Engineering**
Skipper has a state of art in-house design facility with a strong team of Design Engineers and Draughtsmen who continuously develop innovative, construction friendly and cost effective designs. The company is equipped with the latest softwares like PLS Tower, PLS Pole, Tower- Cad & Auto-CAD is equipped to provide computerized engineering solutions, 3D analysis and design. The company has also designed various type of towers ranging from 33 kv to 500 kv HVDC and various types of monopoles. Major achievements include the designing and testing of 500 KV S/C and D/C towers for South American client Tower designed and tested successfully are:

- **Nigeria** - 132 kv D/C towers
- **Chile** - 500 kv, 220 kv D/C towers
- **Peru** - 500 kv S/C, 500 kv D/C towers
- **Spain** - 750 kv S/C Portal suspension tower

In house Tower Load Testing Station
Packing and Containerization

At Skipper, containerization is the manifestation of the company's ethos to care till the last mile for its valuable customers. Utmost care is taken to ensure all tower parts reach the end customer in sturdy sea-worthy packing for ease of handling during transportation from factory to installation site. All our plants are geared up to do single-tower bundling and factory-stuffing of containers for ensuring safe delivery to site.

Proper lashing, choking and fumigation are done to ensure international norms of packaging. Services of professional logistic enables best of shipping lines and fast delivery to our international customers. A dedicated fleet of transporters are engaged for transportation of towers to our domestic customers.
Would you prefer multiple companies to get your job done or a one-stop partner who provides you a turnkey solution?

Consider us.

At Skipper, motto is to be a leader in the Transmission Lines business and provide a one-stop solution to its brand-enhancing customers. A dedicated vertical of company has been established for EPC line construction with a specialized skill set to execute turnkey Transmission projects up to 800 kV.
Project Management & Execution

After achieving leadership and manufacturing excellence in Towers, Fasteners and its accessories, the company is currently involved in inculcating superior project management and execution expertise in its EPC business for clients and provide value-added turnkey solutions.

Resources

A perfect blend of critical key resources—people, equipments and a competitive network of service providers has enabled the Company to establish itself in the market.

People: The Company has a highly experienced and capable team of project management and project execution. It comprises project managers, surveyors, field engineers and skilled technicians. They are well experienced in their respective fields and well-versed, both with the conventional as well as advanced methods, of project execution.

Equipment: The Company possesses sophisticated tension-stringing machines, winches and other heavy duty construction equipments which give it a distinct edge to complete projects within a stringent time-frame.

OUR ONGOING EPC TRANSMISSION LINE PROJECTS

<table>
<thead>
<tr>
<th>SL NO</th>
<th>PROJECT DETAILS</th>
<th>CLIENT</th>
<th>LENGTH (KM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>± 800 KV HVDC RAIGARH - PUGALUR TRANSMISSION LINE (PACKAGE 09) (JV WITH UNITECH POWER TRANSMISSION LTD.)</td>
<td>PGCIL</td>
<td>180</td>
</tr>
<tr>
<td>2</td>
<td>400 KV D/C (TWIK) PANCHAULA - PATALYA TRANSMISSION LINE (JV WITH RANJIT SINGH &amp; COMPANY)</td>
<td>PGCIL</td>
<td>65.440</td>
</tr>
<tr>
<td>3</td>
<td>400 KV D/C (QUAD) BHAROLA - BIKANER TRANSMISSION LINE (JV WITH UNITECH POWER TRANSMISSION LTD.)</td>
<td>PGCIL / INABENSA</td>
<td>189.913</td>
</tr>
<tr>
<td>4</td>
<td>132 KV D/C (TWIN) BHAROLA - BIKANER TRANSMISSION LINE (PART I) (JV WITH RANJIT SINGH &amp; COMPANY)</td>
<td>PGCIL / INABENSA</td>
<td>146.363</td>
</tr>
<tr>
<td>5</td>
<td>400 KV D/C (TWIK) ALAHABAD - KANPUR TRANSMISSION LINE (PART I) (JV WITH RANJIT SINGH &amp; COMPANY)</td>
<td>PGCIL</td>
<td>45.233</td>
</tr>
<tr>
<td>6</td>
<td>220 KV / 132 KV DC / SC LINES AGAINST PACKAGE -3 OF TENDER SPECS. TD 400/15 (JV WITH SONAA ENGINEERING PVT LTD.)</td>
<td>RRVPNL</td>
<td>139</td>
</tr>
<tr>
<td>7</td>
<td>220 KV / 132 KV DC LINES AGAINST PACKAGE -2 OF TENDER SPECS. TD 400/15 (JV WITH SONAA ENGINEERING PVT LTD.)</td>
<td>RRVPNL</td>
<td>77</td>
</tr>
<tr>
<td>8</td>
<td>110 KV D/C PALAMPUR - JALANDHAR TRANSMISSION LINE (PARTIAL WORK) (JV WITH C&amp;C CONSTRUCTIONS LTD.)</td>
<td>DMRC</td>
<td>359.195</td>
</tr>
<tr>
<td>9</td>
<td>220 KV / 132 KV DC / SC LINES AGAINST PACKAGE -2 OF TENDER SPECS. TD 400/15 (JV WITH SONAA ENGINEERING PVT LTD.)</td>
<td>HPPTCL</td>
<td>429.19</td>
</tr>
<tr>
<td>10</td>
<td>02 Nos. Supply, Civil, Erection, Testing and commissioning of the equipment for construction of 220KV Height extension work of existing 220KV Transmission Line by 220KV MONOPOLY for DMRC.</td>
<td>HVPNL</td>
<td>359.195</td>
</tr>
<tr>
<td>11</td>
<td>220 KV Railway Electrification work in between Ludhiana to Sahibabad section.</td>
<td>SCIL / IRCON</td>
<td>10.6</td>
</tr>
<tr>
<td>12</td>
<td>110 KV Railway Electrification work between Sahibabad - Rumela section.</td>
<td>SCIL / IRCON</td>
<td>10.6</td>
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OUR COMPLETED EPC TRANSMISSION LINE PROJECTS

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Would you rather select a company that is quality-conscious by default or one that views quality control merely as an ISO mandate?

At Skipper Limited, quality is a way of life. We test and certify all that we manufacture so that our customers can be completely assured in the knowledge that they are being delivered the most genuine product.

"Largest Tower Supplier" award by PGCIL in Tower supply category for the 3rd consecutive year
Registration & Approvals

- Bureau of Indian Standards (ISI)
- ISO 9001, ISO 14001, ISO 18001
- Power Grid Corporation of India Limited (PGCIL)
- Egyptian Electricity Transmission Company (EETC)
- Bhutan Power Corporation
- Major State Electricity Boards of India (SEBs)
- Bvidcentral-Certificate of Conformity
- Kenya Transmission Company (KETRACO)
- Transmission Company of Nigeria (TCN)
- National Grid Corporation of Philippines (NGCP)
- Canadian Welding Bureau (CWB)
- CE (Europe)
- Ministry of Railways (RDSO)
- Damodar Valley Corporation
- Transmission Corporation of Andhra Pradesh Limited (APTRANSCO)
- Odisha Power Transmission Corporation Limited (OPTCL)
- The Karnataka Power Transmission Corporation Limited (KPTCL)
- Saudi Electric Company
- The Jordanian Electric Power Company Ltd.,
- RETIE, Colombia
- UKSEPRO
- LAPEM
- ACHILES
- SIRIM QAS, CE & CIDB

<table>
<thead>
<tr>
<th>Material Type</th>
<th>Indian Standard</th>
<th>International Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rolling &amp; Cutting tolerances (Hot Rolled Steel Products)</td>
<td>IS 1852</td>
<td>IEC 60826</td>
</tr>
<tr>
<td>Fabrication</td>
<td>IS 802</td>
<td></td>
</tr>
<tr>
<td>Mild Steel (Tower Material)</td>
<td>IS 2062:2011 (E250A)</td>
<td>BSEN 10025-1 &amp; 2 S275JR/J0, BSEN 10025-1 &amp; 2 ASTM A36/A36M</td>
</tr>
<tr>
<td>High Tensile Steel (Tower Material)</td>
<td>IS 2062:2011 (E350A)</td>
<td>BSEN 10025-1 &amp; 2 S355JR/J0, BSEN 10056-1 &amp; 2 ASTM A572 Gr-50</td>
</tr>
<tr>
<td>Galvanizing</td>
<td>IS 2629, IS 2633, IS 4759</td>
<td>BS 729, BSEN ISO 1461, ASTM A123, ASTM A153</td>
</tr>
<tr>
<td>Fasteners (Grades 5.6/5 &amp; 8.8/8)</td>
<td>IS 1367 (Part-360), IS 12427, IS 14394, IS 10238</td>
<td>BS 4198, ASTM A394, ASTM A563, DIN 555, DIN 7990, DIN 931, DIN 933, DIN 7990</td>
</tr>
</tbody>
</table>
Would you rather partner with a company which has repeatedly won the trust of every single customer or one that looks for short-term gains?

Consider us.

At Skipper Limited, we believe that the customer's project is OUR project and we are always ready to go the extra-mile to ensure we become the partner of choice to every buyer. Our customers and partner endorsements speak for themselves.
“Over the past six years, Skipper has supplied 400 KV and 765 KV Transmission Towers to 7 of EMC’s transmission projects. Their quality and commitment is quite good and we wish to take them as our preferred supplier in future also.” -RK Shah, President, EMC Ltd.

“Skipper is one of our most dependable Tower partners and we look forward to our association growing from strength to strength.” -SC Jha – SBU Head & VP, Tata Projects Ltd.

“Congratulations Skipper for successfully executing supplies for the difficult Multi-Circuit Towers (average tower weight more than 60 MT) to our Gaya-Kodarma T/L Project. We’ve found Skipper to be a reliable and quality-conscious manufacturer and look forward to working with them again.” -Santosh Thakur, Director – Shyama Power India Ltd.

“We are happy to have Skipper as a JV partner in 4 major Transmission Projects. Their product quality is excellent and their approach is highly professional and ethical.” -BS Gill, Managing Partner, Ranjit Singh & Co.

“Skipper has been a Ramboll manufacturing partner for more than 6 years and we have found them to be a fair and transparent Organization. We wish them all the best in their future endeavours.” -Trond M. Bredesen, COO – Ramboll Towers India & Global Production Director
Would you rather select a company that has resident intellectual capital or one that outsources most of its research and knowledge requirements to independent consultants?
At Skipper Limited, resident intellectual capital is the main driving force. Automated systems, integrated IT platforms and the access to real-time data enables smooth and seamless processes and delivery schedules. We run SAP across our company and also have a focused ERP for Tower production – Lighthouse.

The company has four state-of-the-art PGCIL – approved plants in Junglepore and Uluberia on NH-6 Kolkata, West Bengal, India.
Skipper has introduced barcoding facility for tower supply for the first time in India. Our ultimate goal is to minimize the pain points of customer pertaining to material management and planning at all locations, which ensures 100% receipt of materials as delivered. Key features of barcoding system have been listed below:

**Key Features:**

- Real time information sharing on materials supplied
- Consolidated information sharing on materials supplied
- Easy access to information pertaining to materials supplied
- Online information sharing
- No hardware or software requirement at site
- Hassle free joint verification can be carried out

**Benefits to customers:**

- Ensuring “Zero shortage” of materials supplied and received at site
- Hassle free joint verification can be carried out
- Efficient materials management (sorting, bundling and storage) at site.
- Minimal time required as compared to physical joint verification
- Ensuring efficient material handling and tracking from delivery to erection of towers.
Other Products

Monopole

A pioneer, Skipper Limited is the largest Monopole designing and manufacturing facility in India, armed with global expertise and intellectual capital. It has an application of upto 400 kV in Transmission Towers and for heights of up to 40 metres for Telecom Towers.

Telecom Towers

Skipper has state of the art facility for production of all types of ground based telecom towers and monopoles. With the advent of newer technologies skipper is also currently supplying various kinds of camouflaged towers which are basically monopoles made to look like palm tree, pine tree etc. We are already supplying tubular/Angular/Hybrid towers to various clients.

Poles

Skipper’s strength as a pole manufacturer and distributor ensures that its products find use in Power Transmission, Distribution and Lighting projects across India as well as in Gulf and African countries. Products manufactured include Tubular Swaged Poles, High Mast Poles, Octagonal Poles and Monopoles. The durability and quality of Skipper poles ensure reliability, durability, and ease of installation.

Railway Electrification

The company is gearing up to sharpen its focus on Railway electrification and intends to increasingly start bidding for such projects in strategic alliance with local private players initially. The company is in the process of adding more manpower and building capacities to handle all future railways related projects.