



SKIPPER UTILITY STRUCTURES

TUBULAR STEEL POLES

- 25 kV to 765 kV
- Direct-embedded, or base-plated on anchor bolt foundations
- Galvanized or weathering steel
- Pre-engineered standard class poles or custom poles
- Monopoles, H-frames, Y-structures, or other designs
- Tangents, angles, and deadends
- Slip-jointed or flange-jointed
- In-house pole testing facility



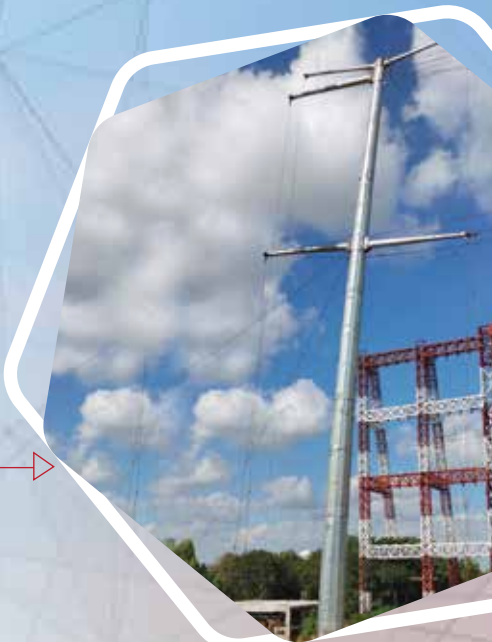
STEEL LATTICE TOWERS

- 66 kV to 800 kV
- Single, double, or multi-circuit
- Twin, quad, hex, or other conductor bundle configurations
- Tangents, angles, and deadends
- In-house tower testing facility



TRANSMISSION STRUCTURE TESTING STATION

- State-of-the-art facility capable of performing full-scale testing load testing on virtually any guyed or un-guyed monopole, H-frame, or lattice tower structures Ideal for validating structural designs and prototypes
- Maximum Test Tower Height – 110m
- Maximum Test Tower Base Width – 35m x 35m
- Maximum Compression / Uplift per Leg – 1000 Tonnes
- Allowable Overturning Moment – 60,000 Tonne-Metres
- Strain gauge type load cells utilized for measurements
- Structure testing station is available for contract work



SKIPPER
Limited

CIN:L40104WB1981PLC033408

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Skipper Limited welcomes the opportunity to quote on any of your upcoming Steel Distribution or Transmission Pole, H-frame, Lattice Tower, or Substation projects. Please send any quote requests, RFP's or bid documents directly to:
Brian Lacoursiere, P. Eng.
VP of Sales & Business Development, North America
Phone: 403-999-7732, E-Mail: Brian.L@skipperlimited.com

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SKIPPER
Limited

Building the Infrastructure Today to Meet the World's Energy Needs Tomorrow





ABOUT US

 Started as a family business in 1981, now a public entity listed on India's top stock exchanges BSE & NSE


 India's largest and amongst the top 10 manufacturers of transmission towers in the world

 Headquartered in Kolkata, India, Skipper has 4 state of the art manufacturing plants with an installed capacity of 300,000 Metric Tonnes per Year

 Skipper is the only integrated T&D company to incorporate activities across their value chain – angle rolling, steel pole and lattice tower manufacturing, prototype testing, load testing, and galvanizing

 In-house research center and full-scale load testing facility. Its

available for customers to do structure testing on a contract basis

 Also manufactures high-mast lighting structures, telecom towers, street lighting poles and railway electrification structures

 Footprints across 30+ countries around the globe including South America, Europe, Africa, the Middle East, South and Southeast Asia, Australia, and now also North America

 Winner of several awards & accolades one being nominated as the Largest Supplier of Transmission towers consecutively for 3 years by one of world's largest Transmission Utility "Power Grid Corporation of India Limited"



SKIPPER'S EXPERTISE & RESOURCES

- In-house engineering, design, and drafting resources
- Poles designed to meet ASCE Standard 48
- Towers designed in accordance with ASCE Standard 10
- PLS-Pole, PLS-CADD, PLS-Tower, and Caisson used for design
- AutoCAD and TOWER-CAD utilized for drawings
- In-house lab to verify mill certifications for raw materials
- Skipper has achieved and maintains ISO 9001, 14001, 18001 certifications
- Welding can be done to AWS or CWB procedures
- ASTM A572 and A871 steel available
- ASTM anchor bolts and hardware available
- Many years of successful export and container shipping experience



SKIPPER'S UTILITY STRUCTURE MANUFACTURING CAPACITY

- 4 steel pole/tower manufacturing plants with combined capacity of 300,000 Metric Tons/Year
- Fully backward integrated company, undertaking each and every activity in the entire value chain including angle rolling, fabrication, prototype assembly, load testing, and galvanizing
- Nut and bolt fabrication capacity of 600 Metric Tonnes/month (7200 Metric Tonnes/year)
- 2,400 Metric Ton x 12m press brake
- Large SAW seam welding equipment
- 57 angle and plate material CNC operated production lines
- 7 in-house galvanizing plants for sections up to 12m in length, 2.5m in width and 3m in depth
- In-house rolling capacity of 600 Metric Tonnes/month (7200 Metric Tonnes/year) for steel angle material up to 200mm x 200mm x 25mm
- Barcoding system helps to ensure "zero shortage" of materials delivered to site

