



Precision Testing,
Powering
TOMORROW'S
INFRASTRUCTURE



Registered Office

3A, Loudon Street, Kolkata- 700017, India P : +91 33 2289 5731 / 32 F : +91 33 2289 5733

Corporate Office

Tirumala Building (12th Floor), 22, East Topsia Road, Tiljala, Kolkata 700046, India

P : +91 33 2285 1231 /32 /33 F : +91 33 2289 5733

For More Queries Please Contact

Mr. Amjad Majeed

AVP - Engineering & Marketing

M : +91 7596034679 | Email: amjad.majeed@skipperlimited.com

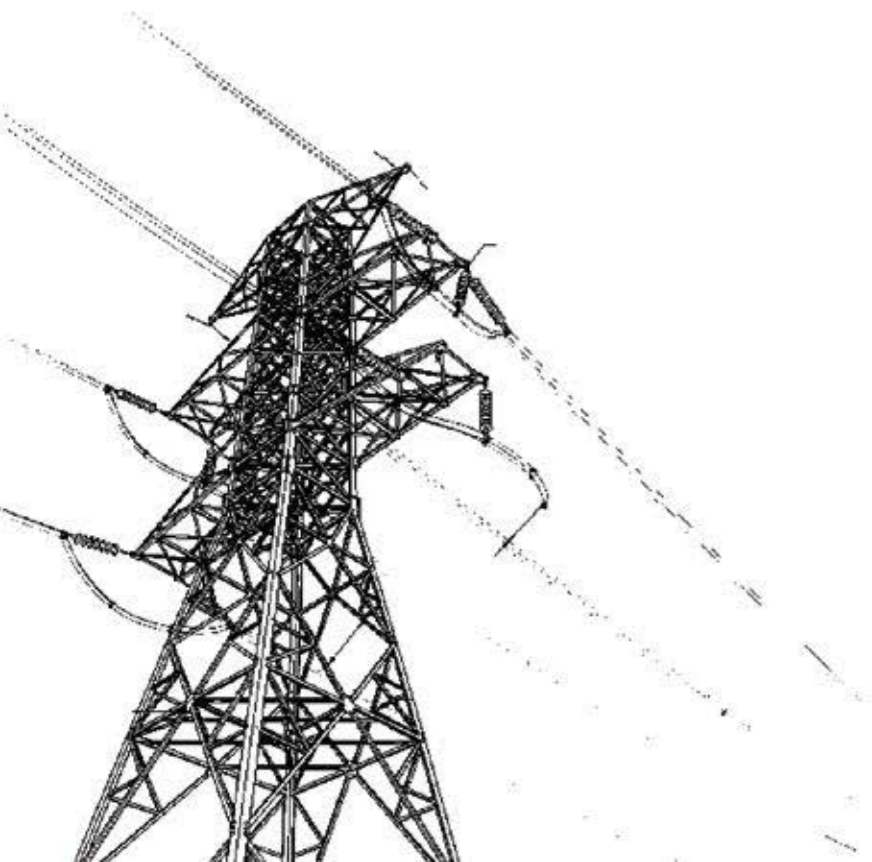
Website: www.skipperlimited.com



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Our Legacy

Skipper Limited, established in 1981, is one of India's largest and among the world's leading manufacturers of Power Transmission & Distribution structures. Backed by India's largest manufacturing capacity of 375,000 MTPA, Skipper delivers robust, high-quality infrastructure solutions across domestic and global markets. Our scale, technical expertise, and decades of manufacturing excellence we rank among the world's top 5 in the sector.



MISSION

Skipper is focused on enhancing our products and services to meet global infrastructure demands. We are also committed to reducing our carbon footprint by increasing our use of renewable energy resources. Customer satisfaction is our top priority. We strive to provide an exclusive range of pole products tailored to our customers' needs, and maximize our resources to ensure timely delivery of our products.

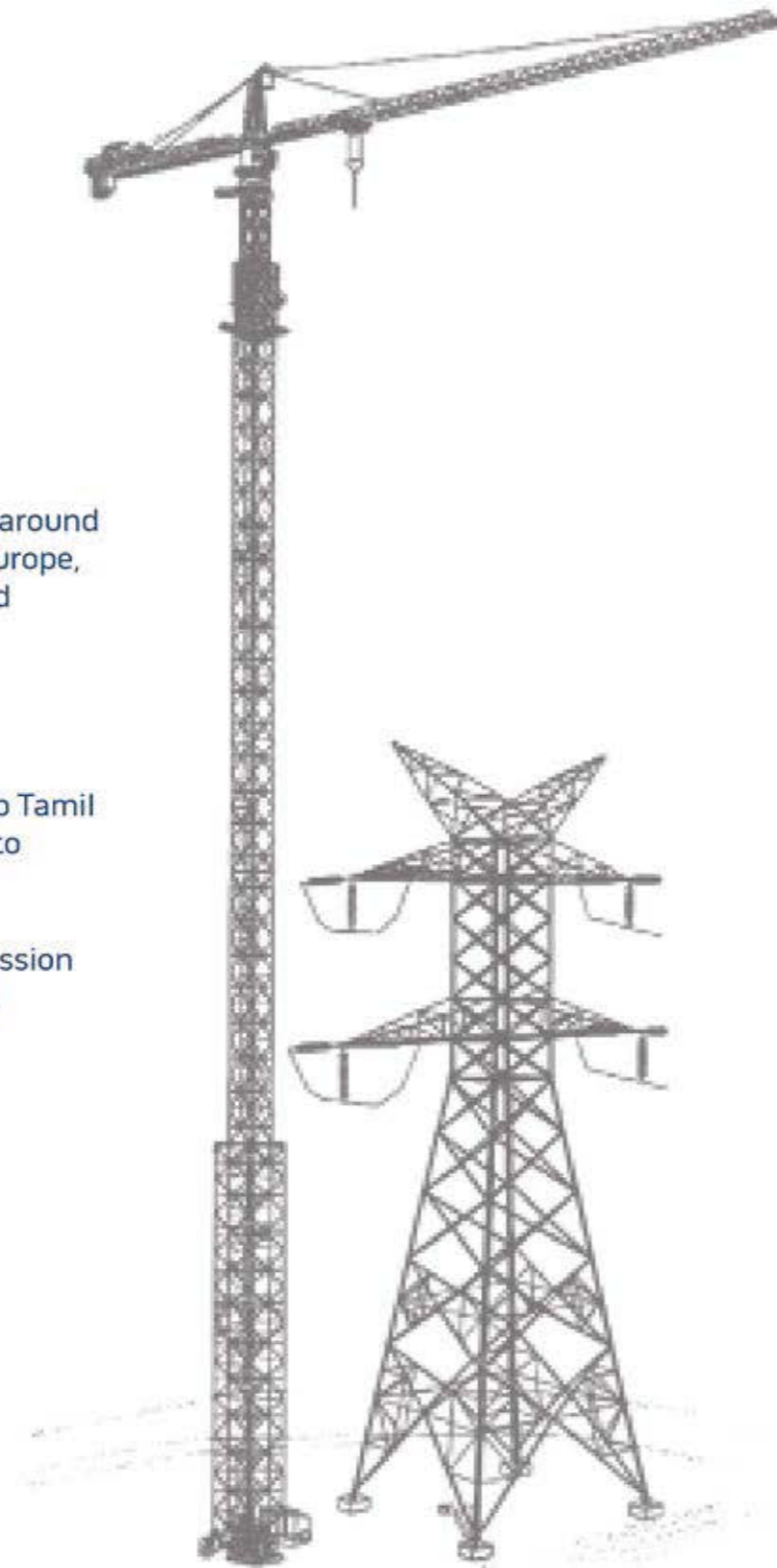
VISION

To produce world-class quality products, ensuring robust national infrastructure development and making India the preferred sourcing hub for global infrastructure needs.

At a Glance

- » Established in 1981, Skipper is among India's Largest and World's leading manufacturer of Power Transmission & Distribution Structures, with a manufacturing capacity of **375000 MTPA**
- » 4 State of the art, Power Grid approved Plants in West Bengal & Guwahati
- » Fully backward Integrated Transmission Tower manufacturing company with in-house Angle Rolling, Tower, Accessories, Fastener manufacturing and EPC line construction

- » Footprints across **65+ countries** around the globe from South America, Europe, Africa, the Middle East, South and Southeast Asia and Australia
- » Within India, we are a preferred manufacturer of choice for our customers pan India, from J&K to Tamil Nadu and from North East India to Gujarat
- » Winner of Largest Power Transmission Tower Supplier award from PGCIL consecutively for 3 years



Why Skipper Is the Preferred Choice for All

Continue adding value added products and services to our portfolio

Continue focusing on sectors of power and water as per contemporary global demand

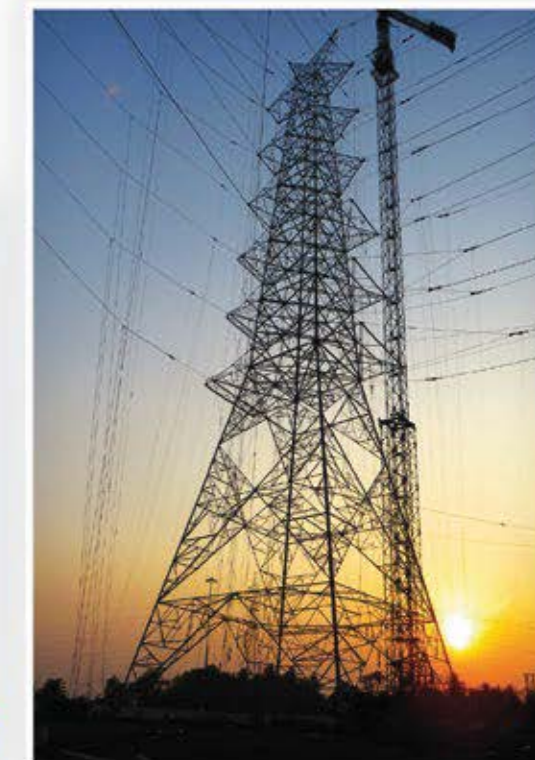
Continue tapping newer geographies to add on to existing countries

Ensure greater Scale and technology for a longer duration of existence

Reduce carbon footprints and evolve towards reduced consumption of hydrocarbons and non-conventional and renewable energy sources



400kV D/C



400/132kV M/C

Ensuring Strength & Safety: Transmission Line Tower Testing

- » Only **Dual Testing Facility** in the world with two standalone Testing Stations at one address with **World Class** Technical Parameters
- » In-house prototype manufacturing facility with a capacity of **12,000 MTPA**
- » Robust Backward Integration for timely supply of raw material and fasteners
- » 24x7 Operations to ensure fastest Turnaround Time, the highest in the industry
- » **ISO 9001** (Quality), **ISO 14001** (Environment) and **ISO 45001** (Occupational Health & Safety) Certified

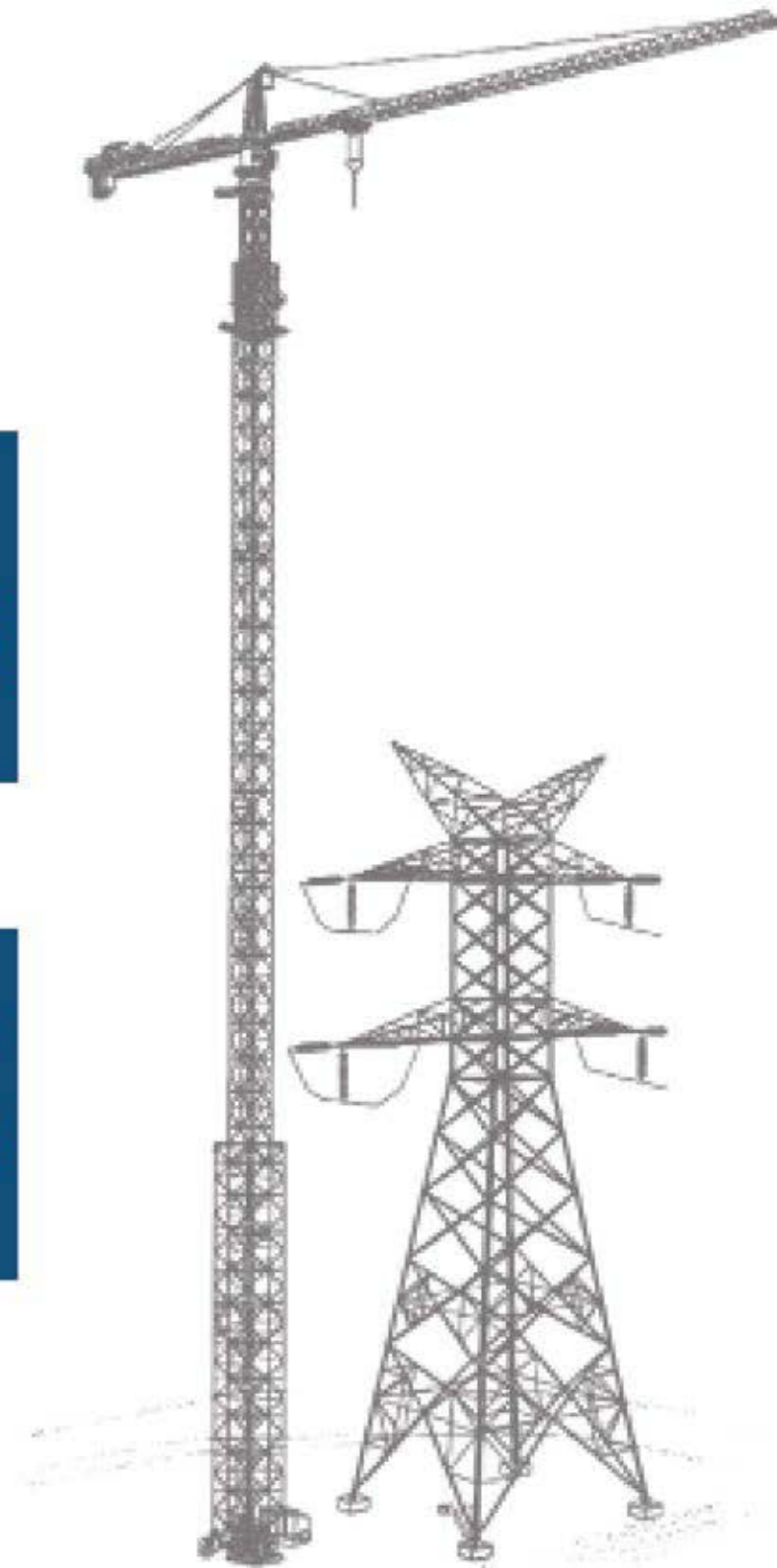
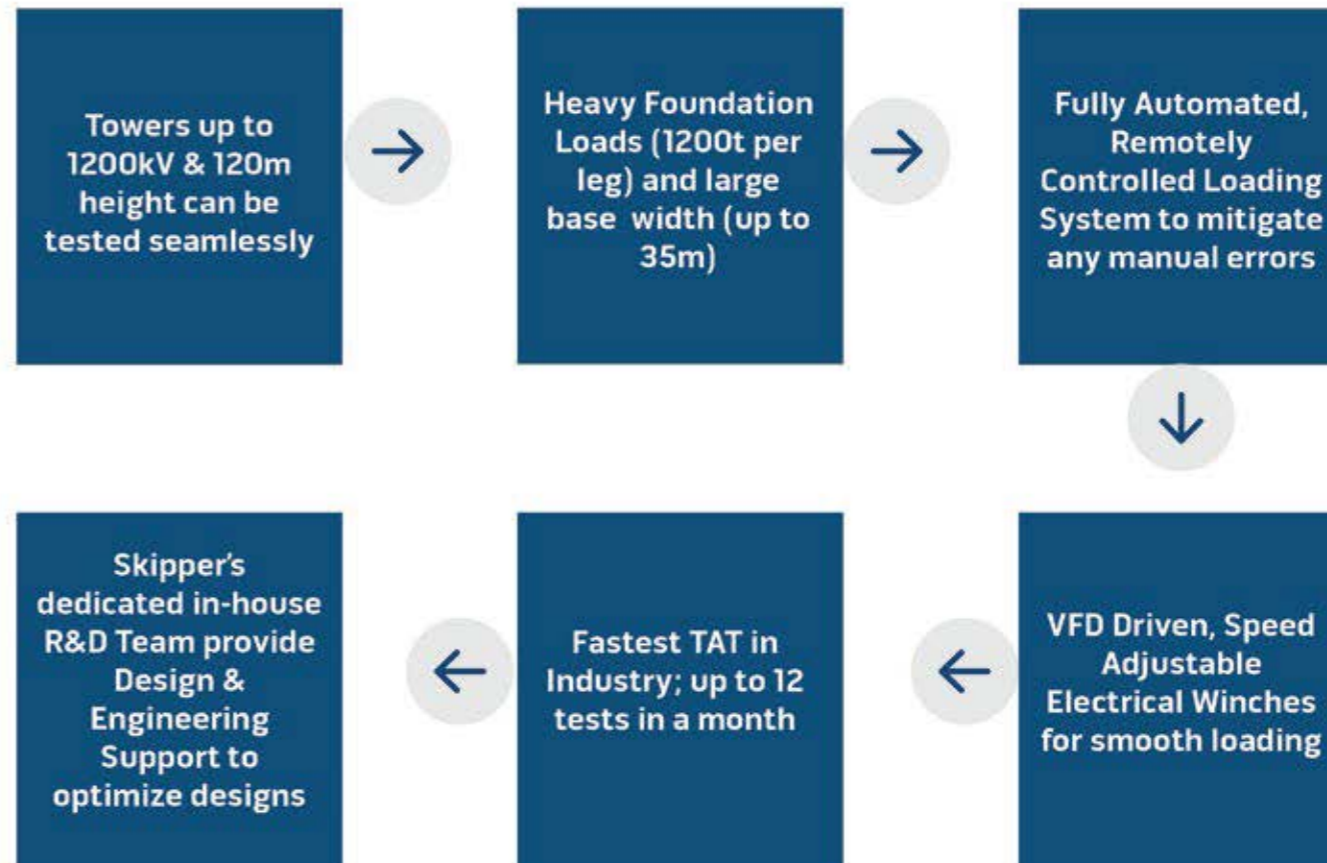


765kV D/C

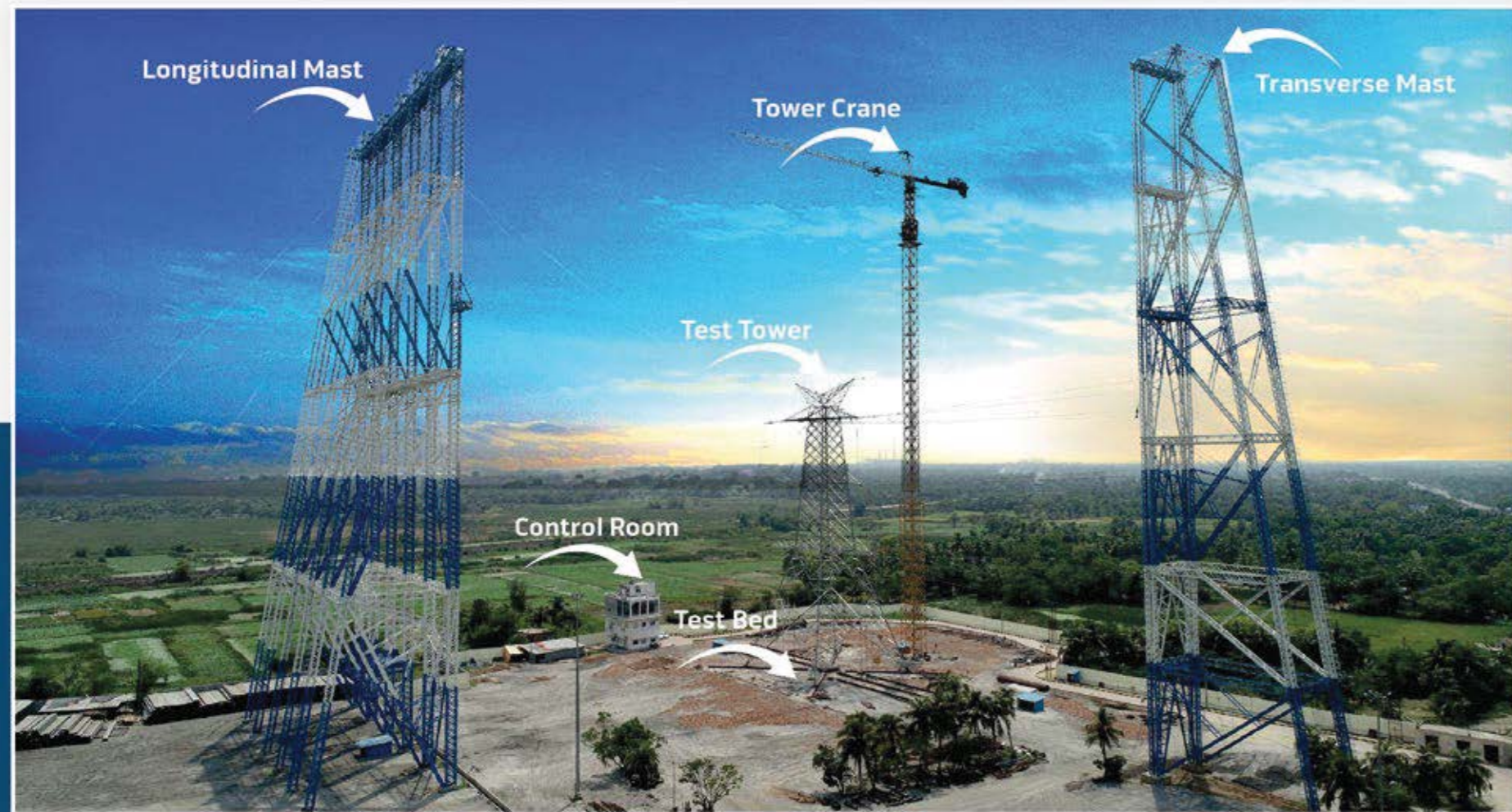


400kV DC Twin TL

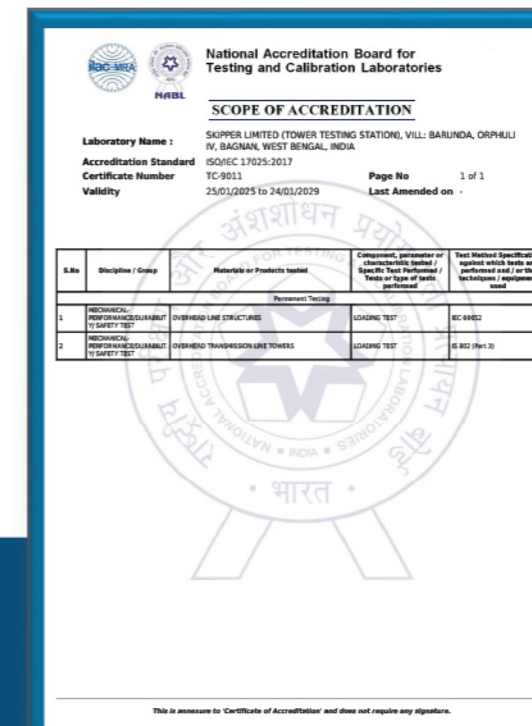
Skipper's Core Capabilities



World-Class Testing Infrastructure



Quality Assurance & Control



Accredited for Standard ISO/IEC 17025:2017 by NABL (linked to ILAC & APAC)

- » NABL- National Accreditation Board for Testing and Calibration Laboratories
- » ILAC- International Laboratory Accreditation Cooperation
- » APAC- Asia Pacific Accreditation Cooperation Inc.
- » NABL is equivalent to The National Association of Testing Authorities (NATA)
- » NABL is similar to the Polish Centre for Accreditation (PCA)

The Skipper Value Advantages

- » Dual Test Beds allow simultaneous testing of two towers. Customer can witness two towers in a visit saving cost and time
- » In house prototype manufacturing ensures delivery of prototype in time for the scheduled testing date
- » Repair/Replacement of failed/damaged members during proto assembly and/or testing in a real quick time
- » Only testing station to work 24x7
- » Monitoring with High Definition PTZ Cameras & Drone Camera



- 12 Towers tested March-23
- 8 Tests on Average per month

Detailed Specifications and Technical Parameters

Test Bed 1.0 Test Bed 2.0*

| | | |
|-------------------------------------|------------------------------------------------|-----------------------------------------------------------|
| Maximum Test Tower Base Width | -35m x 35m (115ft x 115ft) | -24m x 24m (79ft x 79ft) |
| Maximum Test Tower Height | -120m (394ft) | -80m (262ft) |
| Maximum Compression/ Uplift per Leg | -1200t (2645kip) | -650t (1433kip) |
| Allowable Overturning Moment | -60,000 kN-m (44,254 kip-ft) | -130,000 kN-m (95,883 kip-ft) |
| Maximum Tower Test Voltage | -1200kV | -765kV |
| Maximum Cross Arm Spread | -70m (230ft) | -30m (98ft) |
| Maximum Transverse Wire Load | -120t (265kip) per point | -80t (176kip) per point |
| Maximum Longitudinal Wire Load | -80t (176kip) per point | -80t (176kip) per point |
| Maximum Vertical Wire Load | -60t (132kip) per point | -40t (88kip) per point |
| Load Application System | -5t & 10t capacity Electrical Operated Winches | -5t & 10t capacity Electrical Operated Winches |
| Load Measurement System | -Strain Gauge Type Load Cell | -Strain Gauge Type Load Cell |
| Material Testing and Calibration | -60t (132kip) digital UTM | -60t (132kip) digital UTM |
| Tower Erection through | -10t (22kip) Tower Crane | -12t (22kip) Tower Crane |
| Type & Structures | -Square & Rectangle Lattice Towers & Poles | -Heavy Poles, Dual Poles, Guyed Towers and Lattice Towers |

Overview of some Towers Tested at Our Facility



500kV Australia



500kV HVDC Egypt



400kV D/C Quad Moose Monopole

Overview of some Towers Tested at Our Facility



765kV S/C Monopole for India



765kV India



220kV D/C Kuwait

- Catered to 21 Countries
- 60 Utilities Across Globe

351 Tests Completed by Jan-26

Overview of Transmission Components Tested at Our Facility



220kV Substation Column India



400kV Composite Insulated X-Arm India (CICA)



500kV V-String Australia



220kV Substation Beam India

Test bed equipped with different structure testing Capabilities

Real-Time Remote Tower Testing Monitoring

The customers can witness the whole testing activity from the comfort of their offices & homes. Skipper is providing virtual platform through various video conferencing portals to check both visuals of the test tower and loading screens

