

Now Available

# POWER TRANSMISSION IN INDIA 2018

Segment Trends and Developments; Outlook and Projections

- ❖ Report (PDF)
- ❖ Data-set (Excel)

**SECTION I: MARKET SIZE, TRENDS AND DEVELOPMENTS**

1. **Executive Summary**
2. **Size and Growth**
  - ❖ Growth in Transmission Line Length (by ownership and by voltage)
  - ❖ Growth in Transmission Transformer Capacity (by ownership and by voltage)
  - ❖ Trend in Substation Additions (by ownership and by voltage)
  - ❖ Growth in Inter-regional Transfer Capacity
  - ❖ Growth in Transmission against Generation Capacity
  - ❖ Growth in Total transfer Capability
  - ❖ Trend in Network Reliability
  - ❖ Trend in Sector Investments
  - ❖ Key Issues and Challenges
  - ❖ Outlook
3. **Recent Developments**
  - ❖ Railways' Transmission System Development Plans
  - ❖ Competition in Intra-state Transmission
  - ❖ Strengthening Cross-border Links
  - ❖ Update on High Capacity Power Transmission Corridors
  - ❖ Cybersecurity for Critical Energy Infrastructure
  - ❖ Reducing Transmission Congestion
  - ❖ Impact of EV Penetration on Grid Operators and Transcos
  - ❖ Developments in Ancillary Services Market
  - ❖ Consolidation Moves/M&A Deals
  - ❖ Key Financings
4. **Policy and Regulatory Developments**
  - ❖ Draft National Energy Policy
  - ❖ Electricity Act (Amendment) Bill
  - ❖ Draft SDB for Intra-state Transmission Projects
  - ❖ Draft Regulations- Transmission Planning, GNA, Cross-border Trade
  - ❖ Regulations on Communication System for Interstate Electricity Transmission
  - ❖ Other Key Amendments
5. **Private Sector Participation**
  - ❖ Experience so Far
  - ❖ Tariff-based Competitive Bidding (TBCB)
  - ❖ Private Participation at Interstate level
  - ❖ Private Participation at Intra-state level
  - ❖ Key Issues and Concerns
6. **Transmission Tariffs**
  - ❖ Point of Connection Methodology and Charges
  - ❖ Interstate Transmission Tariffs
  - ❖ Intra-state Transmission Tariffs

7. **Project Pipeline**
  - ❖ Overall pipeline
  - ❖ Interstate Projects
    - Line Length (by voltage and utility)
    - Transformer Capacity (by voltage and utility)
  - ❖ Intra-state Projects
    - By Line Length (by voltage and utility)
    - By Transformer Capacity (by voltage and utility)

**SECTION II: INTERTRANSCO COMPARISON**

8. **Network Growth and Operational Performance**
  - ❖ Transmission Line Length
  - ❖ Transformer Capacity
  - ❖ Number of substations
  - ❖ Transmission Losses
  - ❖ System Availability
9. **Financial Performance**
  - ❖ Trends in Utility-wise Revenues
  - ❖ Trends in Utility-wise Expenditure
  - ❖ Trends in Utility-wise Net Profit
  - ❖ Trends in O&M Costs
  - ❖ Trends in Capital Expenditure
  - ❖ Debt/Equity Ratio

**SECTION III: OUTLOOK AND PROJECTIONS**

10. **Network Growth and Investments (till 2022-23)**
  - ❖ Projected Line Length Additions
  - ❖ Projected Transformer Capacity Addition
  - ❖ Project Addition to Substations
  - ❖ Expansion in Interregional Transfer Capacity
  - ❖ Investment Projections
  - ❖ TBCB Opportunities at Interstate and Intra-state Levels
  - ❖ Key Issues and Concerns
  - ❖ Future Outlook
11. **Equipment Requirements (till 2022-23)**
  - ❖ Growth Drivers
  - ❖ Projected Demand for Equipment
    - Towers
    - Conductors
    - Power Transformers
    - Switchgears

## SECTION IV: KEY PROJECTS AND TECHNOLOGY INITIATIVES

## 12. Renewable Energy Integration Projects

- ❖ Projected Renewable Energy Capacity Addition
- ❖ Challenges in Grid Integration of Renewable Energy
- ❖ Renewable Energy Management Centres

## 13. Tariff-based Competitive Bidding Projects

- ❖ Interstate Projects
  - Status of Projects Awarded so Far
  - Projects under Bidding
  - New Project Pipeline
- ❖ Intra-state projects
  - Status of Projects Awarded so Far
  - Projects under Bidding
  - New project Pipeline

## 14. Cross-Border Interconnections

- ❖ Existing Interconnections
  - India-Bangladesh
  - India-Nepal
  - India-Bhutan
- ❖ Ongoing Interconnection Projects
- ❖ Interconnections under Planning
- ❖ Issues and Challenges

## 15. New and Promising Technologies: Plans and Pilots

- ❖ Overview
- ❖ Technology adoption by POWERGRID
  - HVDC and UHVAC
  - FACTS
  - PMU/URTDSM
  - PST
  - UAV and Aerial Technologies
  - Digital Substations
  - GIS
- ❖ Technology Initiatives of State Utilities

## SECTION V: TRANSMISSION UTILITY PROFILES

## 16. Central Transmission Utilities

- ❖ Power Grid Corporation of India Limited
- ❖ Damodar Valley Corporation
- ❖ Bhakra Beas Management Board

## 17. State Transmission Utilities

- ❖ Gujarat Energy Transmission Corporation Limited
- ❖ Maharashtra State Electricity Transmission Company Limited
- ❖ Karnataka Power Transmission Corporation Limited
- ❖ Rajasthan Rajya Vidyut Prasaran Nigam Limited
- ❖ Madhya Pradesh Power Transmission Company Limited
- ❖ Uttar Pradesh Power Transmission Corporation Limited
- ❖ Tamil Nadu Transmission Corporation Limited
- ❖ Transmission Corporation of Andhra Pradesh Limited
- ❖ Transmission Corporation of Telangana Limited
- ❖ Haryana Vidyut Prasaran Nigam Limited
- ❖ Orissa Power Transmission Corporation Limited
- ❖ West Bengal State Electricity Transmission Company Limited
- ❖ Punjab State Transmission Corporation Limited
- ❖ Chhattisgarh State Power Transmission Company Limited
- ❖ Kerala State Electricity Board Limited
- ❖ Bihar State Power Transmission Company Limited
- ❖ Assam Electricity Grid Corporation Limited
- ❖ Himachal Pradesh Power Transmission Corporation Limited
- ❖ Jharkhand Urja Sancharan Nigam Limited
- ❖ Jammu and Kashmir Power Development Department
- ❖ Power Transmission Corporation of Uttarakhand Limited
- ❖ Meghalaya Power Transmission Corporation Limited
- ❖ Delhi Transco Limited
- ❖ Tripura State Electricity Corporation Limited

## 18. Private Transmission Companies

- ❖ Adani Transmission Limited
- ❖ Reliance Infrastructure Limited
- ❖ Sterlite Power Transmission Limited
- ❖ Essel Infraprojects Limited
- ❖ Kalpataru Power Transmission
- ❖ Instalaciones Inabensa S.A.
- ❖ Essar Power Transmission Company Limited
- ❖ L&T Infrastructure Projects Limited
- ❖ Techno Electric & Engineering Company Limited
- ❖ Other companies

### List of Tables

Growth in Transformer Capacity (By Voltage)	Substation Capacity Addition Plans of Select Utilities (MVA)	GETCO's Performance Indicators
Progress so far (As of January 2018)	Estimated Number of Substations to be Added from 2017-18 to 2022-23	GETCO's Number of Transformers by Voltage
Status of HCPTC (As on August 31, 2017)	Substation Addition Plans of Select Utilities (No.)	GETCO's Capacitor Base by Voltage (MVA)
Consistent Reduction in Transmission Congestion	Projected Growth in Capex (Rs billion)	GETCO's Financial Performance (Rs million)
RRAS providers (February 16, 2018 to March 15, 2018)	Summary of Transmission Network Growth Projections	GETCO's Future Plans
Region-wise energy dispatch in ancillary services (January 2018)	Estimated No. of Towers and Tower Tonnage Requirements during 2018-19 to 2022-23	MSETCL's Transmission Line Length by Voltage (ct. km)
Payment to RRAS providers from the DSM pool for regulation up and regulation down (January 2018)	Estimated Aluminium and Steel Tonnage Requirement for Conductors during 2018-19 to 2022-23	MSETCL's Number of Substations by Voltage
Key M&A deals in the segment	Estimated No. of Power Transformer Requirement during 2018-19 to 2022-23	MSETCL's Substation Capacity by Voltage (MVA)
Key financings in the segment	Estimated No. of Switchgear Units Required during 2018-19 to 2022-23	MSETCL's Number of Transformers by Voltage
Broad Principles of Transmission Planning	Financing Strategy	MSETCL's Performance Indicators
Key features of the draft SBD for intra-state transmission projects	GEC-I ISTS Schemes Summary	MSETCL's Financial Performance (Rs million)
Requirements to be met by the bidding company/bidding consortium	Status of ISTS Projects under GEC-I (as of December 2017)	MSETCL's Capacitor Base by Voltage (MVA)
Projects Awarded to Private Players under TBCB	Status of ISTS Projects under GEC-I (as of December 2017)	MSETCL's Future Plans
Inter-state Transmission Projects Developed by Private Players through TBCB (As of January 2018)	State-wise Solar Park Capacity Sanctioned by MNRE (as of January 2018)	KPTCL's Transmission Line Length by Voltage (ct. km)
Under-construction Interstate Projects by Private Players through TBCB (As of January 2018)	Status of ISTS Schemes for Solar Parks (as of December 2017)	KPTCL's Number of Substations by Voltage
Intra-state Transmission Projects Developed by Private Players (As of January 2018)	Commissioned Projects (As of January 2018)	KPTCL's Substation Capacity by Voltage (MVA)
Under-construction Intra-state Projects	Under-construction Projects (As of February 2018)	KPTCL's Performance Indicators
Approved Zonal PoC Slab rates for LTA/MTOA (January-March 2018)	Cancelled/Under-litigation Projects (As of January 2018)	KPTCL's Number of Transformers by Voltage
Approved PoC Slab rates for STOA (January-March 2018)	Upcoming/Under-bidding Projects (As of January 2018)	KPTCL's Capacitor Base by Voltage (MVA)
Powergrid's Income from Transmission Charges (Rs million)	Commissioned Projects	KPTCL's Financial Performance (Rs million)
Intra-state Transmission Tariff of State Utilities (Long-Term Access)	Under-construction Projects	KPTCL's Future Plans
Intra-state Transmission Tariff of State Utilities (Short-Term Open Access)	Upcoming/Under-bidding TBCB Projects in Jharkhand	RRVNL's Transmission Line Length by Voltage (ct. km)
SLDC Charges of State Utilities	Prospects for Electricity Trade in South Asia	RRVNL's Number of Substations by Voltage
Sector-wise Break-up of Under-development Transmission Lines (ct km)	India-Bangladesh transmission interconnections (Existing)	RRVNL's Substation Capacity by Voltage (MVA)
Sector-wise Break-up of Under-development Substation Capacity (MVA)	India-Bhutan transmission interconnections (Existing)	RRVNL's Performance Indicators
Breakup of Under-development Interstate Lines - By Developer	Existing connections between India-Nepal	RRVNL's Number of Transformers by Voltage
Breakup of Under-development Interstate Substation Capacity - By Developer	Under-Construction Cross-Border Interconnection Projects - India and Bhutan	RRVNL's Capacitor Base by Voltage (MVA)
Upcoming Interstate Projects	Under-Construction Cross-Border Interconnection Projects - India and Bangladesh	RRVNL's Financial Performance (Rs million)
Voltage-wise Break-up of State Utilities' Line Length for 2016-17 (ct. km)	Under-Construction Cross-Border Interconnection Projects - India and Nepal	RRVNL's Future Plans
Growth in State Utilities' Line Length: 2012-13 to 2016-17 (ct. km)	Transmission Interconnections under Planning - India and Bhutan	MPPTCL's Transmission Line Length by Voltage (ct. km)
Voltage-wise Break-up of State Utilities' Transformer Capacity for 2016-17 (MVA)	Transmission Interconnections under Planning - India and Bangladesh	MPPTCL's Number of Substations by Voltage
Growth in State Utilities' Transformer Capacity (MVA): 2012-13 to 2016-17	Comparison of Power Transfer Intensity at Various Voltage Levels	MPPTCL's Substation Capacity by Voltage (MVA)
Voltage-wise Break-up of State Utilities' Substations for 2016-17 (No.)	Existing and Ongoing HVDC Projects in India	MPPTCL's Performance Indicators
Growth in State Utilities' Substation Numbers: 2012-13 to 2016-17	Comparison of various FACT devices	MPPTCL's Number of Transformers by Voltage
Utility-wise Transmission Loss Trend (%): 2012-13 to 2016-17	Powergrid's Transmission Line Length by Voltage (ct km)	MPPTCL's Capacitor Base by Voltage (MVA)
Utility-wise System Availability Trend (%): 2012-13 to 2016-17	Powergrid's Number of Substations	MPPTCL's Financial Performance (Rs million)
Utility-wise Trend in Revenues from 2012-13 to 2016-17 (Rs million)	Powergrid's Year-wise Substation Capacity	MPPTCL's Future Plans
Utility-wise Trend in Expenditure from 2012-13 to 2016-17 (Rs million)	Powergrid's Performance Indicators	UPPTCL's Transmission Line Length by Voltage (ct. km)
Utility-wise Trend in O&M Cost from 2012-13 to 2016-17 (Rs million)	Powergrid's Financial Performance (Rs million)	UPPTCL's Number of Substations by Voltage
Utility-wise Trend in Net Profit/Loss from 2012-13 to 2016-17 (Rs million)	Powergrid Outlook (As of December 2017)	UPPTCL's Substation Capacity by Voltage (MVA)
Utility-wise Trend in Capex from 2012-13 to 2016-17 (Rs million)	Powergrid's Capex Plan	UPPTCL's Performance Indicators
Utility-wise Trend in Debt-Equity Ratio from 2012-13 to 2016-17	Powergrid's Key Upcoming Transmission Line Projects (As of January 2018)	UPPTCL's Capacitor Base by Voltage (MVA)
Summary of Powergrid's Under-construction Line Length (ct km)	Powergrid's Key Upcoming Substation Projects (As of January 2018)	UPPTCL's Financial Performance (Rs million)
Line Length Addition Plans of Select Utilities (ct km)	DVC's Transmission Line Length by Voltage (ct km)	UPPTCL's Future Plans
Summary of Powergrid's Under-construction Substations (MVA)	DVC's Year-wise Substation Capacity (MVA)	TANTRANSCO's Transmission Line Length by Voltage (ct. km)
	DVC's Financial Performance (Rs million)	TANTRANSCO's Number of Substations by Voltage
	DVC's Key Upcoming Transmission Line Projects (As of January 2018)	TANTRANSCO's Substation Capacity by Voltage (MVA)
	DVC's Key Upcoming Substation Projects (As of January 2018)	TANTRANSCO's Performance Indicators
	BBMB's Transmission Line Length (ct km) and Number of Substations by Voltage	TANTRANSCO's Financial Performance (Rs million)
	GETCO's Transmission Line Length by Voltage (ct. km)	TANTRANSCO's Future Plans
	GETCO's Number of Substations by Voltage	AP Transco's Transmission Line Length by Voltage (ct. km)
	GETCO's Substation Capacity by Voltage (MVA)	AP Transco's Number of Substations by Voltage
		AP Transco's Substation Capacity by Voltage (MVA)
		AP Transco's Performance Indicators
		AP Transco's Financial Performance (Rs million)
		AP Transco's Future Plans
		TS Transco's Transmission Line Length by Voltage (ct. km)
		TS Transco's Number of Substations by Voltage
		TS Transco's Substation Capacity by Voltage (MVA)
		TS Transco's Performance Indicators
		TS Transco's Financial Performance (Rs million)
		TS Transco's Future Plans
		HVPNL's Transmission Line Length by Voltage (ct. km)
		HVPNL's Number of Substations by Voltage
		HVPNL's Substation Capacity by Voltage (MVA)
		HVPNL's Performance Indicators

HVPNL's Financial Performance (Rs million)  
 HVPNL's Future Plans  
 OPTCL's Transmission Line Length by Voltage (ct. km)  
 OPTCL's Number of Substations by Voltage  
 OPTCL's Substation Capacity by Voltage (MVA)  
 OPTCL's Performance Indicators  
 OPTCL's Number of Transformers by Voltage  
 OPTCL's Capacitor Base by Voltage (MVA)  
 OPTCL's Financial Performance (Rs million)  
 OPTCL's Future Plans  
 WBSETCL's Transmission Line Length by Voltage (ct. km)  
 WBSETCL's Number of Substations by Voltage  
 WBSETCL's Substation Capacity by Voltage (MVA)  
 WBSETCL's Performance Indicators  
 WBSETCL's Financial Performance (Rs million)  
 WBSETCL's Future Plans  
 PSTCL's Transmission Line Length by Voltage (ct. km)  
 PSTCL's Number of Substations by Voltage  
 PSTCL's Substation Capacity by Voltage (MVA)  
 PSTCL's Performance Indicators  
 PSTCL's Number of Transformers by Voltage  
 PSTCL's Capacitor Base by Voltage (MVA)  
 PSTCL's Financial Performance (Rs million)  
 PSTCL's Future Plans  
 CSPTCL's Transmission Line Length by Voltage (ct. km)  
 CSPTCL's Number of Substations by Voltage  
 CSPTCL's Substation Capacity by Voltage (MVA)  
 CSPTCL's Performance Indicators  
 CSPTCL's Number of Transformers by Voltage  
 CSPTCL's Capacitor Base by Voltage (MVA)  
 CSPTCL's Financial Performance (Rs million)  
 CSPTCL's Future Plans  
 KSEBL's Transmission Line Length by Voltage (ct. km)  
 KSEBL's Number of Substations by Voltage  
 KSEBL's Substation Capacity by Voltage (MVA)  
 KSEBL's Performance Indicators  
 KSEBL's Financial Performance (Rs million)  
 KSEBL's Future Plans  
 BSPTCL's Transmission Line Length by Voltage (ct. km)  
 BSPTCL's Number of Substations by Voltage  
 BSPTCL's Substation Capacity by Voltage (MVA)  
 BSPTCL's Performance Indicators  
 BSPTCL's Financial Performance (Rs million)  
 BSPTCL's Future Plans  
 AEGCL's Transmission Line Length by Voltage (ct. km)  
 AEGCL's Number of Substations by Voltage  
 AEGCL's Substation Capacity by Voltage (MVA)  
 AEGCL's Performance Indicators  
 AEGCL's Number of step-down transformers  
 AEGCL's Capacitor Base by Voltage (MVA)  
 AEGCL's Financial Performance (Rs million)  
 AEGCL's Future Plans  
 HPPTCL's Transmission Line Length by Voltage (ct. km)  
 HPPTCL's Number of Substations and Transformer Capacity by Voltage (2014-15)  
 HPPTCL's Performance Indicators  
 HPPTCL's Financial Performance (Rs million)  
 HPPTCL's Future Plans  
 JUSNL's Transmission Line Length by Voltage (ct. km)  
 JUSNL's Number of Substations by Voltage  
 JUSNL's Substation Capacity by Voltage (MVA)  
 JUSNL's Performance Indicators  
 JUSNL's Number of Transformers by Voltage  
 JUSNL's Future Plans  
 JKPDD's Transmission Line Length by Voltage (ct. km)  
 JKPDD's Number of Substations by Voltage

JKPDD's Substation Capacity by Voltage (MVA)  
 JKPDD's Performance Indicators  
 JKPDD's Financial Performance (Rs million)  
 JKPDD's Future Plans  
 PTCUL's Transmission Line Length by Voltage (ct. km)  
 PTCUL's Number of Substations by Voltage  
 PTCUL's Substation Capacity by Voltage (MVA)  
 PTCUL's Performance Indicators  
 PTCUL's Number of Transformers by Voltage  
 PTCUL's Capacitor Base by Voltage (MVA)  
 PTCUL's Financial Performance (Rs million)  
 PTCUL's Future Plans  
 MePTCL's Transmission Line Length by Voltage (ct. km)  
 MePTCL's Number of Substations by Voltage  
 MePTCL's Substation Capacity by Voltage (MVA)  
 MePTCL's Performance Indicators  
 MePTCL's Financial Performance (Rs million)  
 MePTCL's Future Plans  
 DTL's Transmission Line Length by Voltage (ct. km)  
 DTL's Number of Substations by Voltage  
 DTL's Substation Capacity by Voltage (MVA)  
 DTL's Performance Indicators  
 DTL's Number of Transformers by Voltage  
 DTL's Capacitor Base by Voltage (MVA)  
 DTL's Financial Performance (Rs million)  
 DTL's Future Plans  
 TSECL's Transmission Line Length by Voltage (ct. km)  
 TSECL's Number of Substations by Voltage  
 TSECL's Substation Capacity by Voltage (MVA)  
 TSECL's Performance Indicators  
 TSECL's Financial Performance (Rs million)  
 TSECL's Future Plans  
 ATL's Under-implementation TBCB Projects  
 ATL's Acquired Projects  
 ATL's Other Transmission Line Projects  
 Financial Performance of ATL (Rs billion)  
 ATL's Year-wise Expected Transmission Line Length Addition (ct km)  
 ATL's Year-wise Expected Transformer Capacity Addition (MVA)  
 Key Transmission Projects of Rlnfra  
 Rlnfra's Status of TBCB Projects  
 Project Portfolio of Sterlite Power  
 Status of Sterlite's Transmission Projects (As of January 2018)  
 Sterlite's Under Construction Transmission Lines  
 Sterlite's Under Construction Transformer Capacity  
 Sterlite's Financial Performance (Rs billion)  
 Key Transmission Projects of Essel Infraprojects  
 EIL's Under Construction Transmission Lines  
 EIL's Under Construction Transformer Capacity  
 Key Transmission Projects of Kalpataru Power Transmission  
 KPTL's Under Construction Transmission Line  
 KPTL's Under Construction Transformer Capacity  
 KPTL's Financial Performance (Rs billion)  
 Instalaciones Inabensa's Key Projects  
 Essar Power Transmission Company Limited's Key Projects Under Construction  
 L&T Infrastructure Development Projects Limited's Key Projects  
 Techno Electric & Engineering Company Limited's Key Projects  
 JSW Energy's Details of Projects  
 RattanIndia Power's Details of Projects  
 EMCO India's Details of Projects  
 Isolux Corsan Concesiones's Details of Projects  
 Cobra Instalaciones and MEIL's Details of Projects  
 Consortium of Patel Engineering, Simplex infra and BS Limited

### List of Figures

Growth in Transmission Line Length (By Ownership)  
 Growth in Transmission Line Length (By Voltage)  
 Growth in Transformer Capacity (By ownership)  
 Growth in Number of Substations by Powergrid  
 Growth in Number of Substations by STUS  
 Growth in Inter-regional Transmission Capacity  
 Growth in Total Transfer Capability  
 Growth in Transmission against Generation Capacity  
 Trend in Powergrid's System Availability  
 Trend in Powergrid's System Reliability  
 Improvement in Transmission Congestion Management  
 Trend in Powergrid's Capex  
 Trend in STUS' Capex  
 Expected Growth in Transmission Sector  
 Year-wise rail electrification target (route km)  
 Voltage-wise Break-up of Under-development Transmission Lines (ct km)  
 Completion Year-wise Break-up of Under-development Transmission Lines  
 Implementation Progress of Under-development Transmission Lines  
 Voltage-wise Break-up of Under-development Substation Capacity (MVA)  
 Completion Year-wise Break-up of Under-development Substation Capacity  
 Implementation Progress of Under-development Substation Capacity  
 Under-development Interstate Line Length - By Voltage  
 Implementation Progress of Under-development Interstate Lines  
 Completion Year-wise Break-up of Under-development Interstate Lines  
 Under-development Interstate Substations - By Voltage  
 Implementation Progress of Under-development Interstate Substations  
 Completion Year-wise Break-up of Under-development Interstate Substations  
 Under-development Intra-state Line Length - By Voltage  
 Implementation Progress of Under-development Intra-state Lines  
 Break-up of Under-development Intra-state Lines by Expected Year of Completion  
 Under-development Intra-state Substations - By Voltage  
 Implementation Progress of Under-development Intra-state Substation Capacity  
 Break-up of Under-development Intra-state Substation Capacity by Expected Completion  
 Voltage-wise Break-up of State Utilities' Line Length for 2016-17 (ct km)  
 Voltage-wise Break-up of State Utilities' Transformer Capacity for 2016-17 (MVA)  
 Voltage-wise Break-up of State Utilities' Substations for 2016-17 (No.)  
 Trend in the Share of O&M Cost in Total Expenditure of Key STUs ( 2012-13 to 2016-17)  
 Projected Growth in Transmission Line Length: 2017-18 to 2022-23  
 Projected Growth in Substation Capacity: 2017-18 to 2022-23  
 Growth in Inter-regional Transmission Capacity (by 2021-22)  
 Break-up of Tower Requirement (in numbers) by Voltage  
 Break-up of Conductor Requirement (in tonnage) by Voltage  
 Break-up of Power Transformer Requirement (in tonnage) by Voltage  
 Region-wise Renewable Energy Capacity Growth

I would like to purchase the “Power Transmission in India 2018” report:

Format (PDF)	Price
Site Licence (Single Location)	Rs 75,000
GST @ 18%	Rs 13,500
Total	<input type="checkbox"/> Rs 88,500
<hr/>	
Enterprise Licence (Multiple Locations)	Rs 112,500
GST @ 18%	Rs 20,250
Total	<input type="checkbox"/> Rs 132,750

I am enclosing a cheque/demand draft for Rs \_\_\_\_\_, vide cheque/demand draft no. \_\_\_\_\_ drawn on \_\_\_\_\_ dated \_\_\_\_\_ in favour of “India Infrastructure Publishing Pvt. Ltd.”

Signature

.....

Name (Block Letters) \_\_\_\_\_

Designation \_\_\_\_\_

Company \_\_\_\_\_

Company GST No. \_\_\_\_\_

Mailing Address \_\_\_\_\_

\_\_\_\_\_

Telephone \_\_\_\_\_ Mobile \_\_\_\_\_

E-mail \_\_\_\_\_

**Wire transfer details:**

**Beneficiary** : India Infrastructure Publishing Pvt. Ltd.  
**Bank Name** : The Hongkong and Shanghai Banking Corporation Ltd  
**Bank Address** : R-47, Greater Kailash-1, New Delhi - 110048  
**Account No.** : 094179587002  
**Swift Code** : HSBCINBB  
**IFSC Code** : HSBC0110006  
**GSTIN** : 07AAACI5880R1ZV

**Contact details:**

**Raktima Majumdar**  
 Senior Manager-Information Products  
 India Infrastructure Publishing Pvt. Ltd.  
 B-17, Qutab Institutional Area. New Delhi - 110 016, India  
 Tel: +91 11 45793069, 41034600, 41034601  
 Mobile: +91 8826127521 Fax: +91 11 2653 1196  
 majumdar.raktima@indiainfrastructure.com