

Powering Telecom

PowerGrid Teleservices Limited
(a 100% wholly owned subsidiary of POWERGRID)



Power Grid Corporation of India Ltd. (POWERGRID)

- A Maharatna Public Sector Enterprise of Govt. of India
- Incorporated in 1989 for transmission of power across the country
- India's largest Electric Power Transmission utility & operates upto 1200 kV AC & 800 kV HVDC
- A listed company in India with majority shares owned by Government of India and rest by the public/institutions
- AAA Credit ratings in domestic domain
- Fastest Growing Electric Utility in Asia

Reach across all Telecom Circles of India including remote areas of J&K, Leh Ladakh and North Eastern States

PowerGrid Teleservices Limited - PowerTel

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Only Telecom Service Provider in the country having a PAN India overhead optic fiber network on Extra High Voltage Transmission Lines

Diversification
into Telecom
Business by
POWERGRID
2001

MPLS
Network
Deployment
2014

Telecom
100G
Deployment
2015-2016

Telecom
Tower
Infrastructure
2019

Telecom
nx100 Gbps
Deployment
2020-21

Separate
Internet
Backbone
2020-21

Telecom
nx200Gbps
Deployment
2021-22

DDoS/
DNS
2021-22

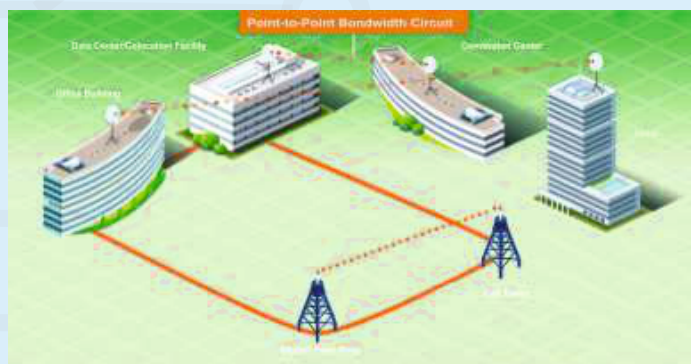
Telecom
Business
transferred to
PowerTel
2023-24

Journey of Telecom in POWERGRID

Telecom Services

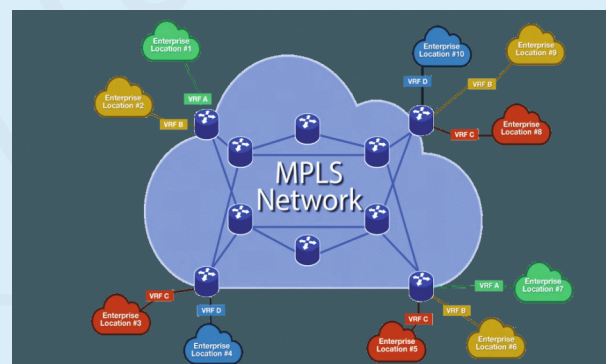
Lease Lines (Point to Point Lease Line)

- SDH/MPLS-TP/DWDM
- Port Capacity up to 100 Gbps
- Scalable from present capacity of Gigabit to Terabit
- Backbone Network Reliability > 99.95%
- Multiple self resilient rings for complete redundancy in backbone as well as intra city access networks



MPLS/VPN

- Three tier architecture with Core, Edge and Access layers
- Dual home connectivity to avoid Single point of failure in Backbone
- Network is designed to cater to real time applications
- Layer-2 & Layer-3 VPN technologies to serve all type of connectivity requirements and different Class of Service
- Network is scalable to 500 Gbps in core
- Physically separate Network for VPN and Internet Services



Data Services

- Internet (1:1) symmetric
- IP Transit
- Layer-2 P2P for data services
- SD-WAN/DDoS/DNS



Infrastructure Services

- Dark Fiber on UGOFC
- Tower-Space for BTS & Fiber connectivity with uninterrupted Green Renewable Power

Other Upcoming Services

- Data Center Services
 - ✓ Colocation Services
 - ✓ Cloud Services
- ILD connectivity at Nepal, Bhutan, Myanmar & Bangladesh

ICT Services

- End to end Telecom & IT Solutions
- Wi-Fi
- Consultancy
- ICT for Smart Cities
- Security Services etc.

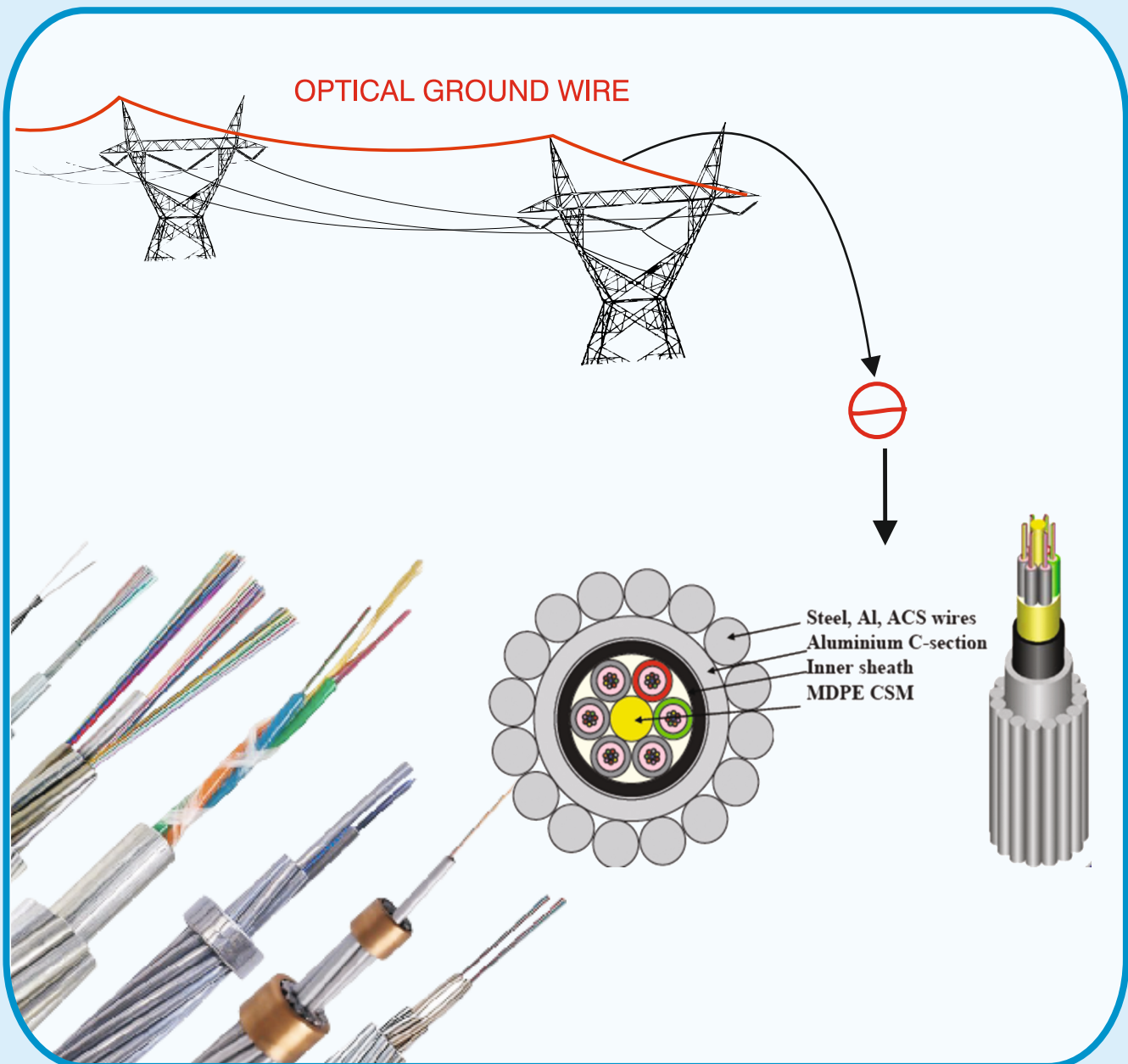
Licenses & Registration

Unified License with authorizations for:

National Long Distance Operator (NLD)
International Long Distance Operator (ILD)
Internet Service Provider 'A' (ISP)

Infrastructure Provider – I (IP-I)
Registration

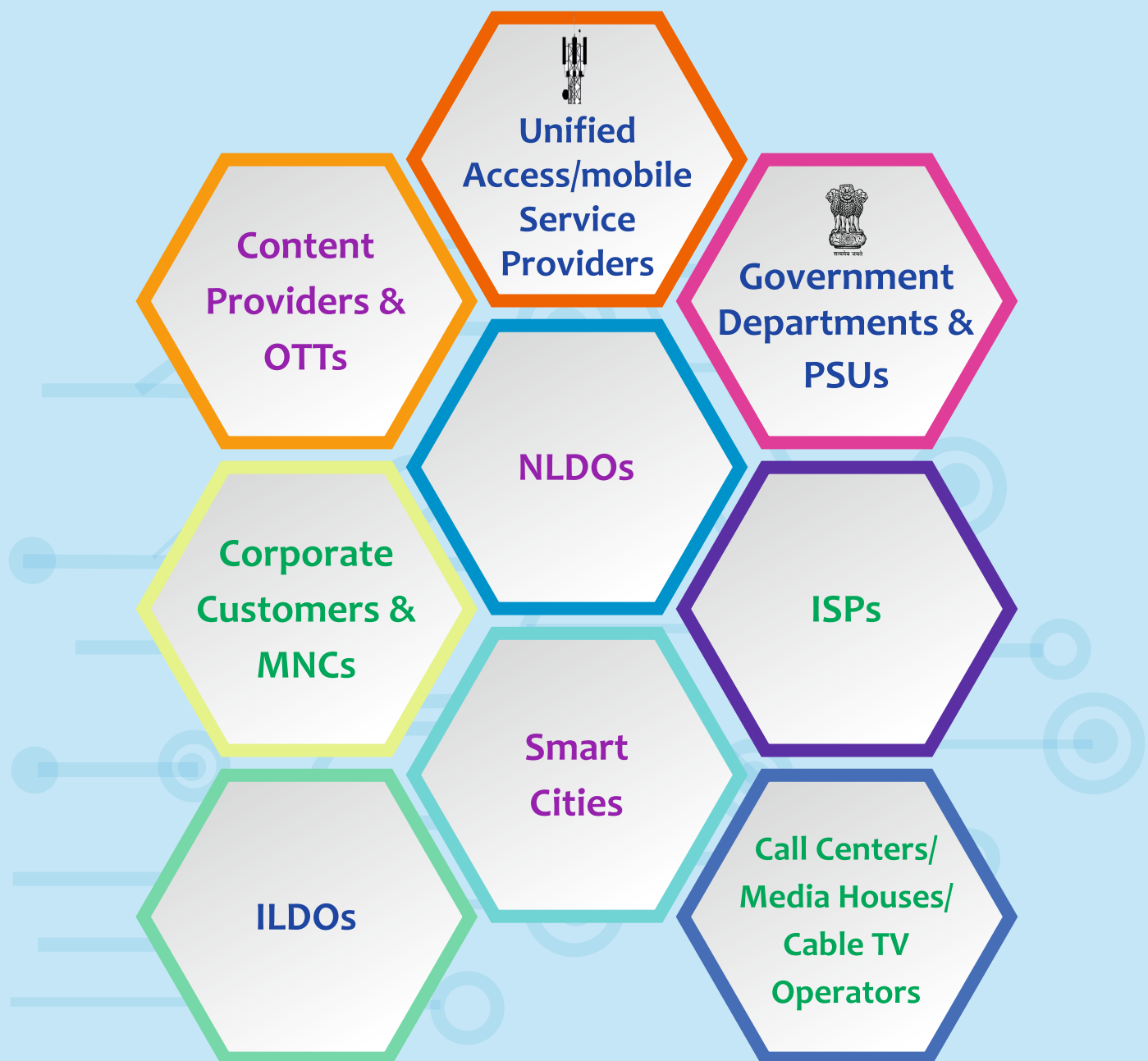
High Availability Network using OPGW



Free from cuts, rodent menace and vandalism

Expand your reach with us

Highly Satisfied Customers



- One of the implementing agencies for major Telecom Projects of Govt. of India viz. National Knowledge Network (NKN) envisaging gigantic 3 layer high speed (10 Gbps) Telecom Network connecting major Knowledge centers such as IITs, IISc, NITs, DHQ etc.
- One of the implementing agencies for Bharat Net

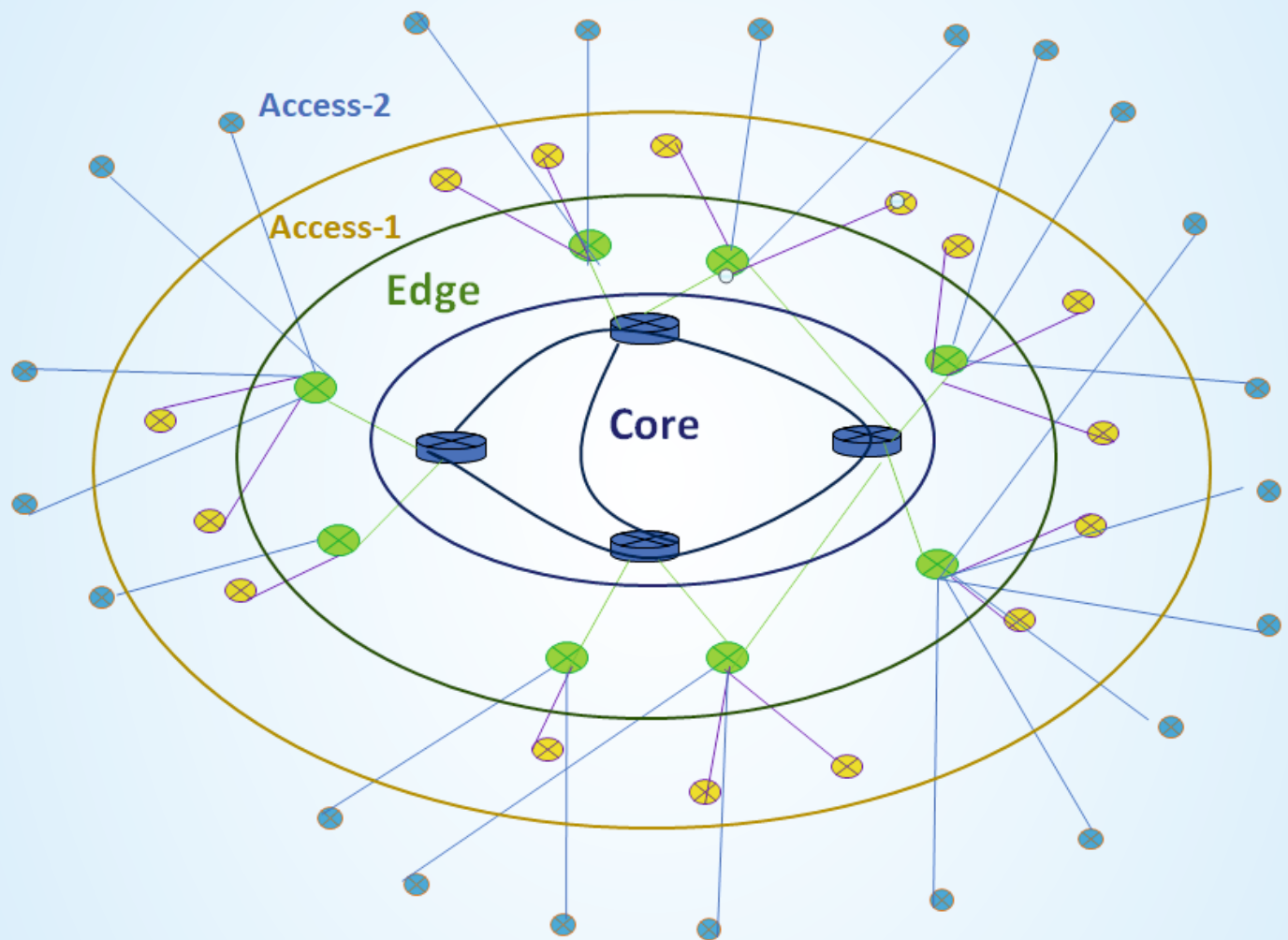
The Network of Reliability & Trust

PowerTel Footprint



Power & Digital Highways

PowerTel MPLS Cloud

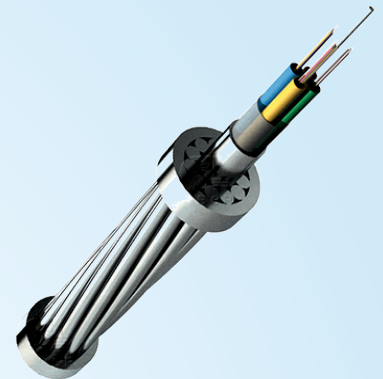


One-Stop Solution:

Tower for Power and Communication



GSM Antenna



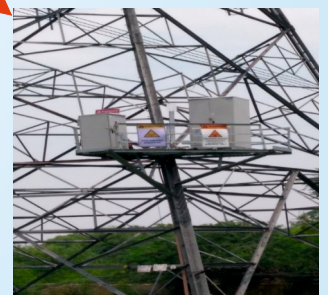
Fibre (OPGW)



Actual Site Pictures



Power supply from Tower
through Transformer



Telecom Equipment Rack

Solution successfully tested independently for Mobile
Communication and FM Transmission by major operators

International Connectivity



Beyond Borders, Beyond Boundaries

Data Centre

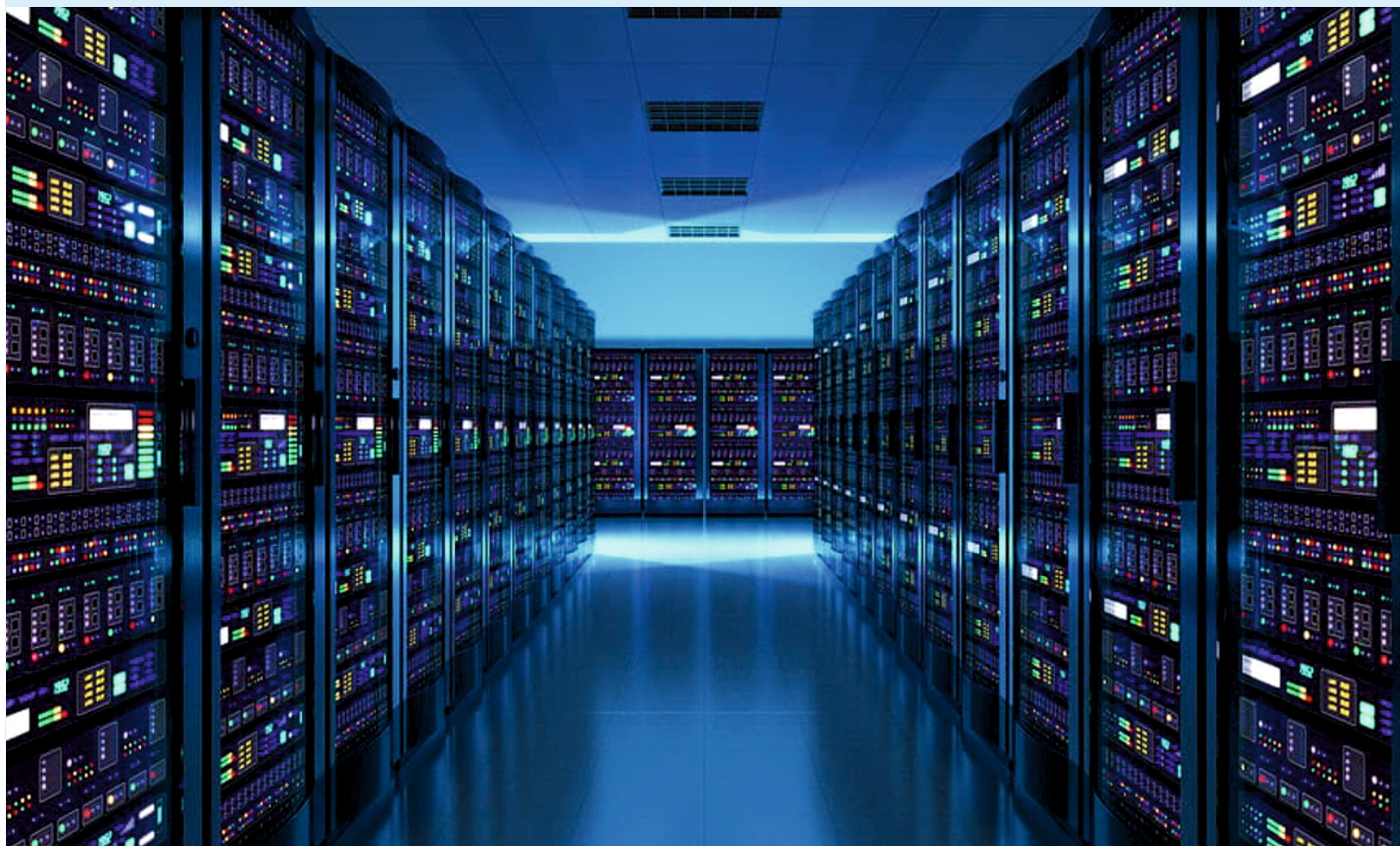
Existing 100 Racks
Data Centre for in-house use

Building 1000 Racks Data
Centre in Northern Region (NCR)

Building 500 Racks DR Data Centre
in Southern Region

Advantages



- Well established Reliable Telecom Network with OPGW Backbone
- Pool of qualified manpower



Contact Details



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Stay Connected!