



VIVAAN TELECOM SOLUTIONS

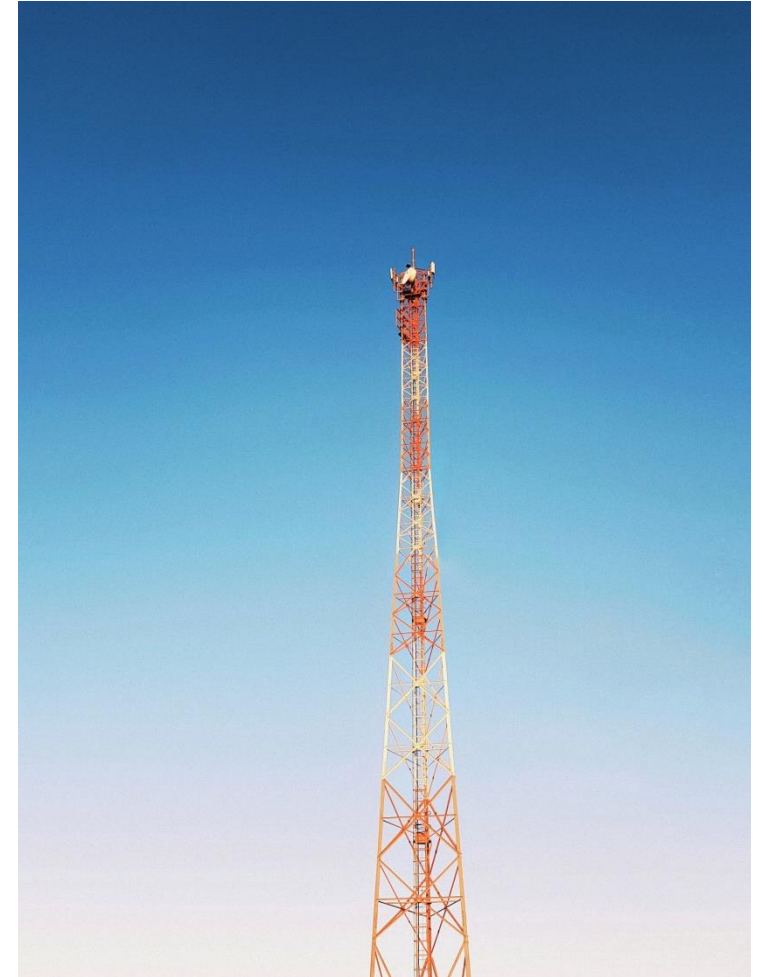
A Perfect Partner In All Your Telecom Tower Construction Need

About Us



We deliver better quality, a superior working experience, and greater lifetime value from our products and services, which enables our partners to think bigger, be bolder, and accomplish more than they ever have.

We operate multiple, highly customized data networks specifically designed and configured for the transmission of transaction-related, timesensitive data. We support a variety of widely accepted communications protocols, designed to be scalable and accessible by multiple methods, from one edge of the network to the other. Vivaan Telecom is providing a wide range of Telecom services in terms of end to end turnkey projects and it specializes in resource provisioning. Vivaan Telecom boasts the most flexible approach to wireless plans on the market. Core competencies include Survey, Installation, Drive Test and Maintenance.





01

Company Vision

To provide secure, reliable affordable and high quality converged telecommunication services anytime, anywhere for an accelerated inclusive socio-economic development.

02

Company Mission

Our mission is to create solutions for our customers. Using our Core Capabilities, we anticipate the customer's needs, react to the challenges that come from a fast evolving industry to deliver for the customer. We ensure that our customer's needs are met by providing superior supply chain knowledge. Thus adding value to our end customers.

03

A Reliable Connection

We have established a leading global network operating platform with deep visibility into the network, as well as management tools that ensure the highest uptime, extreme security and provision for business continuity, through adoption of the best practices in our industry

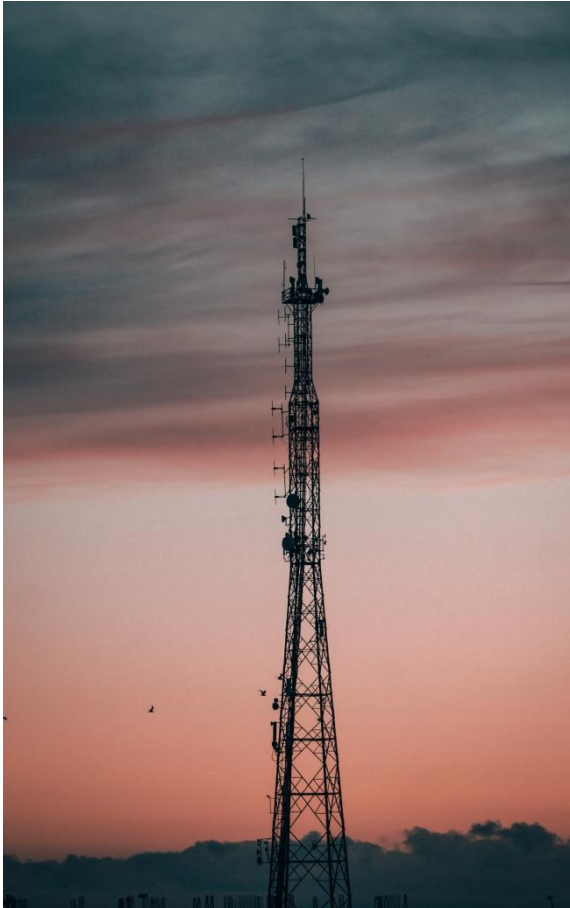
04

Safety Culture

We are certified Drug-Free and SHARP compliant, with a deep cultural commitment to safety and professionalism in the workplace.



Quality Policy And Solution



QUALITY POLICY

We have developed and implemented an integrated Quality Management System (QMS) to demonstrate its ability to consistently provide logistics solutions that meet customer requirements and to address customer satisfaction through the effective application of the system, including continual improvement, risk analysis, and prevention of nonconformity.

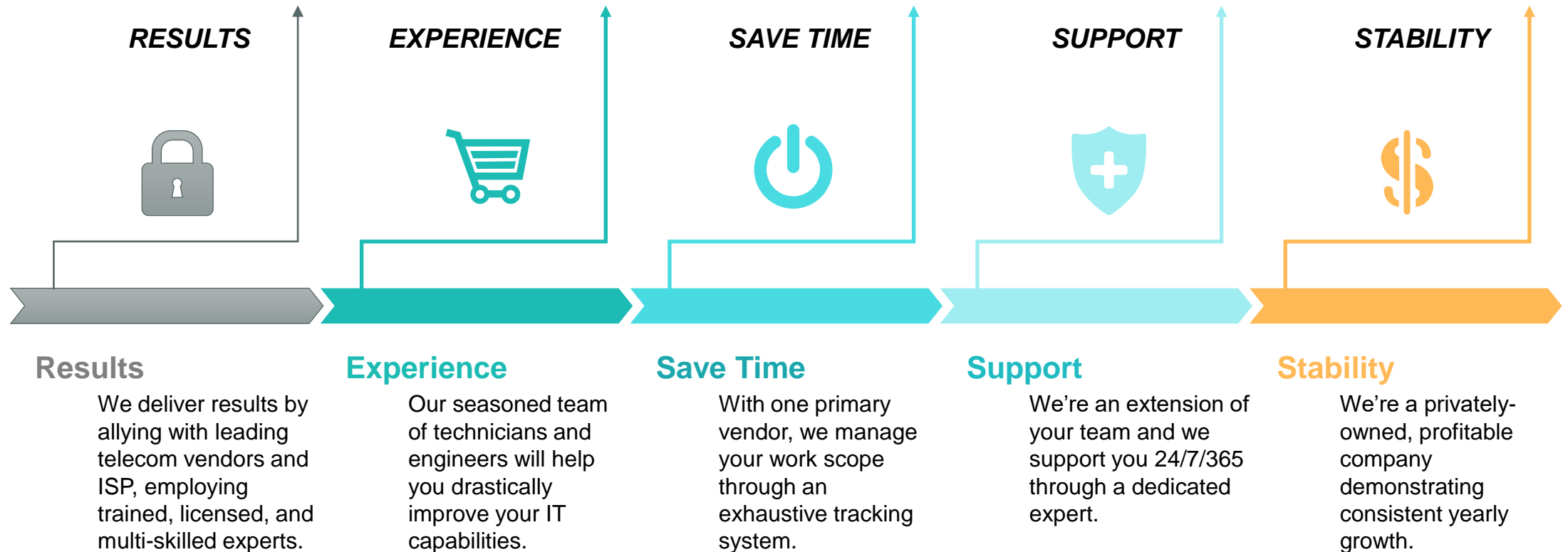
SOLUTIONS

We grew out of the need to create solutions to the problems impacting our clients in the fast paced, ever changing telecommunications industry. We provide our services worldwide to Tele communications industry for network, wireless and wireline equipment and related services. Since inception, we have successfully implemented customized solutions to meet customer's needs.





Key To Success



What We Do?

FEASIBILITY STUDY



SITE SURVEY



**NETWORK DESIGN
AND ENGINEERING**



**SUPPLY OF
EQUIPMENT**



**INSTALLATION AND
COMMISSIONING**



**MAINTENANCE AND
SUPPORT**



What We Do?



VIVAAN
TELECOM SOLUTIONS



STRUCTURAL STABILITY ANALYSIS

We provide structural stability analysis for telecommunication towers. We collect the data of existing building during visual inspection & observation for sites.

LAYOUT PLANNING AND SOIL TESTING

Our qualified team visits the proposed site and acquire the data regarding existing plot location, approached to site, plot levels, measurement of plot, key location of plot, availability of electricity, verify the site distance from state highway, national highway, railway tracks etc.

STRUCTURAL STRENGTHENING

Our technical team visit the telecom sites and acquired the data regarding existing load of antennas on tower, poles, mast, monopole etc., collect the foundation size, existing condition of tower's beam & pedestal etc., and analysis the structure for existing loading condition considering wind pressure at particular site location.

FOUNDATION DESIGN

We provide foundation design for telecommunications towers and equipments like shelter, D.G. set, O.D etc. for GBT & RTT sites, With help of soil testing report and tower foundation forces for GBT sites our technical team design the tower foundation and provide optimum design.

Our Services



Survey

Choose from a range of fast, reliable Internet speeds to fit your needs



- ✓ RF Survey
- ✓ LOS Survey
- ✓ RFI Survey
- ✓ EMF Survey

- ✓ ATP-11A (for BTS INSTALLATION)
- ✓ ATP-11B
- ✓ AT FOR MICROWAVES
- ✓ DRIVE TEST For 2G,3G,& 4G/LTE SCFT/DT SURVEY

Installation Service

Choose from a range of fast, reliable Internet speeds to fit your needs



- ✓ 2G Installation / Swapping
- ✓ 3G Installation / Swapping
- ✓ 4G Installation
- ✓ 5G Installation

- ✓ Microwave Installation
- ✓ ODSC / UBR

Tower Installation

Choose from a range of fast, reliable Internet speeds to fit your needs



- ✓ Electrical Wiring
- ✓ Electrical Meter Installation
- ✓ Electrical Control Panel
- ✓ Electrical Substation Installation

- ✓ Electrical Cable Jointing
- ✓ Interior Electrical
- ✓ Electrical Instrumentation
- ✓ Electrical Breakdown Works

Service offerings



Network design & Planning.

- RF Planning & Design.
- Transmission Planning
 - RF Optimizations.
- Benchmarking & Auditing.
 - IBS

Network Operation & Management.

- Network monitoring.
- Field Maintenances.
 - Technical support
 - Logistics & Vender management.

Infrastructure

- Construction and Erection of Telecom Towers

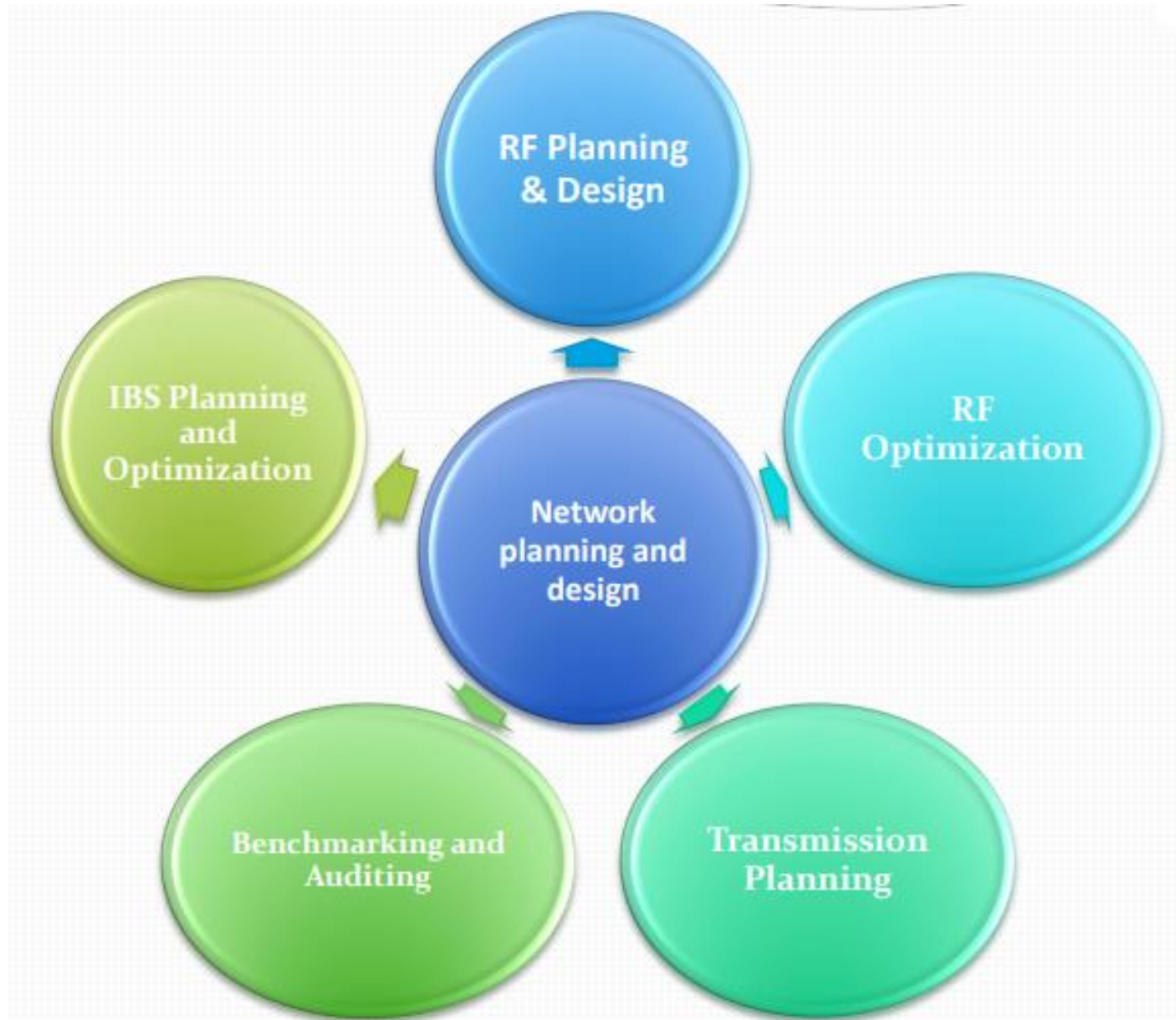
Network Deployment.

- TSSR
- Site Implementation.
 - ATP
 - As built site documentation
- Managed services

Professional Services.

- Network design Services.
- Transmission Planning
 - Backend support.
 - NOC Services .
- Project Management Services

Network Planning, Design and Optimization



Network Planning, Design and Optimization

RNO-NP DT Services

- ❖ SFT Of New Sites
- ❖ Cluster Driver
- ❖ Cluster Optimizations
- ❖ Bench Marking
- ❖ Swap Services & Network Scanning
- ❖ U900 Implementation
- ❖ Frequency Reframing





WE CAN HELP YOU CONNECT

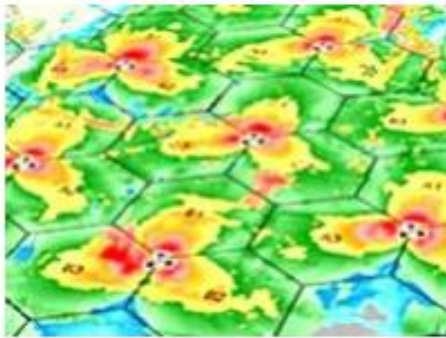
Services & Products.

01. Turnkey Managed ITC Services
02. O3B Internet Service
03. VSat Services
04. Rig Movement Connectivity
05. Microwave Lines
06. Layer2 Connectivity
07. Fiber Optics Connectivity
08. Communication Towers Provision and Installaton
09. Technical Support & Technology Consulting
10. Internet Security, VPN, Firewall & Network Management (Wifi)
11. Dedicated Data Centers
12. Virtual Office Solutions with E-mail, VoIP, Printing servers
13. IVR Tracking Services
14. Website Design, E-mail Hosting & Email Archiving
15. Dedicated Servers
16. Software Integrations & Custom Web Development
17. Security & CCTV Systems
18. IPTV Camp Services
19. ACS system
20. Network Infra Structure

Telecom Implementation, Optimization and Integration



2G/3G/4G RF Services



- RF planning and design
- RF Drive Testing both Pre-Launch & Post-Launch
- RF Optimization
- RF Benchmarking
- RF Planning & Design Consultancy Services

Transmission Services



- Design Services
- Nominal Planning
- LOS Survey
- Path Calculation
- Frequency Planning
- Interference Analysis
- NMS Design & Implementation

Field Services



- Pre-Installation Survey
- Installation & Commissioning
- Link Performance Testing & Integration
- As-built reports and

Core Network Services



- System architecture design
- IP network and IPSec design
- NGN platform Commissioning & integration
- MGW & MSC server commissioning & integration
- Functional, resilience and connectivity testing
- Migration to R4 Core configuration
- Routing & Switching
- WAN services & MPLS Networks, VPNs
- Network security & Data Centres

Backhaul



- Design Assistance
- Assistance in Preparation of BOM
- Implementation
- Integrating
- Testing

Network Audit Service



Network Audit

Comprehensive , Quick and Accurate Audits



VTS performs end-to-end network audit to evaluate and optimize the performance of network. The audit process addresses technical evaluation as well as identification of KPI's, BoQ's, Quality of work for onsite installed equipment i.e. Radio, Transmission, BSS and Civil works.

Network Audit includes:

- BSS Audit
- Transmission Audit
- RF Audit



BSS Audit



- BOQ Verification
- Quality of Installation
BOQ's will be required to verify all the equipment installed;
- BTS Antenna and Feeder cable Installation
- BTS Visual Installation check
- BTS Cabinet Checks are Performed.
- Hardware and software alarms are checked
- Physical capacity of the site.
- The antenna height along with type, tilt etc
- RF coax cable connections, Cable return loss
Sector orientations
- Testing of grounding field strength, percent service availability, base-to-mobile and mobile-to-base signal levels

Transmission Audit



Audit includes inspection of Quality of Installation along with physical condition of tower and site.

- Site coordinates
- Site ground level above mean sea level
- Tower height, antenna heights on tower
- Pointing azimuth of each antenna
- Transmission line types and lengths
- Transmitter and receiver nomenclatures
- Number of standby transmitters and receivers
- Tuned frequencies of all operating equipment
- Transmitter power outputs and received input levels

RF Audit



- Perform Drive Test and analyze long files with proper solution
- Coverage of service area:
Urban, suburban, rural and inside building Intra and intercell handover
- Call success rate
- Rx Qual / Rx Lev.
- Checking antenna orientation as per design, end to end connection of feeder cable
- Verifying that the RF implementation matches the RF design sheet
- Readjusting down tilts if incorrect
- Analysis of Block calls, Dropped calls, Handover failure.
- Coverage problem analysis
- Coverage Hole
- Overshooting cells



Telecom Managed Services



Network O&M



- Fault Management & Trouble Shooting Management
- Root Cause Analysis Support & Reporting
- Upgrade/Capacity Management
- Configuration Management
- KPI Measurement
- Backup management & Recovery support
- Database Management
- Remote Infrastructure Alarm Monitoring and resolution
- Onsite and remote Infrastructure monitoring
- Field Scheduling & Dispatch Management

Network Field Maintenance

PM & CM

Preventive & Corrective Maintenance of

- Core Network Elements (MSC,BSC,BTS) Transmission Systems
- Access Networks like WiMax, FTTH etc
- Fiber Networks
- Electrical Equipments& other Facilities

Support Services

Technical Support and Process Management:

- Technical Help Desk
- Acceptance Testing
- Type Approval Testing
- Process Management activities

Logistics & Vendor Management:

- Spares Management
- Warehouse Management
- Repair & Return coordination
- 3rd party Vendor Management



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Thank you