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ISO 14001 Standard

HIMACHAL FUTURISTIC COMMUNICATIONS LTD.
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HFCL/SEC/19-20

August 05, 2019

The BSE Ltd. 1 st Floor, New Trading Wing, Rotunda Building, Phiroze Jeejeebhoy Towers, Dalal Street, Fort Mumbai - 400001 corp.relations@bseindia.com Security Code No.: 500183	The National Stock Exchange of India Ltd. Exchange Plaza, 5 th Floor, C - 1, Block G, Bandra - Kurla Complex, Bandra (E) Mumbai - 400051 cmlist@nse.co.in Security Code No.: HFCL
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RE: Regulation 30 of the Securities and Exchange Board of India (Listing Obligations and Disclosure Requirements) Regulations, 2015.

Subject: Latest Investors' Presentation.

Dear Sir(s)/ Madam,

In terms of Regulation 30 read with Para A of Part A of Schedule III to the Securities and Exchange Board of India (Listing Obligations and Disclosure Requirements) Regulations, 2015, we hereby submit the latest **Investors' Presentation** on the business and operations of the Company.

This aforesaid Presentation is also available on the Company's website.

You are requested to take the same on records and disseminate on your respective websites.

Thanking you.

Yours faithfully,

For **Himachal Futuristic Communications Ltd.**

(Manoj Baid)
Vice-President (Corporate) &
Company Secretary



Encl: Investors' Presentation.



HIMACHAL FUTURISTIC COMMUNICATIONS LTD.

PRESENTATION
AUGUST, 2019



COMPANY OVERVIEW



Company Overview



- Himachal Futuristic Communications Ltd. (HFCL) is an established leader offering fully integrated communication network solutions.
- Manufactures optical fiber cables (OFC) and high end transmission and access equipment.
- Specialized in providing turnkey solution to telecom service providers, railways, defence, smart city & surveillance projects.

State-of-the-art Manufacturing Facilities

- OFC manufacturing at Verna, Goa & through subsidiary at Chennai, Tamil Nadu
- Telecom Equipment manufacturing at Solan, Himachal Pradesh
- FRP Rod manufacturing at Hosur, Tamil Nadu through subsidiary at Chennai, Tamil Nadu
- A greenfield Optical Fiber manufacturing facility is being set up with a capacity of 6.4m fkm at Hyderabad

Turnkey Solutions / System Integration

Project planning, network design, equipment supply, installation & commissioning, system integration, operation and maintenance services of various networks including Wireless Transmission & Access, Optical Transport & Access, Satellite / CDMA / GSM, WiFi, Surveillance etc.

Board Of Directors



Mahendra Pratap Shukla - (Non-Executive Chairman)

- An Electrical Engineer with vast experience in Telecom Industry
- Ex-Chairman & MD of TCIL & MTNL
- Awarded *Telecom Man of the Year* award in 1992 for his commendable contribution to the Telecom Industry



Ranjeet Anand Kumar Soni (Non-Executive Director -(Nominee – IDBI)

- Masters In Mathematics & JAIIB Certification From Indian Institute of Banking & Finance
- Over 18 Years of Experience in Corporate & MSME Segments With Banking Industry



Mahendra Nahata (Promoter & Managing Director)

- The pioneer of new age telecom sector in India
- Has been on the Board of Governors of IIT Mumbai and Madras and IIIT, Allahabad
- Ex- Member of CSIR, Govt. of India
- Served as President of TEMA
- Served as Co-chairman of Telecom Committee of FICCI
- Awarded with Telecom Man of the Millennium award by Voice & Data



Ved Kumar Jain (Independent Director)

- A Fellow Member of ICAI
- Former President of ICAI
- More than four decades of experience on advising Corporates on finance and taxation matters
- Founder Board Member of Indian Institute of Corporate Affairs, Government of India



Arvind Kharabanda (Non-Executive Director)

- A member of ICAI with vast experience across industries like Telecom, Broadcasting, IT, Electronics, Consumer Durable and White Goods
- Expert in Marketing, Manufacturing, Project Appraisal, Finance, Planning and Corporate Strategy



Surendra Singh Sirohi (Independent Director)

- Alumnus – IIT Kanpur and Ex-Officio Secretary to GOI in Ministry of Communication & IT
- Has been Member - Technology in Telecom Commission
- Vast experience in telecom industry particularly in the areas of National Policy, sectorial regulations, planning & development, R&D, telecom service operations etc.
- Instrumental in formulating several regulatory and strategic initiatives for inclusive growth in the telecom sector



Dr. R. M. Kastia (Non-Executive Director)

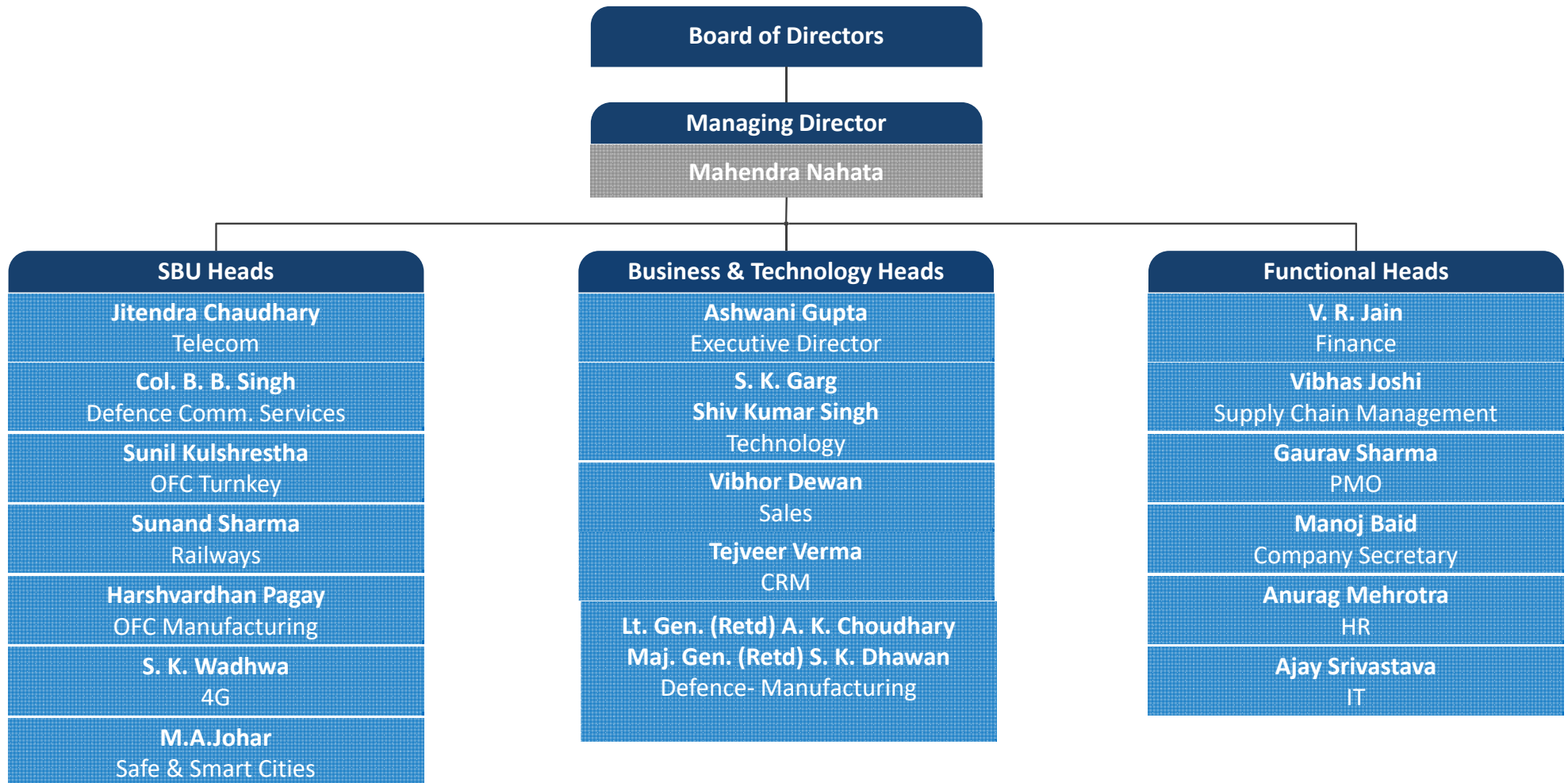
- Holds Doctorate degree in Chemistry. Fellow of British Institute of Management (London)
- Held Senior Executive positions with various national and multi-national companies across Industries



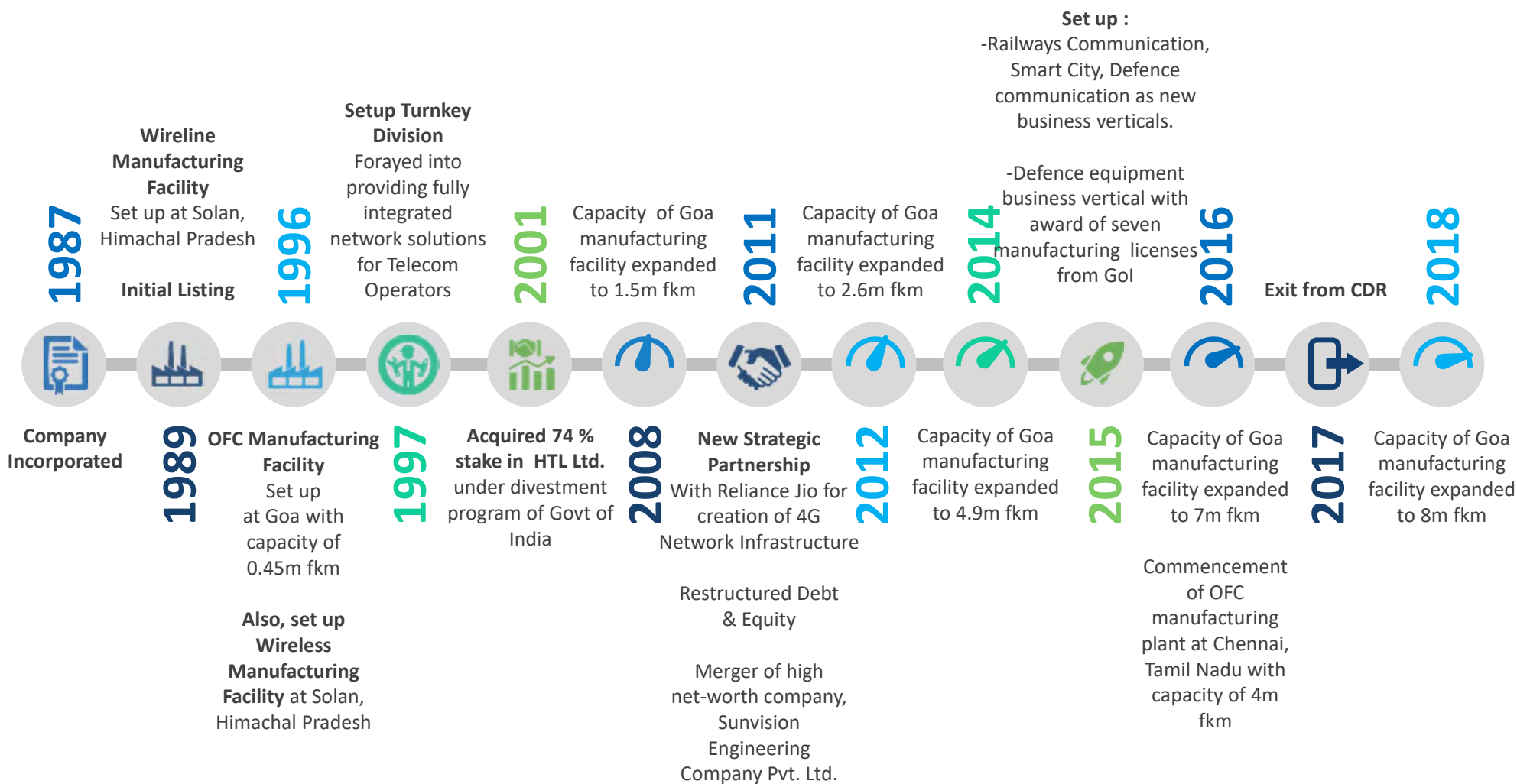
Dr. Tamali Sen Gupta (Independent Woman Director)

- Doctorate in Legal
- Masters in Law from Stanford Law School
- Legal professional with vast experience in international JVs, collaboration and licensing agreements, M&As
- Advised Ministry of Railways on installing Fiber optic link

Leadership Team



Key Milestones



Manufacturing Facilities



OFC Manufacturing

Verna, Goa

Capacity: 8m fkm



Telecom Equipment Manufacturing

Solan, Himachal Pradesh

OFC Manufacturing

Chennai, Tamil Nadu

Capacity: 7m fkm

Planned expansion : 3.5m fkm



FRP Rods, IFGR, ARP Manufacturing

Hosur, Tamil Nadu

Capacity: FRP Thermal - UV 7,66,800 kms /IGFR - 22.50 MT/ARP 1,80,000 kms

Optical Fiber Manufacturing*

Hyderabad, Telangana

Planned Capacity: Optical fiber - 6.4m fkm



* Greenfield facility - work in progress

Research & Development Capabilities



Strategy

- R&D initiatives in house and in partnership with others
- Develop products which can be sold globally and can be bench marked with other leading global manufacturers

Team

- Over 100 people with proven track record, International experience and Indian business know-how
- Qualifications include PhD, M Tech, B tech
- International technology partnerships and Domain specialists



Expertise

- Design & Development including System Engineering and Product design , Hardware & Software development, Mechanical design etc. for WiFi Network products, Radios, RF and Microwave domain for both active and passive devices, Embedded systems, Communication systems, RADAR and surveillance systems

Products

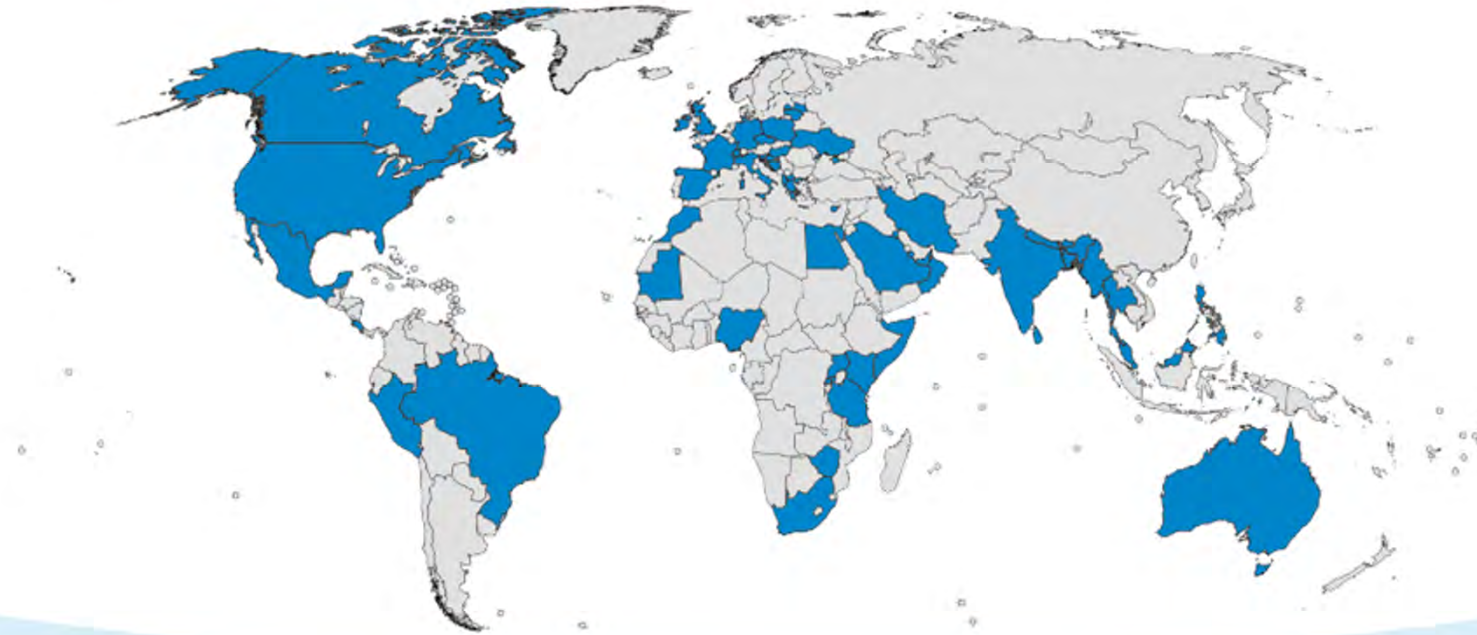
- High Capacity Radio Relay
- Backhaul radios
- Wi-Fi Network Products
- Cloud-based Management Platform
- Antenna Design
- VA, VMS Products
- Electronic Artillery Fuses for ammunition
- Opto-Electronic devices
- Highway Traffic Management System



Key Customers



Customer Presence



EUROPE

- Ireland
- Bosnia and Herzegovina
- Latvia
- Lithuania
- Croatia
- Czech Republic
- Macedonia
- France

- Germany
- Hungary
- Poland
- UK
- Italy
- Slovenia
- Spain
- Switzerland
- Albania
- Greece

AMERICAS

- Brazil
- Canada
- Mexico
- Peru
- Georgia
- Costa Rica
- United States

AUSTRALIA

ASIA

- Bangladesh
- Bhutan
- Burma (Myanmar)
- Malaysia
- Nepal
- Thailand
- Philippines
- Ukraine

- Singapore
- Sri Lanka
- Iran
- Kuwait
- Cyprus
- Mauritania
- Morocco
- Egypt
- Oman
- Qatar

- UAE
- Saudi Arabia
- Somalia

AFRICA

- Kenya
- Nigeria
- South Africa
- Rwanda
- Tanzania

- Uganda
- Zimbabwe



PRODUCTS AND SOLUTIONS PORTFOLIO



Portfolio of Products



OPTICAL FIBER CABLES

- Aerial Cables
- Armoured / Unarmoured Cables
- FTTx Cables
- Duct / Micro Ducts
- ADSS Cables
- Ribbon Cables
- Premises Distribution Cables
- CPRI Cables

CABLE ACCESSORIES

- Patch Cords, Pigtails, Patch Panels, Splitter Modules, FDMS, HFTB

OPTICAL FIBER*

** Manufacturing setup in progress*



TELECOM PRODUCTS

- GSM BSS Equipment
- Microwave Radios
- Telecom Power Solution Equipment

UNDER DEVELOPMENT

- High Capacity Radio Relay
- Backhaul radios
- Wi-Fi Network Products
- Cloud-based Management Platform



SURVEILLANCE PRODUCTS

- Video Management System
- Video Analytics
- Automatic Number Plate Recognition
- Red Light Violation Detection System
- Challan Management System
- Parking Management System

UNDER DEVELOPMENT

- Highway Traffic Management System



DEFENCE PRODUCTS

UNDER FIELD TRIAL

- Unmanned Aerial Vehicles(UAV)

UNDER DEVELOPMENT

- Electronic Artillery Fuses for ammunition
- Opto-Electronic devices

Optical Fiber Cables

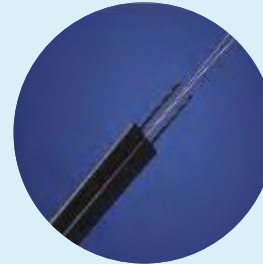


Conventional cables

- Armoured Cable
- Aerial Cables- ADSS and Figure-8
- Ribbon Cables

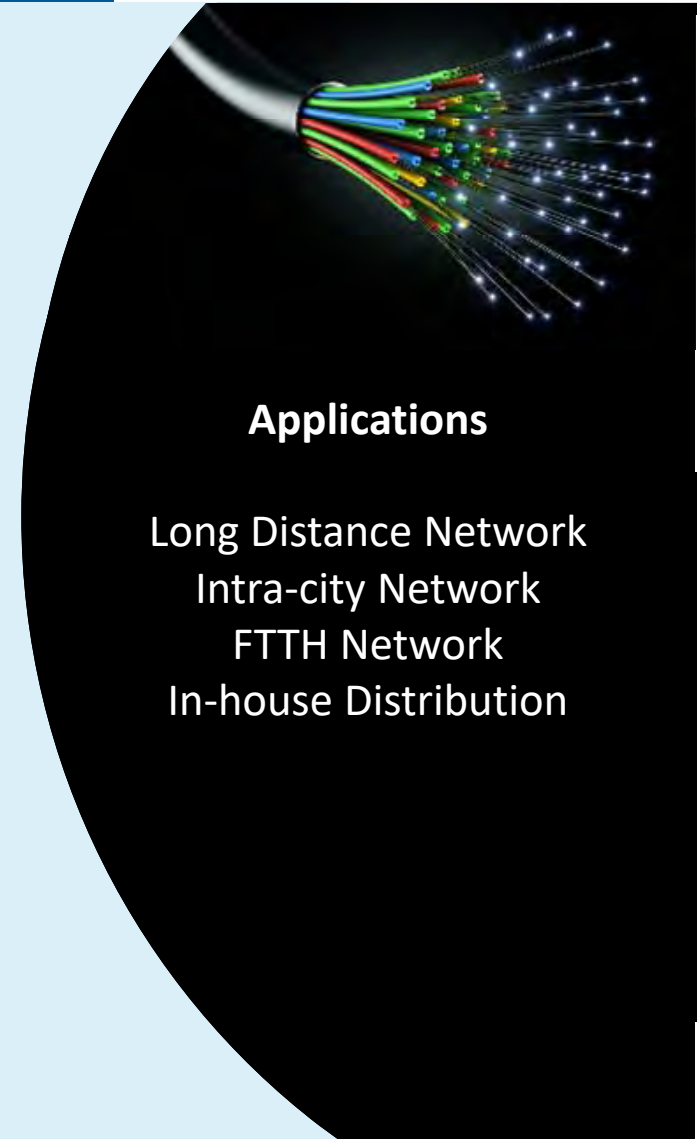
FTTH Cable

- Indoor/Outdoor cables
- Micro-duct / Mini-cables / Air Blown Cables
 - FTTH Cables
- In-Premises Cables



Specialty Cables

- Tactical Cables
- Intrusion-Free Cables
- Wire Armoured Cables
- Fire Survival Cables
- Easy peel cables



Applications

Long Distance Network
Intra-city Network
FTTH Network
In-house Distribution

Telecom Products



Microwave Radio Equipment

Integrated high bandwidth radio unit with centralized network management



GSM BSS Equipment

Small Size GSM Radio Sub System for GSM Coverage in rural area. Cost effective solution for villages still uncovered.



High Capacity radio Relay

HCRR is a Line-of-Sight (LOS) radio link intended for use in a Tactical Network for long haul transmission of data traffic.



Unlicensed Band Radio

Provide high speed point-to-point and point-to-multi-point connectivity solution in unlicensed ISM bands.

Telecom Power Solution Equipment

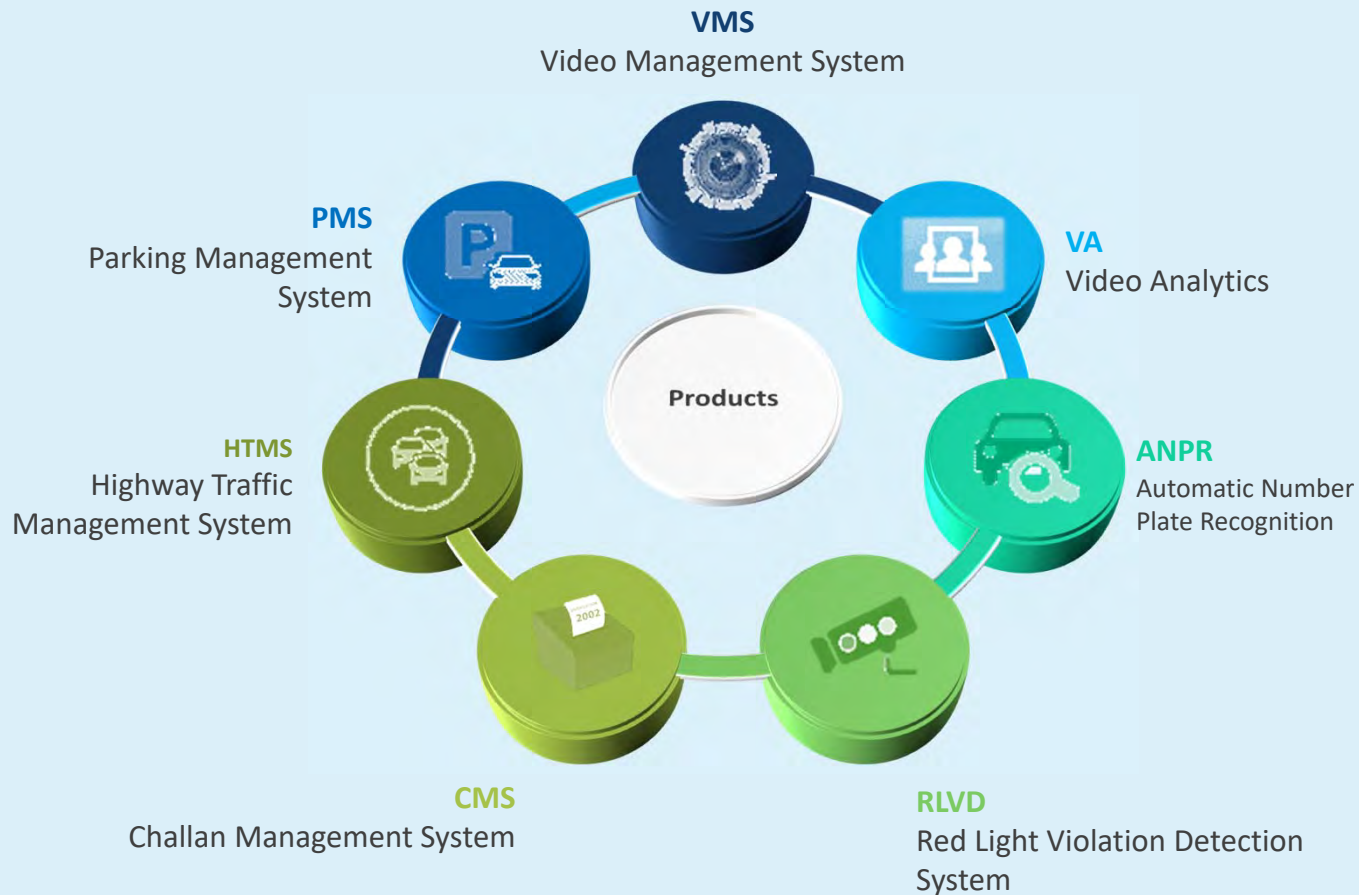
Bridgeless, dynamic and digitally controlled ultra-high efficiency rectifier power equipment



Wi-Fi Access Point

The products are IEEE standard 802.11ac Wave 2 certified access points (APs) for indoor / outdoor Wi-Fi deployments.

Surveillance Products



- Focused on Smart City Solutions, City Surveillance, Traffic Enforcement, Critical Infrastructure Protection, Industrial & Government Projects
- Company believes in developing Innovative Solution which are best in class yet customized and modified to suit geographical needs/demands
- In-house Software Development & R&D

Defence Products



Electro Optical Devices (Night Vision Devices)

HFCL has participated in a few tenders for these devices



Unmanned Aerial Vehicles (UAVs)

Successful in Technical evaluation and field trials are in process



Electronic Fuses for all types of ammunition

HFCL has participated in a bid for supply of 5 Mn fuses over 10 years which is under Technical evaluation.

The nascent steps that HFCL started taking in Defence manufacturing a couple of years ago, under the 'Make in India' initiative, have been growing steadily in stature.

Portfolio of Solutions



TELECOM NETWORK

- OFC Network
- FTTx Network
- Mobile Network
- *Broadband Access & Wi-Fi Network*
- Radio backhaul Network



DEFENCE NETWORK

- OFC Network
- Optical Transport Network
- Fiber Monitoring & Management
- Microwave Network
- Routing & Switching Network
- Border Security Management
- Perimeter Security



RAILWAY COMMUNICATION & SIGNALING NETWORK (Metro Rail & Main Line)

- Network & Equipment Design
- Installation & Commissioning
- Network Integration
- Operations & Maintenance



SMART CITY & SURVEILLANCE NETWORK

- Safe City Solutions
- Intelligent Traffic Management Solutions
- Video Surveillance

Telecom Network Solutions



OFC Network

- OFC Survey & Network Design
- fiber Deployment
- Site and Infrastructure Built-up
- Installation & commissioning
- Operations & Maintenance

FTTx Network

- Planning & Design
- Equipment Supply
- Installation & Commissioning
- Operations & Maintenance



Mobile Network

- Cell Site Infrastructure
- Supply , Installation & Commissioning
- BSS Equipment manufacturing & Supply
- Centralised NMS
- Operations & Management



WiFi : Providing complete eco system for WiFi services

- Design and Implementation of WiFi solutions
- Offering entire range of WiFi AP's, WLC's, Portal (Cloud/Appliance) and Management SW
- Front haul and Backhaul integration and services roll out



Specialized Services

- Network optimization
- Managed Services
- RF network Optimization

Defence Network Solutions



Fiber Network

Rollout of dedicated optical fiber network for armed forces

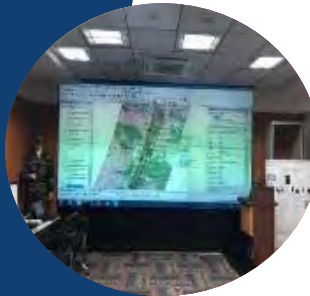
Optical Transport Network

Rollout of exclusive and dedicated Nationwide DWDM based Optical Transmission backbone network for Armed Forces



Fiber Monitoring & Management (GOFNMS)

Implementing a Pan India Optical Fiber Network for providing optical gigabit access network connectivity to defence forces



Microwave Network

Rollout of Hybrid Microwave Broadband Radio Links for pan India defence network



IPMPLS Network (Routing & Switching)

Converged Nationwide IP/MPLS Backbone Network with 219 Access Network Locations and Integrated IMS based Communication Solution on Turnkey Basis for Defence Network



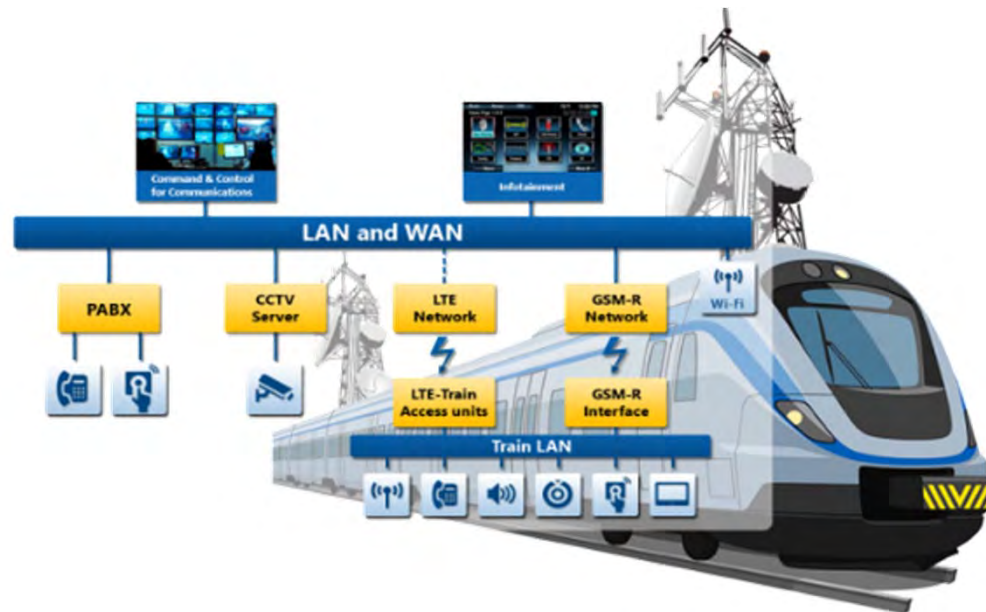
Border Management

An integration of a number of new gadgets and technologies to ensure electronic surveillance of India's international borders

Railway Communication Network Solutions



- In order to leverage its telecom product and EPC capabilities in adjacent space, Company has ventured into railways business
- HFCL offers integrated solutions crafting a combination of its own products and those others from leading manufacturing OEM partners from India and abroad.
- The Company is currently implementing telecom networks for three greenfield domestic railway freight corridor projects received from marquee customers like L&T, Alstom & China Rail
- HFCL has also been awarded two overseas contracts to execute the Telecommunication Systems projects for Mauritius Metro Express Project and Dhaka Metro Mass Rapid Transit System



Network Design



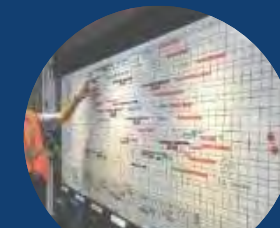
Equipment Design



Installation & Commissioning



Network Integration



Post Deployment Services

Smart City & Surveillance Solutions



HFCL's offerings in the Safe & Smart city domain include key core solutions like Communication / IT / Telecom infrastructure, data centre, disaster recovery and management, security, surveillance, traffic management and citizen / mobile applications.

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Safe City Solutions



- Video Management System
- Red Light Violation Detection
- Number Plate Recognition
- Parking Management
- Vehicle movement detection
- Incident Management
- Unidentified Object detection
- Vehicle Color detection

Intelligent Traffic Management Solutions



- Highway Traffic Management System
- Vehicle Category Detection
- Motion/Intrusion/wrong direction detection
- Variable Message Sign
- Tress-passing detection
- Over-crowding detection
- Vandalism & tamper detection
- Challan Management System

Video Surveillance



- Administrative Workstation
- Detection & Tracking services
- IP Video wall
- Video Management System
- Video Analytics System
- Live Image Analytics
- Fire Detection
- Person/Animal detection
- Loitering, Left baggage detection

Peremetric Security



- Radars
- EO Sensors
- Vibration Sensor
- Proximity Sensor
- Acoustic/Laser Sensor
- Smart Electric Fence
- Counter UAV

Projects executed

Ludhiana Safe City

- 1,450 cameras at 159 Locations with 30 days storage at Police lines Data Centre.
- Applications Portfolio: VMS, VA, ANPR, RLVD, NMS, Antivirus and Backup Software.

Jaipur Dev. Authority Smart City

- 100 Wi-Fi Access Points and 170 Surveillance Cameras in the City Area.
- 2,000 Smart Street Lights with 1600 Smart Poles.

Other Projects

- Noida Expressway
- Gurgaon Safe City
- UIDAI - Aadhar
- Tihar Jail, New Delhi
- IOCL: Panipat & Barauni
- NTPC: Mauda, Rihand,
- Vindhyachal

* Includes offering by its wholly owned subsidiary Polixel Security Systems Pvt. Limited