ISO 9001:2015 Company

ISO 14001:2015

ITI LIMITED

(A Government of India Undertaking)

BharatNet

Partner In Nation Building Since 1948

COMPANY PROFILE

India's first Public Sector Unit-III Limited was Established in 1948 under Ministry of Communication. Ever since, as a pioneering in the field of telecommunications, it contributed for 70% of landline and transmission networks in the country until the evolution of wireless communication. With state-of-the-art manufacturing facilities spread across five locations and a countrywide network of marketing/service outlets, the company offers a complete range of telecom products and total solutions covering the whole spectrum of Switching, Transmission, Access and Subscriber Premises equipment.

MANUFACTURING UNITS
Bengaluru
Products / Services

STM 4 Encryptor	NGN	TESD
Ananda MK II BEU	IP Encryptor	Ruggedised 2 Mbps Secrecy
PCM	FAT	Magneto Telephone

ETC Telephone   5C Telephone

4G RAN

Multi Post EVM

Control Unit   VVPAT   Ballot Unit

ITI offers S3 Electronic Voting Machine (S3-EVM) designed to modernize, conducting fair and full proof election process at the State level. It rules out all possibilities of fraud and manipulation during elections and is simple to operate.

WAYU - MINI PDO

PM-WANI (Prime Minister's Wi-Fi Access Network Interface) compliant with agenda to accelerate the uptake of broadband internet services and elevate wireless internet connectivity along the length and breadth of country.

WAYU - MINI PDO

- Development of entire range of DMR equipment -Hand held radio, Vehicle based Mobile Radio, Base Station, Repeater and GIS in progress.

- Widely used by agencies under MOD, MHA & State Police, Railways, State Metros, Oil rigs, power grids etc.

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Single Outlet Automatic Resuscitator (SOAR)

- Single Outlet Automatic Resuscitator (SOAR)-An Assistive Breathing Device with Transfer of Technology (ToT) DEBEL, DRDO.
- Supports forced breathing and the source of breathing is compressed air/oxygen.
- In-built monitoring of Breaths per Minute (BPM) or Respiration Rate (RR), Minute Volume (MV), Airway Pressure, Demand Breathing and status of Oxygen supply.
- Operates on AC/DC/External battery/Internal
- Battery with charging

ASCON project solutions
Radio modems (Type-A, Type-B)
Defence Products
AN racks hardware
Next generation network products
Wi-Fi Hotspot Modems
IoT products
GSM maintenance services
Aadhaar Authentication services

Field Telephone Model 5c

Field Telephone Set - 5C, is an integrated version of ITI's proven models: Field Telephone Set 5B and Field Auto Telephone 2A. The 5C model works in the following modes: Magneto mode, Auto mode, Radio mode& Line Man mode.

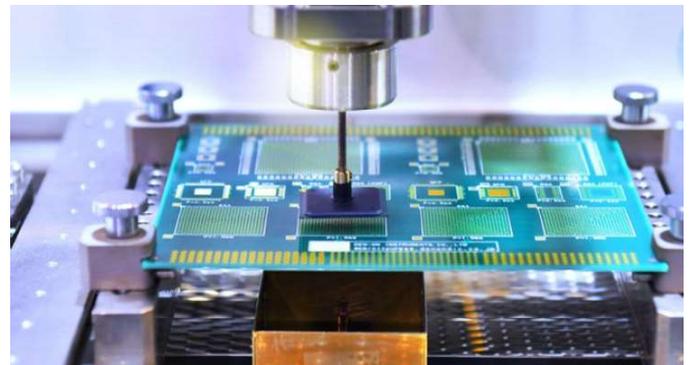## FACILITIES

Electronic Assembly & Testing

- Full fledged through hole assembly using SEHO Dual wave soldering.
- Ability to handle lead and lead-free (RoHS) components.
- Flying Probe Testing (FPT) system for checking of assembled cards.

SMT Assembly Line

Capacity: 1,00,000 CPH with capability of placing fine pitch components like BGAs, Micro BGAs and QFP package devices equipped with AOI and X-Ray inspection systems.

PCB Plant

- Capacity: 10000 Sqm/ Annum
- Single Sided, Double Sided & Multi Layer
- PCBs up to 8 layers.
- ITI is upgrading to 18-layer PCB manufacturing to meet market challenges.

Mechanical Fabrication

- CNC Turret Punch Press (30 tons), NC Pressbrakes (upto 120 tons), CNC Shearing (2.5 mtrs).
- *Capability:* Handling sheet metal work of 2mmthickness of stainless steel, 2.5mm MS & 3.2mm Aluminium.
- *Capacity:* Process about 100 tons of Sheet Metal per month.

Plating & Finishing Shop

Non cyanide plating, painting, powder coating facilities.

Plastic Injection Moulding

150 Ton to 350 Ton capacity machines to handle volume production of plastic components.
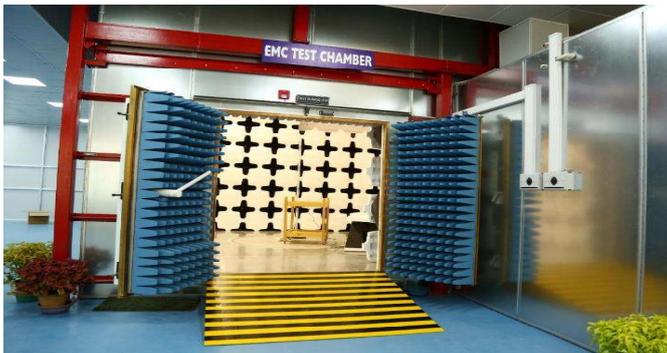
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3D Printing/ Rapid Prototyping Facilities

- FDM and POLYJET technologies
- Produce parts in over 360,000 colours, textures, gradients, transparencies up to Layer thickness as fine as 14 microns.

Telecom Testing Lab

- EMI/EMC Lab for CISPR, IEC and MIL Standard tests for Industrial, Scientific, Medical and IT equipment for Emission and Immunity requirements of TEC.
- Safety Lab.
- Specific Absorption Rate (SAR) Lab.
- Telecom Security Test Lab(TSTL).
- **Dedicated Network System Unit** for executing turnkey projects for installation and commissioning of telecommunication networks.

Vinyas, the Start-Up hub of ITI

- A 1000 seater Capacity.
- Can house both Software and Hardware Start-ups.
- Focused towards Made in India Campaign.
- Incubating and collaborating with new age start ups.
- Facilitate new Start ups in manufacturing successful products in-house and support them in marketing.

Tier 3 Data Center Facility

- ISO 27001, ISO 20000, ISO 27017, ISO 27018 certified.
- Capacity of 1350 racks equipped with centralised IBMS.
- Managed, co-location and cloud based services to government institutions/departments, banks etc.
- Meity Empanelled cloud service provided.
- CMMi level 3 certified.

Major R & D Products / Projects

- Encryption Devices: NGN BEU (E1, E3, STM-1 and STM-4), IP Encryptor, Terminal End Secrecy Device (TESD).
- Crypto systems for securing communication networks.
- Embedded software development.
- Mobile handset encryption.
- LTE based mobile cellular communication systems for defence with secrecy.
- Indian Regional Navigation Satellite System (IRNSS) receiver for Restricted Services (RS).
- Power supplies, power aggregators, charge control units for power management.
- Network planning and system integration for telecom networks.
- Portable Ventilator.

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NAINI PLANT
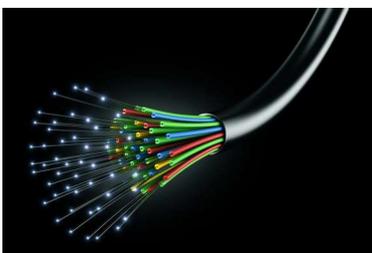
Major Products / Services

❖ Solar Panels

ITI offers ALMM & BIS Approved high efficiency Solar Photovoltaic module for long, consistent performance & Reliable operation for both On-Grid and Off-Grid Power Systems. Our manufacturing facility is accredited with MNRE Guideline; hence they comply with Global Standards.

- DWDM
- STM Products
- LED Lights
- Facilities
- Solar Module Manufacturing - 18 Mwp
- CNC Turret punching machine
- CNC Bending machine
- Conventional power presses
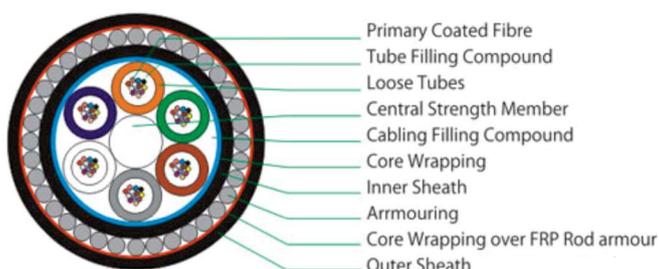- Powder coating and plating line

RAEBARELI PLANT

Major Products / Services

❖ Optical Fiber Cables

Optical Fibre Cables of different variants Typical Construction of Armoured OFC.

Primary Coated Fibre
Tube Filling Compound
Loose Tubes
Central Strength Member
Cabling Filling Compound
Core Wrapping
Inner Sheath
Arrmouring
Core Wrapping over FRP Rod armour
Outer Sheath

❖HDPE Pipes (Telecom Ducts)

❖ GPON OLTs / ONTs

ITI Limited, is one of the leading manufacturers of GPON System based on the technology with CDOT.

❖ SMPS Power Plants

- Electronic Contract Manufacturing Services
- OFC cable Laying Training facility.

Facilities

- OFCS (ADSS, UG, MF, Armoured, Ribbon) manufacturing Lines of total capacity 40000Km per year.
- HDPE Duct (40/33mm, 32/26mm, 40/34.2mm, 63/50min) manufacturing Lines of total capacity
- 30000Km per ycar.
- SMT Line of 204000CPH speed.
- PCB Assembly
- In Circuit Testing
- Cabinet & Rack Manufacturing
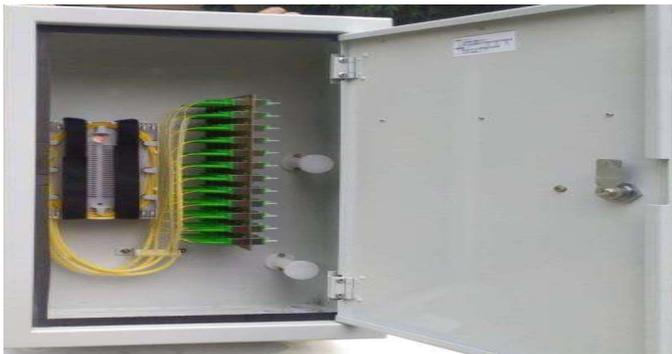
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MANKAPUR PLANT

Major Products / Services

❖ **FDMS 24F SCPC**

The Rack Mount Fiber Distribution system is designed to provide necessary interface between the underground/buried/aerial multiple fiber cable and optical equipment installed in telephone exchanges/customer premises/repeater stations. Rack mountable FDMS provide the user, front access to adapters & rear access to splice trays and pigtails

❖ **FDMS Type III B**

Fiber Distribution Box Model No.-FDMS-IIIB ITI MKP is used at building premises, provides environmental and mechanical protection for the fiber management system that includes the functions of splicing and passive component integration. It is widely used in FTTH network projects. GOVT. OF INDIA.

❖ Bundled currency counting Machine
❖ Fake Note detector
❖ Power Invertor
❖ Sanitary Napkin vending machine ONT for Optical Broadband Services
❖ C-DOT Switches
❖ LED Lighting Products

Facilities

❖ Switching Exchange Assembly
❖ SMT Line

❖ **Automatic Optical Inspection System**
❖ **X-Ray Inspection System**
❖ **BGA Rework Station**
❖ **Wave Soldering Machine**
❖ **In-Circuit Tester**
❖ **Mechanical Production Division**
❖ **CNC Turret punching machine**
❖ **CNC Bending machine**
❖ **Conventional shearing machine**
❖ **Conventional power presses**
❖ **Injection moulding machines**

❖ **Mini OLT**

GPON (Gigabit Passive Optical Network) technology offers an excellent mix of triple play services (Voice, Data & Video) to End Users. Mini OLT is a low power consumption, Ultra compact portable design, works in non-AC environment. It is suitable for office complexes.

❖ **ONT 23**

GPON (Gigabit Passive Optical Network) technology offers an excellent mix of Dual play services (Data &Video) to End Users. At the Customer premises the Termination point is Optical Network Terminal (ONT-23).

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❖ SARAL Tabs

Model - SARAL ITI T803

The perfect tablet to speed up your on the go work.

- 8 Inch 4G, Android™ 11
- QuadCore 2GHz
- 3 GB RAM
- HD Resolution
- 8MP Back Camera
- High Quality IPS Screen

Model - SARAL ITI T1030

- 10.4 Inch Screen with Android 12
- 2 GHz OctaCore
- 13 MP Back Camera
- 4 GB RAM
- 8000 mAh Battery
- High
- Quality IPS Screen

PALAKKAD PLANT

▌ Major Products / Services

❖ Mini Personal Computer (SMAASH PC)

SMAASH Mini PC is a Make in India green computing initiative and low power High performance alternative of conventional Desktop PC. Mini PC designed to boot on SSD hard disk help to save booting time, quicker Read Write operations and calmer working environment as there is no moving part in HDD as well as Mini PC.

❖ SMAASH Laptop

- Model: Core i3/I5/I7
- Processer Generation: Intel 12th Gen
- Memory: Dual channel DDR4 SD RAM 4GB/8GB/16GB
- Storage: 256 GB/512 GB/1TB SSD M2 & 500GB/1TB/2TB SATA
- Display: 14/15.6 HD
- Operating system windows 11/Ubundu
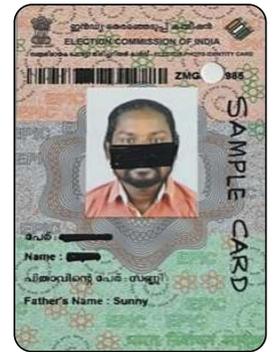- WLAN/LAN/ Bluetooth 5.0 or Higher / HDMI Type A

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❖ Smart Energy Meters

❖ Managed Lease Line Network Products
❖ Signalling transfer point products

❖ Smart Cards, Banking Cards

- Glue Tape Lamination
- Hologram & Signature Panel Hot Stamping
- Milling & Embedding
- Card Personalisation
- Existing Customers : Nationalized & Private Banks

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