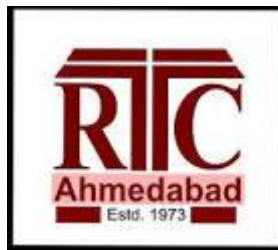**A REPORT**

ON

INDUSTRIAL VISIT

REGIONAL TELECOME TRAINING CENTER

AHMEDABAD

Organized By:
EC DEPARTMENT, L.D. COLLEGE OF
ENGINEERING-AHMEDABAD

➢ **GLIMPSE OF INDUSTRIAL VISIT:**
- Starting Date & Time: 15 September 2016
- Venue: RTTC - BSNL, Ahmedabad
- Duration: 1Day
- Faculty Member: Prof. A B Upadhyay
- Total Number of Students: 27

We students of BE-V SEM(EC) visited following labs at RTTC, BSNL Ahmedabad.

1. FTTH (Fiber to the Home).

2. MLLN (Managed Lease line Network).

3. Network Lab.

4. Broadband Lab.

5. OFC Lab (Optical Fiber Communication Lab).

6. C-DOT Lab.

7. Telecom Museum.


➢ **COMPANY PROFILE :**

Bharat Sanchar Nigam Limited (abbreviated BSNL) is an Indian state-owned telecommunications company headquartered in New Delhi, India. It is the largest provider of fixed telephony, largest broadband services provider with more than 60% Market share, and fourth largest mobile telephony provider in India. BSNL is India's oldest and largest communication service provider (CSP).

➢ **ABOUT RTTC :**

Regional Telecom Training Centre, Ahmedabad is one of the prime training centers of BSNL in the western region. It was established in 1973 catering to the training needs in telecom sector. RTTC, Ahmedabad is one of the most valued training centers of BSNL, providing quality training in the field of telecommunications, to its people as well as to the engineering students, professionals from other Government and private organizations.

➢ After a small introduction and overview of networking setup at RTTC,   all the students moved to the Telecom Museum along with faculties.

- In Telecom museum they displayed the journey of telecommunication systems from year 1850 till date.
- Then after we visited OFC (Optical Fiber Connection) lab. There the Expert explained the actual working of OFC system. He explained how the conversion of electrical signal into optical signal takes place.
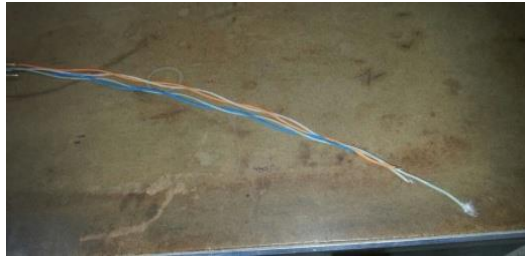
- Coordinator of switching C-Dot lab explained switching process for networking, and then we were shown the rack having 1000 boards with 1k landline user's capacity.


- **3GGP Architecture**:

The 3rd Generation Partnership Project (3GPP) is collaboration between groups of telecommunications associations, known as the Organizational Partners. The initial scope of 3GPP was to make a globally applicable third-generation (3G) mobile phone system specification based on evolved Global System for Mobile Communications (GSM) specifications within the scope of the International Mobile Telecommunications-2000 project of the International Telecommunication Union.

➢ **Equipment's at RTTC-Ahmedabad.**
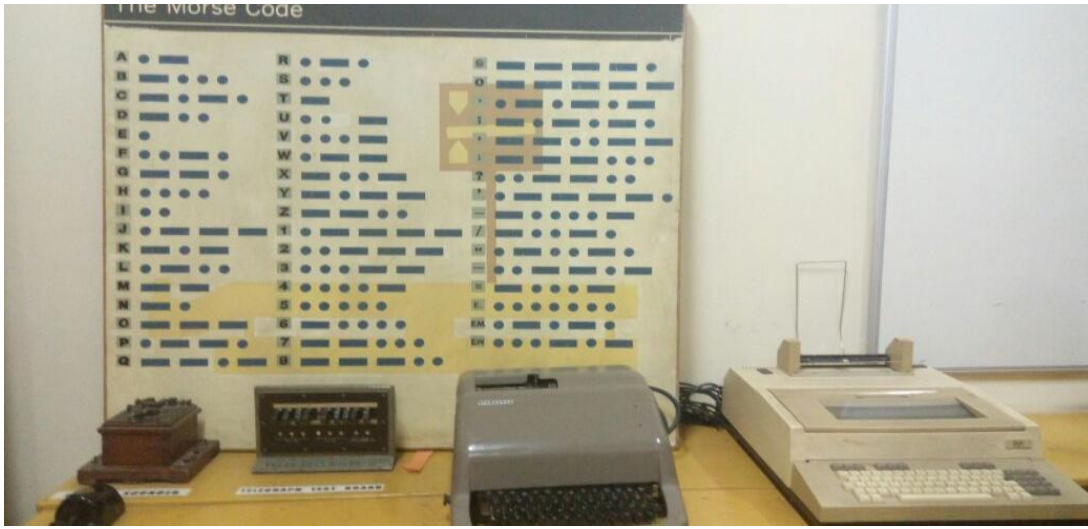
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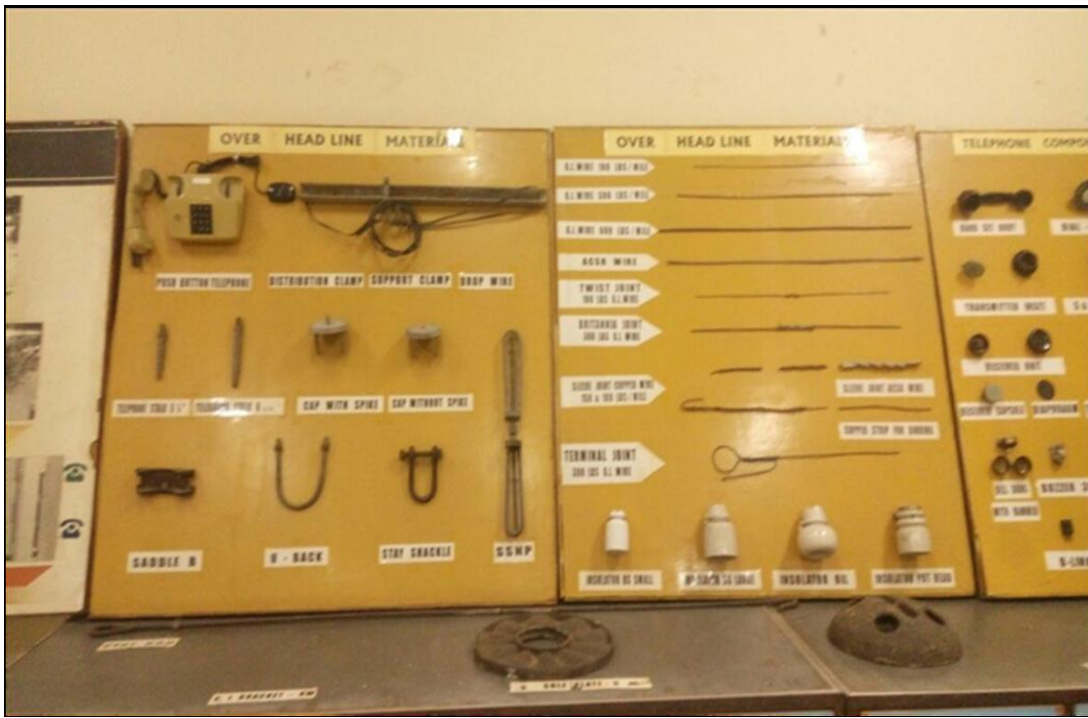
Various Component of Telecommunication System

Fiber Optical Cable

BTS

<u>**STUDENTS AT RTTC**</u>

➢ <u>**OUTCOME OF THIS ACTIVITY:**</u>

'See & know' is better motto than 'read & learn'. Students learned much practical application of Networking, Wired Communication system, FTTH and Mobile communication, how the connections are established, how they work, how to detect the error in connections and how to overcome from those errors and many more. Also they learned different advantages and disadvantage of all above mentioned technology.

➢ <u>**ACKNOWLEDGEMENT:**</u>

Students of V-SEM, sincerely thank our Principal, Dr.G.P.Vadodaria, and the Head of E & C Department Prof.Usha Neelakantan for providing this opportunity

of Industrial Visit at BSNL RTTC. We also thank Prof. S. K. Rana & Prof.A. B. Upadhyay for guiding us during the visit.

We also thank RTTC authorities who helped us through the visit.

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