

Role of TIP in telecommunication

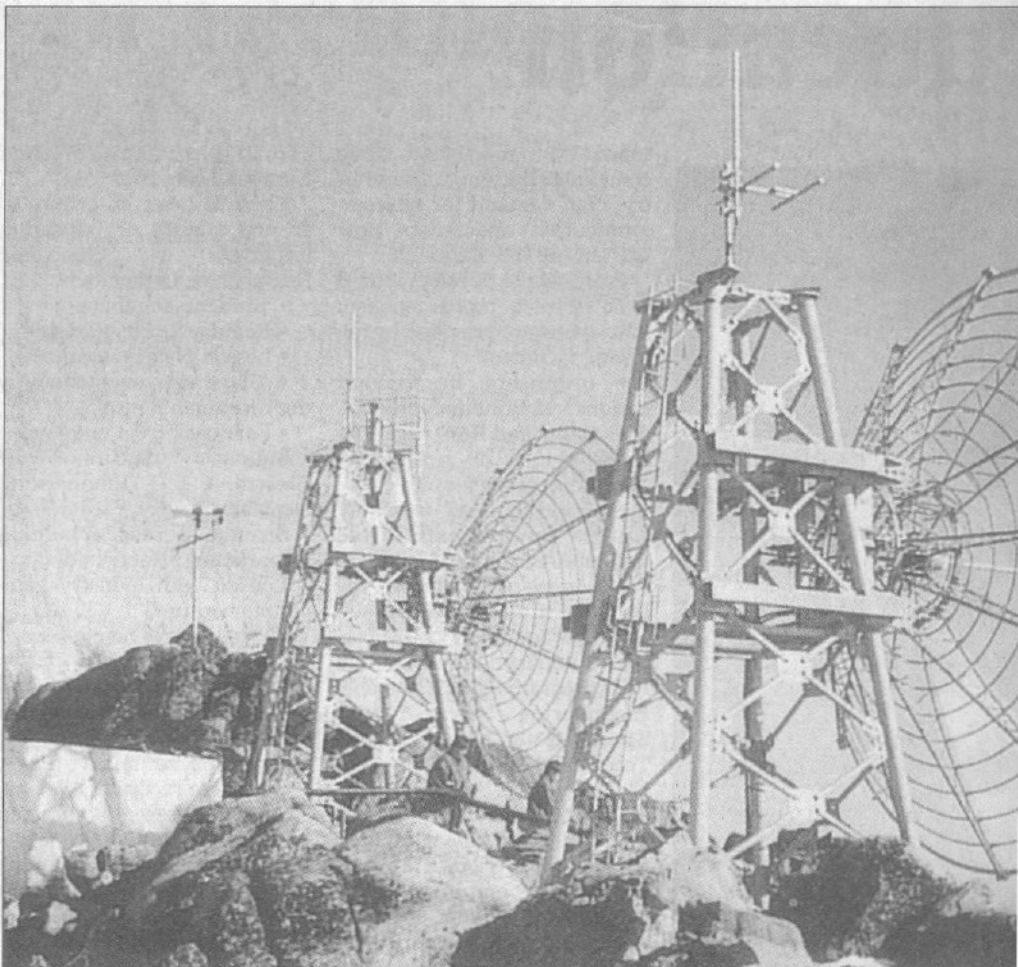
Telecommunications have played a vital role in the development of modern societies. While reliability and high quality remains the touchstone of communication systems, Telephone Industries of Pakistan (TIP) has been catering to the needs of business as well as domestic users in the country for the last 56 years. The physical work has consisted of supplying state-of-the-art switching and terminal equipment for urban as well as rural telecom network and developing services, but the real job of TIP has been building relations between people.

TIP was established in 1952 with the collaboration of Pakistan Telecommunication Corporation and SIEMENS AG of Germany with an authorized capital of 100 million. The foremost objective was to manufacture and supply telecom switching equipment so as to fulfill the country's requirement. Initial capacity of the factory was manufacturing of 7,000 exchange lines and required number of telephone instruments. To cope with the growing demand, the production capacity was increased progressively to 40,000 subscriber lines and 70,000 telephone instruments by the end of 1968-69. During this period, production of other allied items of telecommunication like Private Automatic Branch Exchanges, transmission equipment and tele-printers etc were also undertaken in TIP.

In 1987 an agreement was signed with M/s Siemens to acquire latest technology of digital exchanges and latest models of telephones. Thus both the partners made additional investments in different phases, which raised the authorized capital of the company to about 1,000 million.

During the last 20 years TIP supplied, installed and commissioned about 3.5 million ports, which helped in achieving the objective of providing telephone facilities of latest technology throughout Pakistan. TIP also shared the task of replacing Electro-Mechanical Telephone Exchanges with Digital Exchanges which not only brought the digital technology in Pakistan but has saved substantial foreign exchange. For this project, TIP trained its engineers and technicians both at home and abroad.

Digital switching system is the latest advancement in



telecommunication technology and has all the features required for IT and Data Communication such as:

- A complete range of telecom services from a single source
- Advanced Subscriber Services (AD-SS)
- Integrated Services Digital Network (ISDN)
- Internet Supplementary Services

All the products are designed according to the CCITT standards and are also approved by Pakistan Telecommunication Authority (PTA)

- Euro Set 210
- Euro Set 802
- Euro Set 805S feature phone with speed dialing
- Set 802M feature phone with speed dialing
- CLI Telephone Set
- Steno Telephone 802-210

In 1994 TIP was the first public sector organization, which developed indigenous design of Single Phase Energy Meter, as a diversified product to utilize its surplus capacity for electro mechanical products. This was a step forward towards "self reliance.

The Single Phase Energy Meter "AL-MEEZAN" is a masterpiece of TIP's technical skill and precision engineering capability. Its non-reversible revolving disc prevents possibilities of pilferage. Ninety five percent (95%) of its parts has been locally developed. As a result, the supply of spare parts can be frequently and easily accessible for maintenance of the product. Passed by WAPDA Central Laboratories, the meter is highly accurate and built on (IEC-521), Geneva Standards and WAPDA specifications DDS-22-91.

New Cross Connection Cabinet and DP Boxes (Pole Type & Pillar Type) are being manufactured with IDC (Insulation Displacement Connection), which is the prime requirement of IT, and Data Transfer.

TIP has established a facility for manufacturing of telephone's Drop Wire indigenously. Now the factory has a capacity to produce 25,000 Kilometers Drop Wire per year according to PTCL specifications LW-40J.

Precision manufacturing facilities in sheet metal on

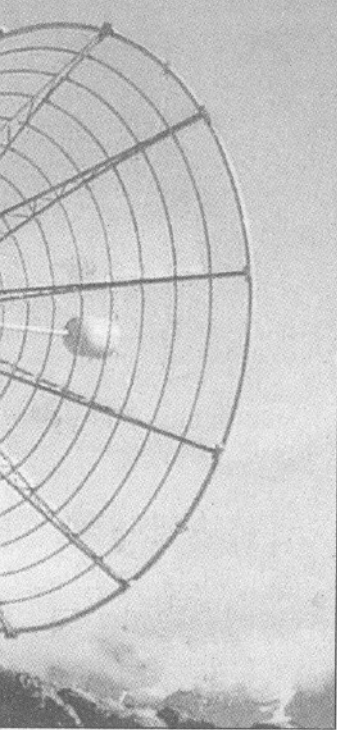
CNC machines like Nibbling & Punching Press, Wire cutting, Spark Erosion and Milling are also available.

All the manufacturing processes are interrelated through strict Quality Assurance with the help of precision measuring & testing equipment to test and maintain sophisticated gauges and production tools. Material testing laboratory is available to analyze almost all types of ferrous and non-ferrous material and chemicals. TIP has also established incoming Goods Testing facilities for all types of electronic components including Memory ICs, Micro Processors & VLSI (Vary Large Scale Integrated Circuits) which are also mounted on self manufactured high quality printed circuit boards (PCB) and open ended Hybrid circuits.

A well equipped Tool Making workshop with highly sophisticated machinery including shaping, milling, precision grinding and computerized numerical controlled (CNC) wire cutting and spark erosion machines is a state-of-the-art facility in Pakistan.

TIP has been training staff in

ication



its own training school established in 1954 imparting training in different trades like designing, draughting, tool making and Electro-mechanical field as well as the latest telecom and computer technologies. These qualified technicians are not only serving in TIP but are also engaged in the Hi-tech organizations within and outside the country.

TIP products manufactured by TIP meet the international standards specifications and have the possibility of its market in Central Asian Countries, Middle Eastern Countries and other developing countries in case its prices are competitive in the world market. Tariffs on raw materials/components and complicated import procedures make our products non-competitive in the international markets. In order to nurture our industrial growth, it is essential that the tariff barriers have to be eased off.

Improvement in the production facilities of TIP is underway which would not only enhance their capabilities but also enable them in introducing new products in the existing range.