

# Services Provided

## Consultancy and Technical Assistance

Some of the services offered are :

- Inspection and testing services
- Maintenance services
- Acceptance testing services
- Works supervision services
- Overview and demand forecast reporting
- Technical support and system engineering
- Technical assistance agreements to telecommunications administrations, operators, and contractors
- Preparation of demographic and related studies to determine long term forecasts for telecommunications demand
- Overview and demand forecast reporting to identify growth trends and determination of proposed switching centre/node location in a country
- Study of socio-economic aspects of telecommunications development in isolated and/or under privileged areas of countries
- Establishment of budget models for telecommunications administrations
- Study and recommendations on optimum allocation and use of scarce resources in order to meet telecommunications needs in urban or rural areas of country
- Determination of the economic impact of new services on telecommunications administrations
- Study of Management Information Systems (MIS) for telecommunications administrations and appropriate application of the Information Technology (IT)
- Study of rural telecommunications requirements
- Study and technical assistance in preparation of specifications for materials and work practices used in fixed networks, radio towers, telecommunications buildings and power plants
- Project planning and preparation of tender documents for projects including technical specifications invitation documents, general conditions and bills of quantity
- Tender evaluation assistance, including contract negotiations with suppliers and preparation of contract documents
- Assistance in the preparation of capital and development plan for a telecommunications administration or operator
- Budgetary advice and assistance on proposed capital development projects
- Advice on organisational restructuring
- Advice on increasing profitability, productivity and service effectiveness within a telecommunications administration or company
- Planning and design of networks including fibre optics, fixed copper, fixed network, cellular mobile and microwave radio systems and HFC networks

- Planning, design, installation and maintenance of defence telecommunications networks
- Feasibility studies for telecommunications projects
- Master planning of telecommunications networks
- Detailed design of telecommunications networks and systems

## Training Services

We provide instructor led craft skills training in the following disciplines of telecommunications engineering:

- Hybrid Fibre Coax (HFC) networks
- Fibre optics networks
- CATV networks
- Civil works
- Planning and design of telecommunications networks and systems
- Fixed copper networks
- Mobile networks
- Radio tower and support structure design and erection
- Occupational health and safety training
- Project Management
- Next Generation Network (NGN)

We currently have 130 training courses available of various subjects. Course design and other training services:

- Training Needs Analysis (TNA) studies to evaluate training needs and gaps
- Design of training courses to suit training needs
- Supply of experienced training personnel
- Assistance in training of telecommunications administration training staff i.e., 'Train the Trainer'.
- Design of training centres and colleges
- Seminars, presentation and technical assistance in the implementation of new products and works methods
- Preparation of training materials, documentation and manual

## Planning and Design Services

- System design and engineering of Local Area Network (LAN), private dedicated networks utilising fibre optic technology
- System design and engineering of transmission systems for fibre (MAN and WAN) optic networks
- System design and engineering of CATV and Hybrid Fibre Coaxial (HFC) cable systems
- Splicing, testing and commissioning of fibre optic and HFC networks

## Networks Management and Monitoring Systems

- Network Management Systems (NMS)
- Monitoring systems for outside plant pressurised and fully filled fixed cable networks
- Cabinet locking systems
- Gas Monitoring and sentinel systems
- SCADA and telemetry systems for water, electricity, oil and gas pipeline applications Lighthouse control and buoy monitoring systems
- Vehicle tracking systems
- Remote services monitoring systems
- Preparation of demographic and related studies to determine long term forecasts for telecommunications demand
- CCTV and fence intrusion systems
- Local Area Network (LAN) for industrial complexes including SCADA for process control applications and PABX requirements
- Security systems
- 'Smart House' systems

## Project Management and Supply of Manpower

- Technical Assistance Agreements to supervise and manage
- ICT/Telecommunications projects for ICT/Telecommunications Administrations or Contractors, on full or semi-turnkey basis.
- Supply and attachment of skilled manpower and project management services during project implementation
- Attachment of consultants or advisors to undertake studies of projects for ICT/Telecommunications Administrations, Operators and contractors.
- Factory inspection and witness of factory tests
- Installation inspection and acceptance tests
- Guarantee and operation inspection tests
- Radio tower erection and digging services

- Advance Detection services
- Planning and Design services

## **Product and Services**

- Sourcing and supply of ICT/Telecommunications materials and products
- Sourcing and supply of ICT/Telecommunications services
- Sourcing and supply of ICT/Telecommunications systems
- Sourcing and supply of ICT/Telecommunications equipment

## **Software Development**

- The design, specification, development, installation and commissioning of specialised ICT and Telecommunications software
- Identification of ICT/Telecommunications administration Information Technology (IT) requirements
- Integration of Information Technology (IT) systems within a ICT/Telecommunications administration