

**LICENSE DIRECTIVE FOR THE INSTALLATION
AND MAINTENANCE OF CABLE, WIRELESS
LOCAL LOOP, EXCHANGE AND MAINTENANCE
OF TERMINAL EQUIPMENT IN
TELECOMMUNICATION SERVICE
(A translation from the Amharic version)**

**November 8, 2002
Addis Ababa**

This Directive is issued by the Ministry of Infrastructure in accordance with Article 10 Sub-Article 4 of the Telecommunication Proclamation No.49/1996 (as amended).

Article One

Short Title

This Directive may be cited as "**License Directive for the Installation and Maintenance of Cable, Wireless Local Loop, Exchange and Maintenance of Terminal Equipment in Telecommunication Service No. 2/2002.**"

Article two

Definitions

Without prejudice to the application to this Directive of the Definitions of the Telecommunication Proclamation No.49/1996 (as amended) and Council of Ministers Regulations No.47/1999; in this Directive, unless the context requires otherwise;

1. "**Ministry**" shall mean Ministry of Infrastructure.
2. "**Agency**" shall mean Ethiopian Telecommunication Agency.
3. "**Person**" shall mean natural or legal person.
4. "**Corporation**" shall mean an entity defined as the Sole Telecommunications Service Provider under Article 2 Sub-Article 3 of the Telecommunication Proclamation No.49/1996 (as amended).
5. "**In-house /Building Cable Installation**" shall mean the installation or maintenance of telecommunication cable or wire in a house or building and shall include activities listed under Article 3 of this Directive.
6. "**Outside Cable Installation**" shall mean the installation and maintenance of telecommunication cable which extends from the Main Distribution Frame (M.D.F) up to the subscriber's house or building and a drop wire which enters into subscriber's premise. It shall include the installation and maintenance of wireless lines (Wireless Local Loop) that are installed from the telecommunication exchange up to subscriber's house and activities listed under Article 4 and Article 5 of this Directive.
7. "**Exchange Installation**" shall mean the installation and maintenance of M.D.F and central telecommunication equipment which is used to transmit voice or data from one point to another and prepare subscriber's bill. It shall include activities listed under Article 6 of the Directive.

8. **"Terminal Equipments"** shall mean telecommunication equipments that require the Agency's approval on the basis of the list issued or to be issued from time to time by the Agency.
9. **" Service Cost"** shall mean the cost that remains by deducting the cost of supply of equipment from the total cost of a bid which is issued by the Corporation for Outside Cable Installation.
10. **"Turn Key Service"** shall mean Outside Cable or Exchange Installation performed through the provision of professional service coupled with supplying equipment required for the Outside Cable or Exchange Installation as determined by the bid issued by the Corporation.

Article Three

In-house/Building Cable Installation

In-house/Building Cable Installation shall include the following:

1. Laying conduits that are needed inside a house or building in a desired place and appropriate length or diameter.
2. Preparing a frame where the line brought in by the Corporation will be jointed with the line laid inside a house or building.
3. Installing P.B.X.
4. Installing telephone distribution terminals in a suitable place inside a house or a building.
5. Installing, interconnecting and verifying cable and wire installations needed inside a house or building.
6. Preparing records and documents showing the work done.
7. Maintaining In-house/Building Cable.

Article Four

Outside Cable Installation

Outside Cable Installation shall include the following:

1. Installing primary cable which extends from the M.D.F up to the cross connection cabinet.
2. Fixing, inside the cable cellar, horizontal and vertical supportive metal frames which support to carry the cables.
3. Installing secondary cable which extends from distribution box up to terminal box.
4. Installing drop wire which extends from terminal box up to subscriber's house or building.
5. Installing cable line with terminal box, laid down from M.D.F directly to building.

6. Laying down primary distribution cable extending from M.D.F and which directly enters terminal boxes.
7. Carrying out civil works like duct laying, manhole and excavation works which are necessary for laying down of cable.
8. Installing Cable Cabinet and terminal blocks; laying cable underground; installing poles and, fixing the necessary equipment on the poles and laying cable on the poles; installing terminal boxes.
9. Performing recovery of materials work.
10. Preparing records and documents showing the exact work done.
11. Maintaining Outside Cable.

Article Five

Wireless Local Loop Installation

Wireless Local Loop Installation shall include the following:

1. Installing a base station controller with a management system and other associated equipment.
2. Connecting telecommunication exchange with the base station equipment.
3. Establishing, as may be necessary, a base station with all the complete set of the associated equipment.
4. Installing, on a house or building of a subscriber, radio equipment which helps as receiver and transmitter.
5. Performing, as may be necessary, surveying and cell planning work.
6. Preparing records and documents describing the work done.
7. Installing subscriber unit which is useful for Wireless Local Loop.
8. Maintaining Wireless Local Loop.

Article Six

Exchange Installation

Exchange Installation shall include the following:

1. Preparing floor plan on the place selected for Exchange Installation.
2. Doing metal works which helps for installation.

3. Assembling the exchange and its associated materials and fix them at an appropriate place.
4. Installing M.D.F and Digital Distribution Frame (D.D.F).
5. Connecting the Exchange with the M.D.F and D.D.F using cable; connecting the power source lines of the exchange.
6. Installing appropriate exchange grounding system.
7. Preparing documents that describe the exchange installations work and performing labeling work on the cables and equipment.
8. Without prejudice to the acceptance test issued by the Corporation, testing the integration of exchange installed with transmission, power and outside plant.
9. Uninstalling exchanges as may be necessary.
10. Maintaining Exchange.

Article Seven

Requirement of License and Types of Licenses

1. Requirement of License

Any person, in order to carry out In-house/Building Cable Installation or Outside Cable Installation or Exchange Installation or Terminal Equipment Maintenance Service, shall have a license from the Agency issued in accordance with this Directive.

2. Types of Licenses

A. In-house/ Building Cable Installation License

In-house/Building Cable Installation License shall allow doing In-house/Building Cable Installation.

B. Outside Cable Installation License

i. Grade I Outside Cable Installation

Grade I Outside Cable Installation License shall allow doing Wireless Local Loop Installation and providing Turn Key Service with regard to Outside Cable Installation.

ii. Grade II Outside Cable Installation License

Grade II Outside Cable Installation License shall allow doing Outside Cable Installation, excluding Wireless Local Loop Installation, or Outside Cable

Installation having a service cost not exceeding Birr 5,000,000 (Five Million Birr) .

C. Exchange Installation License

i. Grade I Exchange Installation License

Grade I Exchange Installation License shall allow providing Turn Key Service with regard to Exchange Installation.

ii. Grade II Exchange Installation License

Grade II Exchange Installation License shall allow doing Exchange Installation.

D. Terminal Equipment Maintenance License

i. Grade I Terminal equipment Maintenance License

The license shall allow doing maintenance of terminal equipment assisted by technical laboratory and workshop useful for maintenance of terminal equipment, and supply of spare parts of terminal equipment.

ii. Grade II Terminal Equipment Maintenance License

The license shall allow doing maintenance of faults of terminal equipment without the need of having laboratory and workshop necessary for Grade I Terminal Equipment Maintenance License.

Article Eight

License Requirements

1. Any person, before issued with a license that are enumerated under Article 7 Sub - Article 2 of this Directive, shall fulfill, for each license it is applying for, the requirements specified under Annex I of this Directive.
2. Without prejudice to the provision of Sub- Article 1 of this Article, any person that applies for a license shall submit the following:
 - A) Principal Registration Certificate from the concerned office as per Article 5 sub-Article 1 of Business Registration and License Proclamation No 67/1997.
 - B) Memorandum and Article of Association, if it is a Business Organization.
 - C) Evidence showing educational background and work experience of the professional workers and if the professional workers are employed, their contract of employment made with the owner or the business organization.

- D) 2 photographs (portrait) of an applicant or, if it is a business organization, 2 photographs (portrait) of the Manager.

Article Nine

Application for, Issuance and refusal of License

1. Any person, in order to be issued with a license in accordance with this Directive, shall submit its application to the Agency.
2. An application shall be submitted using the application form attached with this Directive as Annex II. The application form may, for practical purposes, be modified by the Agency.
3. If an applicant submits a license application form, by fulfilling all the requirements of a license for the type of license it is applying for as indicated under this Directive, the Agency shall issue a license within five working days.
4. If an applicant does not fulfill all the requirements of this Directive for the type of license applied for, the Agency shall refuse to issue a license. The Agency shall notify an applicant, in writing, within five working days, the reason for its refusal.

Article Ten

License Fees, Validity Period and Renewal of a License

1. Validity Period and Renewal

A license issued by the Agency shall be valid for a period of one government fiscal year and shall be renewed every year from Hamle 1 to Hamle 30 Ethiopian Calendar.

2. In-house/Building Cable Installation License Fee

- a) An applicant shall pay Birr 1919 (One Thousand Nine Hundred Nineteen) to the Agency when issued with In-house/Building Cable Installation License.
- b) An applicant shall pay Birr 576 (Five Hundred Seventy Six) to the Agency when renewing In-house/Building Cable Installation License.

3. Outside Cable Installation License Fees

- a) An applicant shall pay Birr 3838 (Three Thousand Eight Hundred Thirty Eight) to the Agency when issued with Grade I License.
- b) An applicant shall pay Birr 1151 (One Thousand One Hundred Fifty One) to the Agency every year when renewing Grade I License.

- c) An applicant shall pay Birr 3070 (Three Thousand Seventy) to the Agency when issued with Grade II License.
- d) An applicant shall pay Birr 921 (Nine Hundred Twenty One) to the Agency every year when renewing Grade II License.

4. Exchange Installation License Fees

- a) An applicant shall pay Birr 3838 (Three Thousand Eight Hundred Thirty Eight) to the Agency when issued with Grade I License.
- b) An applicant shall pay Birr 1151 (One Thousand One Hundred Fifty One) to the Agency every year when renewing Grade I License.
- c) An applicant shall pay Birr 3070 (Three Thousand Seventy) to the Agency when issued with Grade II License.
- d) An applicant shall pay Birr 921 (Nine Hundred Twenty One) to the Agency every year when renewing Grade II License.

5. Terminal Equipment Maintenance License Fee.

- a) An applicant shall pay Birr 1919 (One Thousand Nine Hundred Nineteen) to the Agency when issued with Grade I Terminal Equipment Maintenance License.
- b) An applicant shall pay Birr 576 (Five Hundred Seventy Six) to the Agency every year when renewing Grade I Terminal Equipment Maintenance License.
- c) An applicant shall pay Birr 1535 (One Thousand five Hundred Thirty Five) to the Agency when issued with Grade II Terminal Equipment Maintenance License.
- d) An applicant shall pay Birr 461 (Four Hundred Sixty One) to the Agency every year when renewing Grade II Terminal Equipment Maintenance License.

Article Eleven

Duties of the Licensee

1. A licensee shall comply with the provisions of this Directive and other relevant laws.
2. A licensee shall only be allowed to work, based on the license issued to it under this Directive, activities which enumerated on the license.
3. A licensee shall renew its license within the period fixed under Article 10 Sub-Article 1 of this Directive.

Article Twelve

Powers and Duties of the Agency

1. The Agency is the licensing and implementing authority of this Directive. It is also responsible to ensure the proper implementation of this Directive.
2. The Agency shall, on the basis of this Directive, take measure on a licensee that contravenes obligation laid down in the Directive.

Article Thirteen

Revocation of License and

Criminal Liability

1. If the Agency discovers that a licensee got the license by false or fraudulent document or if a licensee is bankrupt or quits operation or if the period of renewing the license has expired, the license shall be revoked.
2. Any person that engages in providing service without having a license or a valid license, as per this Directive, shall criminally be responsible on the basis of Article 25 Sub-Article 1 of Telecommunication Proclamation No.49/1996 (as amended).

Article Fourteen

Amendment of the Directive

The Ministry has the power to amend or change this Directive.

Article Fifteen

Effective Date

This Directive shall come into force as of the 8th day of November, 2002.

Done at Addis Ababa, on the 8th day of November, 2002

Kassu Yilala (Dr.)

Minister of Infrastructure

**License Requirements as
per Article Eight Sub-Article 1
Of the Directive**

1. Requirements for In-house/Building Cable Installation License

A. Manpower

- A graduate, at least with degree, in the field of telecommunication, electrical or electronic engineering.
- Two outside plant technicians who graduated, at least with certificate, in the field of electricity, electronics or telecommunication from technical school institute or college.
- Two linemen, after finishing their formal education, graduated at least with certificate as linemen from technical school, institute or college, or who have evidence showing that they have experience as linemen in the field of telecommunication.

B. Tools and Instruments

For In house/Building License at least the following tools and instruments are required:

- 2 Cable Cutter
- 2 Crimping tool for connectors
- 2 Insertion tools Wire Trippers
- 1 Continuity Tester
- 1 Field Telephone Set

C. Capital

An applicant that applies for In-house/Building Cable Installation License shall have a Capital of Birr 15,000 (fifteen thousand).

2. Requirements for Grade I Outside Cable Installation License

A. Manpower

- Two graduates, at least with degree, in the field of telecommunication, electrical or electronic engineering having two years of work experience.
- Eight outside plant technicians who graduated at least with certificate in the field of electricity, electronics or telecommunication from technical school, institute or college.

- Eight linemen who graduated at least with certificate in the field of electricity or electronics from technical school, or persons who have evidence showing that they have experience as linemen in telecommunication services.

B. Tools and Instruments

For Grade I Outside Cable Installation License, at least the following tools and instruments are required:

i. Tools

- 8 Screw Driver and Nipper Side Cutter
- 8 Cable Cutter
- 2 Cable Laying Winch
- 2 Duct Cable Grip
- 4 LP Gas Torch kit (Complete)
- 4 Splicing Rig with Crimping Tool
- 2 Lineman/Joiner Tent
- 4 Ladder Extension
- 8 Hand Compression Tool
- 8 Stainless Steel Band Tensioning Tool and Dispenser
- 6 Drill Machine
- 30 Aerial Cable Roller
- 2 Cable Drum Jack (Complete)
- 8 Pole Climbing Shoe with Safety Belt
- 8 Wire Stripper
- 5 Aerial Cable Stretcher and Wire Grip
- 2 Duct rods {(each 1 meter 150 pieces (rods)}
- 2 Duct Cleaning Devices
- 8 Insertion and Disconnection Tool (IDC type)
- 2 Ducts snake (200 meter length)
- 2 optical fiber cable tools (complete)

ii. Instruments

- 8 Continuity tester (Head set)
- 8 Pair identification test set
- 4 Digital insulation tester/Digital bridge megger
- 4 digital field telephone set
- 2 Digital cable fault locator (time domain reflectometer)
- 1 Digital cable route/ depth locator
- 1 Optical fiber fusions splicing equipment
- 1 Optical time domain reflectometer (OTDR)

C. Capital

An applicant that applies for Grade I Outside Cable Installation License shall have a Capital of Birr 500,000 (five hundred thousand Birr).

D. When an applicant for Grade I Outside Cable Installation License has civil engineering work, it shall;

- i. Employ a civil works construction company having GC6 or BC6 Grade for the civil works or
- ii. Hire a degree graduate civil engineer having two years of work experience and shall either buy or rent equipments which a GC6 or BC6 construction company uses for civil works in relation to Grade I Outside Cable Installation.

3. Requirements for Grade II Outside Cable Installation License

A. Manpower

- A graduate, at least with degree, in the field of telecommunication, electrical or electronics engineering having two years of work experience.
- Four outside plant technicians who graduated at least with certificate in the field of electricity, electronics or telecommunication from technical school, institute or college.
- Four linemen who graduated at least with certificate in the field of electricity or electronics from technical school, or persons who have evidence showing that they have experience as linemen in telecommunication services.

B. Tools and Instruments

For Grade II Outside Cable Installation License, at least the following tools and instruments are required:

- i. Tools
 - 4 Screw Driver and Nipper Side Cutter
 - 4 Cable Cutter
 - 1 Cable Laying Winch
 - 1 Duct Cable Grip
 - 2 LP Gas Torch kit (Complete)
 - 2 Splicing Rig with Crimping Tool
 - 2 Lineman/Joiner Tent
 - 3 Ladder Extension
 - 4 Hand Compression tool
 - 4 stainless Steel Band Tensioning tool and dispenser
 - 3 Drill Machine

- 15 Aerial Cable Roller
- 2 Cable Drum Jack (Complete)
- 4 Pole Climbing Shoe with Safety Belt
- 4 Wire Stripper
- 3 Aerial Cable Stretcher and Wire Grip
- 1 Duct rods {each 1 meter 150 pieces (Rods)}
- 1 Duct cleaning Devices
- 4 Insertion and Disconnection Tool (IDC type)
- 1 Ducts snake (200 meter length)
- 1 Optical fiber cable tools (complete)

ii. Instruments

- 4 Continuity tester (Head set)
- 4 Pair identification test set
- 3 Digital insulation tester/Digital bridge megger
- 3 Digital field telephone set
- 1 Digital cable fault locator (time domain reflectometer)
- 1 Digital cable route/ depth locator
- 1 Optical fiber fusion splicing equipment
- 1 Optical time domain reflectometer (OTDR)

C. Capital

An applicant that applies for Grade II Outside Cable Installation License shall have a capital of Birr 100,000.00 (one hundred thousand Birr).

D. When an applicant for Grade II Outside Cable Installation License, has a civil engineering work, it shall;

- i. Employ a civil works construction company having GC6 or BC6 Grade for the civil works or
- ii. Hire a degree graduate in civil engineering having two years of work experience and shall either buy or rent equipments which a GC6 or BC6 construction company uses for civil works in relation to Grade II Outside Cable Installation.

4. Requirements for Grade I Exchange Installation License

A. Manpower

- Two graduates, at least with degree, in the field of communication, electrical or electronics engineering having at least four years of work experience in exchange installation.
- Two hardware and software certified professionals.

- Four technicians who graduated at least with certificate in the field of electricity, electronics or exchange from technical school, institute or college having two years of work experience in exchange installation,
- Four exchange installers, after finishing their formal education graduated at least with certificate from technical school, institute or college and having, one year experience in installing or uninstalling Exchange.

B. Equipments

For Grade I Exchange Installation License, at least the following equipments are required:

- 4 drill machine
- 4 hand tools (complete)
- 3 test and measuring instrument (complete)

C. Capital

An Applicant that applies for Grade I Exchange Installation License shall have a capital of Birr 500,000.00 (five hundred thousand Birr).

5. Requirements for Grade II Exchange Installation License

A. Manpower

- A graduate, at least with degree, in the field of communication, electrical or electronics engineering having at least two years of work experience in exchange installation;
- One hardware and software certified professional.
- Two technicians who graduated at least with certificate in the field of electricity, electronics or exchange from technical school, institute or college;
- Two exchange installers, after finishing their formal education, graduated at least with certificate from technical school, institute or college and having one year experience in installing or uninstalling exchange.

B. Equipments

For Grade II Exchange Installation License, at least the following equipments are required:

- 2 drill machine
- 2 hand tools (complete)
- 2 test and measuring instrument (Complete)

C. Capital

An applicant that applies for Grade II Exchange Installation License shall have a capital of Birr 100,000.00 (one hundred thousand Birr).

6. Requirements for Grade I Terminal Equipment Maintenance License

A. Manpower

No less than five technicians who graduated at least with certificate in the field of electricity, electronics or telecommunication from technical school, institute or college.

B. Equipments and Technical Workshops

For Grade I Terminal Equipment Maintenance License, at least the following equipments and technical workshops are required:

- Different testing and maintenance equipments which are necessary to maintain terminal equipments.
- One technical Workshop.

C. Capital

An applicant that applies for Grade I Terminal Equipment Maintenance License shall have a capital of Birr 15,000 (fifteen thousand).

6. Requirements for Grade II Terminal Equipment Maintenance License

A technician may be issued with Grade II Terminal Equipment Maintenance License, if the technician,

- graduated at least with certificate in the field of electronics or telecommunication from technical school, institute or college or
- without having formal technical education, has acquired technical knowledge through experience and passes the exam given by the Agency.

**Application Form for the Installation and Maintenance
of Cable, Wireless Local Loop, Exchange and Maintenance
Of Terminal Equipment in Telecommunication Service**

1. Name of an Applicant_____

2. Address of an Applicant

Region_____ P.O.Box_____

Woreda_____ Telephone_____

City_____ Fax_____

Kebele_____ e-mail_____

3. Telecommunication service in which an Applicant is applying for:

3.1 Type of License

3.1.1. In- house/Building Cable Installation License

3.1.2. Outside Cable Installation License

Grade I

Grade II

3.1.3 Exchange Installation License

Grade I

Grade II

3.1.4. Terminal Equipment Maintenance License

Grade I

Grade II

4. List of manpower (in number) available for a license an applicant is applying for.

Electrical Engineers

Hardware and Software Professionals

Technicians

Linemen

Exchange Installers

Civil Engineer

5. Number and type of equipments an applicant fulfills for a license it is applying for:

5.1 Number and type of tools

5.2 Number and type of instruments

6. Applicant's Capital_____

I, the applicant herewith apply for a license by certifying that the above presented information is true and correct.

Name of an Applicant_____

Signature_____

Date_____

Notice

- If an applicant is a business organization, it shall attach its Memorandum and Article of Association.
- An applicant shall attach the Principal Registration Certificate which it is registered for business as per Article 5 Sub-Article 1 of the Business Registration and License Proclamation No 67/1997.
- Evidence showing educational background and work experience of the professional workers and if the professional workers are employed, their contract of employment with the owner or business organization shall be attached.
- Two photographs of the applicant, or if the applicant is a business organization two photographs of the Manager shall be attached.
- An applicant may not apply for more than one license using one application form.
- If the Applicant does not renew its license every year before Hamle 30, the license shall be revoked.