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PART II

Statutory Notifications (S. R. O.)

GOVERNMENT OF PAKISTAN

PAKISTAN TELECOMMUNICATION AUTHORITY

NOTIFICATION

Islamabad, the 12th April, 2012

S. R. O. 738 (I)/2012.—In exercise of powers conferred under clause (o) of sub-section (2) of section 5 read with sub-section (3) of section 29 of the Pakistan Telecommunication (Re-organization) Act, 1996, the Pakistan Telecommunication Authority is hereby makes the following regulations, namely:

PART - I

Preliminary

1. **Short title and commencement.**—(1) These Regulations shall be called “Telecommunication and Terminal Equipment Installer Regulations, 2012”.
- (2) These Regulations shall come into force from the date of gazette notification.

(3671)

2. **Definitions.**—(1) In these Regulations, unless there is anything repugnant in the subject or context:—

- (a) **“Act”** means the Pakistan Telecommunication (Re-organization) Act, 1996;
- (b) **“Authority”** means the Pakistan Telecommunication Authority established under section 3 of the Act;
- (c) **“Certified Minimum Qualification”** means basic diploma/3-year diploma (electrical/electronic/telecom) from recognized Government of Pakistan (federal/provincial) institutes and all such other certifications approved by the Authority from time to time;
- (d) **“Certified Telecommunication and Terminal Equipment Installer (Certificate)”** means a person who has been issued a certificate for installation of telecommunication and terminal equipment by the Authority under these regulations;
- (e) **“License”** means an authorization granted by the Authority for the establishment, operation and maintenance of a telecommunication system or provision of any telecommunications service;
- (f) **“Person”** shall include a natural person, class of persons, company or co-operation etc;
- (g) **“Premises”** means a class 5 central office (Local Access Exchange) or equivalent, commercial building(s) with more than three storey's above ground alongwith terminating access network;
- (h) **“TMA”** means Town Municipal Authorities; and
- (i) **“Network Termination Point (NTP)”** means the point of termination on a telecommunication system at which the terminal equipment may be connected.

(2) Words and expressions used herein but not defined shall have the same meaning assigned to them in the Act, Rules and Regulations.

3. **Scope and Applicability**—(1) The objective of these regulations is to register and ensure a minimum standard of qualification is possessed by the Telecommunication and Terminal Equipment Installer to install quality telecom equipment and Premises telecommunication wiring which enables the occupiers with uninterrupted access to multi-play telecom services or broadband using latest

technologies. All installations (both wired and wireless) has to be laid through a Certified Telecommunication and Terminal Equipment Installer.

(2) These Regulations shall apply to access networks consisting of wireless, wire/cable (coax, copper, fiber) and telecommunication equipment connecting essentials laying within the Premises, other than plug into socket, including but not limited to NTP at a Premises. PTA "Guidelines on In-house Telecom Wiring" may be referred, where applicable.

PART - II

Telecom Operator & Premises Owner Obligations

4. **Telecom Operator Obligations.**—(1) A Licensee shall not provide any telecommunications service at a Premises where the telecommunication equipment is not installed by a Certified Telecommunication and Terminal Equipment Installer in accordance with the standards prescribed in these regulations.

(2) All Local Loop (Fixed Local Loop & Wireless Local Loop) licensed telecom operators shall be required to obtain a Certificate from the Authority if any equipment is required to be installed at the customer Premises.

(3) The Network Termination Point shall be securely fixed at the closest customer Premises from the outside plant. If the terminal equipment is provided by the Licensee the NTP shall be extended upto the terminal box. The licensed operators shall maintain all NTP termination and installation records for the duration of the service.

5. **Premises Owner Obligation.**—Premises telecommunication installations shall be the responsibility of the Premises owner.

PART - III

Telecommunication and Terminal Equipment Installer Obligations

6. **Telecommunication and Terminal Equipment Installer Obligations.**—(1) The Certified Telecommunication & Terminal Equipment Installer shall be responsible for following, as and where applicable:—

- a. Wiring should be as per international standards specified at Annex-B.
- b. Wiring should be properly terminated at Network Termination Point.
- c. When a telecom cabling is placed alongside an AC electrical power cable inside a wall space or in the ceiling space, it may have a minimum separation of 50.4mm (2in), or shall be passed through a separate PVC pipe.

- d. When there is a requirement for the telecom cable for voice, data and video to cross the power cable it shall always cross at right angle.
- e. There should be a clear separation of 2 inches between:
 - i. Separation from power conduits.
 - ii. Separation and barriers within raceways; and
 - iii. Separation within outlet boxes or compartments.
- f. The voltage should not be injurious to occupants, it should be safe and secure from normal electrical power.
- g. Should verify that the attenuation and signal losses are minimum.
- h. That the Telecom room (TR) and building entrance facility (BEF) has enough accommodation for cabling and equipment and additional space is available for growth. Passive equipments like patch panels should have 50 per cent free ports.
- i. General environment requirements should be adhered which includes sufficient power requirements, power backup, humidity, ventilation and HVAC etc.
- j. Conformity with the provisions of the Act, Rules, these Regulations and any instructions issued by the Authority.

(2) The Certified Telecommunication & Terminal Equipment Installer shall execute a written agreement with the Premises owner after completion of the installation work to verify satisfactory completion of the installation work in accordance with these Regulations. A copy of the agreement shall be retained by the Certificate holder and the Premises owner.

(3) No Person, other than the holder of a Certificate shall advertise or otherwise claim to be an authorized Certificate holder or qualified to perform or carry out such Installation work.

PART - IV

Application Procedure for grant of Certificate of Telecommunication and Terminal Equipment Installation

7. **Application for grant of Certificate.**—(1) An application for the grant of a Certificate to install telecommunication and terminal equipment at the designated Premises shall be to the Authority in the form and modes prescribed at Annex-A.

(2) An application under sub-regulation (1) shall be accompanied by the information specified in regulation 9.

(3) Application fee shall be Rs.1000/- for 5 years to paid at the time of processing.

8. **Procedure for grant of Certificate.**—(1) On receipt of an application for the grant of a Certificate, the Authority shall examine the application.

(2) The Authority shall consider the application to determine whether or not to grant a Certificate. The Authority shall take into account the following factors:—

- (a) Technical knowledge of applicant, design, laying, maintenance/ installations, operation and testing of all relevant telecommunication and terminal equipment systems;
- (b) Capability to understand and implement technical installation plans, and understanding of corrective and preventative maintenance standards;
- (c) Knowledge of connectors, appropriate cable, jointing material, computers and electronic equipment like processors, chips, hardware/ software and circuit boards;
- (d) Understanding of transmission, operation and control of telecommunications systems;
- (e) Relevant Qualification:
 - (i) Basic diploma/3-year diploma(electrical/electronic /telecom)from recognized government(federal/provincial)institutes; and
 - (ii) all such other certifications approved by the Authority from time to time.
- (f) Posses the following competence as specified in ANNEX-B to these Regulations which may change from time to time in accordance with the recommendations and standards provided by internationally recognized bodies:
 - a. Commercial Building:
 - Telecommunication Pathways and Spaces (e.g. TIA 569B etc.)
 - b. Telecommunication Wiring Standard (e.g. EIA/ TIA 568).
 - c. Telecommunication on-Premises wiring.

- d. Public network OSP cabling.
 - e. Knowledge of the network topologies.
 - f. Aware of the latest wired and wireless access layer technologies, for instance LAN CAT & Fiber optic terminations, WiFi, RFIDs knowledge of the earthing requirements.
 - g. Aware of high voltage telecom equipment safety requirements.
- (g) Any other factor deemed necessary by the Authority.

(3) The Authority upon satisfactory evaluation of an application complete in all respects shall grant the Certificate within twenty (20) working days for carrying out telecommunication and terminal equipment installation at the designated Premises in accordance with these Regulations:

Provided that the Authority may reject an application after recording reasons leading to denial.

(4) If the application is found incomplete the applicant shall be informed within ten (10) working days to remove such deficiencies.

(5) The Authority shall issue a unique Certificate number to each Certified Telecommunication and Terminal Equipment Installer. The number shall indicate the month/year of issuance alongwith other details, as desired by the Authority.

9. **Duration and Renewal.**—The Certificate issued by the Authority shall be valid for a period of five (5) years.

PART-V

Miscellaneous

10. **Public Education & Awareness.**—(1) The Authority shall launch a media campaign through print and electronic media for the education of the general public of all the requirements to be followed for the installation of telecommunication and terminal equipment at the designated Premises in accordance with these Regulations.

(2) The Authority will intimate all Town Municipal Authorities, cantonment(s), authorities etc. about the Telecommunication & Terminal Equipment Installation Regulations through mass media and placement on PTA website and website of the concerned authorities.

Annex-A**PAKISTAN TELECOMMUNICATION AUTHORITY**<http://www.pta.gov.pk>**APPLICATION FORM FOR TELECOMMUNICATION & TERMINAL EQUIPMENT INSTALLER**

1. Applicant Information									
Full Name:								Gender: <input type="radio"/> Male <input type="radio"/> Female	
Father/ Husband's Name:									
Computerized NIC #:							-		
Mailing Address:	Present:								
	Permanent:								
Company Name (optional)									
Contact Person:									
Phone (with City code):					Fax:				
	Cell:			E-mail:					
2. Academic Qualification									
Certificate/Diploma or Degree	Institution/Baord	Session Date		Specialization	Marks/CGPA				
		Starting Date	Ending Date		Total	Obtained	%		
3. Practical Experience									
Organization			Position Held	Period Served		Major Responsibilities			
Company Name	Company Address	Company Contact Nos.		From (dd-mm-yyyy)	To (dd-mm-yyyy)				
I certify that I have not been convicted against any criminal offence in Pakistan or abroad. Furthermore, no facts have been concealed by me and do hereby understand that false or misleading information in this application or any subsequent interview shall disqualify my application.									
Signature:					Date:				
Important Instructions:	i. Please provide itemized response, if familiar with Annex- 'B' ii. Check List: Attested Copies of (a). CNIC, (b) Educational Degree(s), (c) Experience Certificate(s) iii. Extra sheets may be added (if required)								
4. For PTA Use Only									
Application No.					Fee Paid:	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Decision of the Competent Authority:					If pending, Reasons:				
Date of Renewal:									

Annex-B**Telecommunication and Terminal Equipment Installer Requirement Specifications**

The Certificate holder is required to possess the following relevant skill set:

- (a) Should be aware of International standards for:
 - h. Residential telecommunication Infrastructure (*e.g.* EIA/TIA 570B etc.)
 - i. Commercial Building :
 - i. Telecommunication Pathways and Spaces (*e.g.* TIA 569B etc.) and;
 - ii. Telecommunication Wiring Standard (*e.g.* EIA/TIA 568).
 - j. Telecommunication on-premise wiring.
 - k. Public Network OSP Cabling.
- (b) Should have good knowledge of the network topologies.
- (c) Should be aware of the latest wired and wireless access layer technologies, for instance LAN CAT & fiber optic terminations, WiFi, RFIDs.
- (d) Should have a sound knowledge of the earthing requirements.
- (e) Aware of high voltage telecom equipment safety requirements.
- (f) Aware of exposure to hazardous wireless equipment.
- (g) All standards defined by ITU and other organizations etc. from time to time.

[No. 85/Regs/PTA/2010.]

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DD (L & R).