



**PAKISTAN TELECOMMUNICATION AUTHORITY**  
**Headquarters, F-5/1, Islamabad**  
**www.pta.gov.pk**

**APPLICATION FORM FOR FIXED WIRELESS SERVICES**  
**(Point to Point Microwave Links, VSAT, SST, Telemetry and Other Fixed Links)**

PTA Reference: _____	Date: _____
FAB Reference: _____	Date: _____
License No. _____	Date: _____

For  
Official  
Use Only

1. Name of Applicant Organization: \_\_\_\_\_  
 Postal Address: \_\_\_\_\_

Telephone. (with city code): \_\_\_\_\_ Fax No. \_\_\_\_\_ Web Site: \_\_\_\_\_

2. Contact Person: Mr/Ms/Mrs \_\_\_\_\_  
 (First Name) (Last Name)

Designation: \_\_\_\_\_ Department: \_\_\_\_\_

Telephone: (with city Code): \_\_\_\_\_ Mobile No. (if any): \_\_\_\_\_

Fax (with city Code): \_\_\_\_\_ Email: \_\_\_\_\_

3. **Link Data:**

a. Nature of Service:  Public  Government  Limited Public  Private

b. Type of Link  Bi-directional  Unidirectional  Spread Spectrum Technology

Telemetry  CMT Microwave  Other

c. Link Capacity: \_\_\_\_\_ Mbps d. Hop Length: \_\_\_\_\_

e. Working Time: From: \_\_\_\_\_ To: \_\_\_\_\_ f. Type of Transmission: analog/Digital g. Frequency Band:

h. Frequency Spot (Requested): Tx: \_\_\_\_\_ Rx: \_\_\_\_\_ i. Channel Bandwidth: \_\_\_\_\_

ii. Modulation Type: \_\_\_\_\_ k. Total No. of Site: \_\_\_\_\_

l. Designation of Emission: \_\_\_\_\_ m. Duration of License: 3 / 5 / 10 / Other Years

n. Purpose: \_\_\_\_\_

4. **Site # 1 Data**

a. Name of Station \_\_\_\_\_

b. Address of Station \_\_\_\_\_

c. Coord. Longitude: \_\_\_\_\_ Degrees: \_\_\_\_\_ Minutes \_\_\_\_\_ Seconds  
 Latitude: \_\_\_\_\_ Degrees: \_\_\_\_\_ Minutes: \_\_\_\_\_ Seconds

**Note: Provision of Coordinates upto the accuracy of Second is mandatory**

d. Height of site above mean sea level (AMSL): \_\_\_\_\_ Meters

e. Type of Location:  City  Hill  Rural  Within 16 km of Aerodrome

5. **Site # 2 Data:** (separate form for equipment details to be submitted if different equipment at both site is used)

a. Name of Station \_\_\_\_\_

b. Address of Station \_\_\_\_\_

c. Coord. Longitude: \_\_\_\_\_ Degrees: \_\_\_\_\_ Minutes \_\_\_\_\_ Seconds  
 Latitude: \_\_\_\_\_ Degrees: \_\_\_\_\_ Minutes: \_\_\_\_\_ Seconds

**Note: Provision of Coordinates upto the accuracy of Second is mandatory**

d. Height of site above mean sea level (meters): \_\_\_\_\_

e. Type of Location:  City  Hill  Rural  Within 16 km of Aerodrome

6. **Equipment data:**

a. Equipment name: \_\_\_\_\_  
 b. Manufacturer: \_\_\_\_\_  
 c. Frequency range of Equipment: From \_\_\_\_\_ To \_\_\_\_\_

7. **Transmitter:**

a. Transmitter Output Power: Max: \_\_\_\_\_ Working: \_\_\_\_\_  
 b. Total Attenuation (dB): \_\_\_\_\_  
 c. **Attach Spectrum Chart for Transmitter**

8. **Receiver (for BER 10<sup>-6</sup>):**

a. C/I at threshold level (dB): \_\_\_\_\_ b. Receiver threshold level (dBm): \_\_\_\_\_  
 c. Total Attenuation (dB): \_\_\_\_\_  
 c. **Attach Spectrum chart for receiver**

9. **Antenna Data:**

a. Antenna name: \_\_\_\_\_ b. Antenna Type: \_\_\_\_\_  
 c. Manufacturer: \_\_\_\_\_ d. Diameter (m) \_\_\_\_\_  
 e. Antenna frequency range from \_\_\_\_\_ to \_\_\_\_\_  
 f. Antenna Gain \_\_\_\_\_ dBi For Frequency \_\_\_\_\_  
 g. Polarization \_\_\_\_\_  
 h. Antenna height above ground level (m) \_\_\_\_\_  
 i. Half Power Beam Width: \_\_\_\_\_ j. Front to Back Ratio (dB): \_\_\_\_\_  
 k. Losses (dB): Feeder: \_\_\_\_\_ Branch: \_\_\_\_\_ Switch: \_\_\_\_\_

**Antenna Pattern**

**PLEASE ATTACH THE AZIMUTH CO-POLARIZATION & CROSS POLARIZATION CHARTS OF THE ANTENNA (ALSO IN TABULAR FORM).**

10. Supplementary Information (if any): \_\_\_\_\_

11. Nature and date of issuance of PTA license awarded to the applicant: \_\_\_\_\_

**DECLARATION**

I/we hereby, declare that the statement made and particulars given in this application Form are true and correct to the best of my/our knowledge and belief.

I/we also declare and undertake that all facilities to be acquired by me/us pursuant to this application shall be used by me/us only for the purpose for which it is acquired and that the conditions subject to which the facilities is granted shall be complied with.

Signature: \_\_\_\_\_  
 Designation: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Place: \_\_\_\_\_  
 Date: \_\_\_\_\_

**Office Seal**

**Guideline for Preparation of Proposals by the Applicant**

- a. Only licensed Class value added Service, Data Communication Network Service (DCNS) and Non Voice Communication Network Services NVCNS Operators holding valid license issued by the Pakistan Telecommunication Authority can install VSAT and Spread Spectrum Technology (SST) radio links.
- b. Prior to establishment of the VSAT and Spread spectrum Radio link, the Data Operators are required to obtain permission/site clearance from PTA.
- c. The applicant is required to submit proposal comprising of Ten (10) sets whereas each set must contain the following documents:
  - i. Letter of intent
  - ii. Application on Prescribed Form
  - iii. Detailed Technical Literature of the equipment
  - iv. Network Plan/Site Plan
  - v. Site Coordinates duly verified by the Survey of Pakistan or acquired by commercially available GPS
  - vi. Undertaking on the company letterhead in original (bearing company's monogram) that "M/S ----- will not use any secrecy device on the communication system"
- d. The permission to establish and to maintain the specific radio link will be issued by Radio Based Services section of the Pakistan Telecommunication Authority after obtaining clearance from the concerned quarters.
- e. The Spread Spectrum radio links will operate in the deregulated S-band from 2.4735 – 2.4835 GHz and from 5.725-5.850 GHz in C-Band. If any company/person likes to avail these services indoor/residence it will not require permission from the Authority. However, if any company/person want to provide these services on commercial basis to potential users for business, the company/person will be required to get necessary site clearance from the Authority.
  - i. The spread spectrum radio and VSAT links will be point to point or point to multi-point.
  - ii. VSAT and spread spectrum radio links are for data communications only
  - iii. The services shall be permitted to operate on Non Interference Basis. The Pakistan Telecommunication authority reserves the right to cancel the permission in case any interference is caused by operation of the installed radio link.
  - iv. All VSAT and spread spectrum Radio links will be location specific and no shifting is allowed unless approved by the Authority. A formal application as per above procedure will be initiated for all such shifting.