

PAKISTAN TELECOMMUNICATION AUTHORITY

STANDARD OPERATING PROCEDURE (SOP) FOR REGISTRATION OF OUTDOOR POINT TO POINT LINKS TO BE OPERATED ON ISM BAND

LICENSING DIVISION

DATED - 21st SEPTEMBER, 2016

1. INTRODUCTION

1.1 Pakistan Telecommunication Authority (PTA) has allowed establishment/installation of outdoor Point to Point Wireless Link(s) by operators (i.e. Cellular, Local Loop and Data-CVAS License holders) to be operated in compliance with Industrial Scientific and Medical (ISM) band and other requirements mentioned in “**Class Licensing and Registration (Amendment)Regulations, 2016**”. Prior to commencement of services, these outdoor Point to Point Links will be registered with Frequency Allocation Board (FAB) through PTA.

2. PURPOSE & SCOPE OF SOP

2.1 The purpose of this SOP is to streamline the process of registration of outdoor Point to Point Link(s) in compliance with clause 9(9) of “**Class Licensing and Registration(Amendment)Regulations, 2016**”.

3. REGISTRATION OF WIRELESS LINKS

3.1 Any outdoor Point to Point Wireless Link to be operated in ISM band **will be processed as per the following procedure:**

3.1.1. NEW WIRELESS LINKS

- a. An outdoor Point to Point Link will be installed with prior approval of concerned Municipal Authorities and/or owner of the property/building.
- b. **Application Submission.** The application for registration of any outdoor Point to Point Link will be submitted to Licensing Division (*Local Loop (LL) and Class Value Added Services (CVAS) Operators to Wireline Directorate, and Wireless Local Loop (WLL) and Cellular Mobile Operators (CMOs) to Wireless Directorate*), in eight (08) sets, as per details below:

- i. Letter of Intent
 - ii. Form (*both hard as well as soft copy of complete proposal on CD/DVD*) enclosed as **Annex-A.**
 - iii. Detailed Technical literature of the equipment
 - iv. Antenna Pattern (*Azimuth/Elevation Co-Polarization and Cross polarization charts, also in tabular form*)
 - v. Spectrum chart for Transmitter.
 - vi. Network Diagram/Site Plan.
 - vii. Six digits site coordinates duly verified by the Survey of Pakistan.
 - viii. Undertaking on duly notarized stamp paper that:
 - (1) Neither the applicant Company nor their shareholders Directors are defaulter(s) of PTA.
 - (2) No secrecy device will be used on the communication system.
 - ix. Copy of CNIC of the signing Authority
 - x. 2 x sets, of Summary sheet (*one each for PTA and FAB*) enclosed as **Annex-B.** in case operator wants to register sites in bulk. However, single application shall not contain details of more than **25 sites.**
 - xi. Pay Order/Bank Draft/Cheque in the name of Pakistan Telecommunication Authority of **Rs. 1000/-**(Rupees One Thousand only) per site against applied sites as application processing fee.
- c. **Application Scrutiny.** PTA will scrutinize the application keeping in view the following:
- i. Whether the application is complete as per requirements mentioned at Para 3 (b) (ii).
 - ii. The proposed frequencies of operation are in line with ISM band limits defined in clause 9 (3) of “**Class Licensing and Registration (Amendment) Regulations, 2016**”.
 - iii. Whether any dues are pending against the operator? The detail of outstanding dues shall be obtained from Finance, Commercial Affairs, Licensing (RBS) and Services Divisions.
 - iv. Compliance of other regulatory requirements if any.
- d. **Application Processing.** PTA will process the application as follows:
- i. In case of any minor observations/discrepancies, the operator will be requested to rectify the shortcomings within one week time.

- ii. In case of outstanding dues operators will be advised to clear the same for further processing of the case.
- iii. Complete proposal/case (*i.e. after clearance of outstanding dues and technical anomalies if any*) **will be forwarded to FAB for site clearance as per procedure in vogue.**
- e. FAB will analyze and communicate its observation/objection if any directly to the applicant within eight weeks of receipt of application, under intimation to PTA.
- f. **Registration Letter.** In case of no observation/objection **within stipulated time period from Members of the Frequency Allocation Board after proposal circulation, Headquarter FAB will grant approval in the light of relevant decisions of the Meetings of Board.**
- g. **Provisional Operation of Link.**
 - i. In case of any concerns communicated by FAB at a later stage, the operators will have to address the same and send confirmation to FAB under intimation to PTA.

3.1.2. **ALREADY ESTABLISHED LINKS.**

- a. Operators will apply for registration of all those Links established prior to issuance of this SOP as per above procedure at Para 3.1.1 (b) (ii) within three (3) months of the issuance of this SOP.
- b. The already established links will remain operational during this period.
- c. Operators will close / dismantle any of its already established links, if not approved by FAB.

3.2. After expiry of six (6) months, any unregistered Point to Point Link will be considered illegal.

3.3. PTA/FAB will then carry out inspection/survey to find any unregistered Point to Point Link(s) in ISM band and initiate appropriate actions and/or legal proceedings against unregistered Links users.

4. CLOSURE OF LINKS

4.1. PTA may order closure of links either permanently or temporarily for security concerns, on violation of the Rules, Regulations, SOPs, or PTA's directives and/or on the policy directives of the Government of Pakistan.

APPLICATION FORM FOR REGISTRATION OF OUTDOOR POINT TO POINT LINKS

PTA Reference:		Date:		<i>For Official Use Only</i>
FAB Reference:		Date:		
License No:		Date:		

LICENSEE

Name of Applicant Organization				
Postal Address				
Telephone No.		Fax No.		Web Site:

CONTACT DETAILS

Contact Person:Mr/Ms/Miss			
	(First Name)	(Middle Name)	(Last Name)
Designation		Department	
Telephone No.		Mobile No.	
Fax No.		Email:	

LINK DATA

Nature of Service:	Public		Government		Private	
Type of Link:	Bi-directional		Unidirectional		Others	
Link Capacity:	Mbps		Hop Length			
Working Time:	From		To		Transmission Type: (✓)	Analog Digital
Frequency Band:			Frequency Spot:	Tx:	Rx:	
Channel Bandwidth:						
Modulation Type:			Total No. of Sites:			
Designation of Emission:			Duration of License:			
Purpose:						

SITE No. 1 DATA

Name of Station:						
Address of Station:						
Coordinates:	Longitude:		Degrees		Minutes	Seconds
	Latitude:		Degrees		Minutes	Seconds
Note: Provision of Coordinates up to the accuracy of Second is mandatory						
Height of site above mean sea level (AMSL):						Meters
Type of Location:	City		Hill		Rural	Within 16 Km of Aerodrome
Separate Form for equipment details to be submitted if different equipment at both site is used						

SITE No. 2 DATA

Name of Station:						
Address of Station:						
Coordinates:	Longitude:		Degrees		Minutes	Seconds
	Latitude:		Degrees		Minutes	Seconds
Note: Provision of Coordinates up to the accuracy of Seconds is mandatory						
Height of site above mean sea level (AMSL):						Meters
Type of Location:	City		Hill		Rural	Within 16 Km of Aerodrome

EQUIPMENT DATA

Equipment Name:					
Manufacturer:					
Frequency range of equipment:	From		To		

TRANSMITTER

Transmitter Output Power:	Max:		Working:	
Total Attenuation (dB):				
Attach Spectrum Chart for Transmitter				

RECEIVER (for BER 10⁻⁶)

C/I at threshold level (dB):		Receiver threshold level (dBm):	
Total Attenuation (dB):			
Attach Spectrum Chart for Transmitter			

ANTENNA DATA

Antenna Name:		Antenna Type:	
Manufacturer:		Diameter (m):	
Antenna Frequency Range:	From		To
Antenna Gain:		dBi	For Frequency
Polarization:			
Antenna height above mean sea level (AMSL):			
Half Power Beam Width:		Front to Back Ratio (dB):	
Losses (dB):	Feeder :	Branch:	Switch:
ANTENNA PATTERN	Please attach the Azimuth Co-Polarization & Cross Polarization charts of the antenna (Also in Tabular Form)		
Supplementary Information (if any):			
Nature & 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 for the purpose for which it is acquired and that the conditions subject to which the facilities are granted shall be complied with.	
Signature:	_____
Designation:	_____
Name:	_____
Place:	_____
Date:	_____
(Copy of Authorization letter is enclosed)	
Official Seal	

SUMMARY OF OUTDOOR POINT TO POINT LINKS

Link Site with Coordinates	Tower Height AGL/AMSL (M)	Opposite Link Site with Coordinates	Tower Height AGL/AML (M)	Hop Distance (KM)	Frequency & Bandwidth	
					Site No. 1	
					Site No. 2	
					Site No. 1	
					Site No. 2	
					Site No. 1	
					Site No. 2	
					Site No. 1	
					Site No. 2	