### GEN 3.4 COMMUNICATION AND NAVIGATION SERVICES

### 3.4.1. Responsible Service

The responsible service for the provision of telecommunication and navigation facility services in Nepal is the Civil Aviation Authority of Nepal.

Director General

Civil Aviation Authority of Nepal Babar Mahal, Kathmandu Nepal. TEL: 977-1-4262387, 4262532

Fax: 977-1-4262516 AFS: VNKTYAYX

Email: dgca@caanepal.gov.np

The service is provided in accordance with the provisions contained in the following ICAO and CAAN documents:

a) Annex 10 - Aeronautical Telecommunications

b) CAR 10 - Civil Aviation Requirement for Aeronautical Telecommunications

c) Doc 8400 - Procedures for Air Navigation Services - ICAO Abbreviation and Codes (PANS - ABC)

d) Doc 8585 - Designators for Aircraft Operating Agencies, Aeronautical Authorities and Services

e) Doc 7030 - Regional Supplementary procedures

f) Doc 7910 - Location Indicators

#### 3.4.2 Area of Responsibility

Communication services are provided for the entire Kathmandu FIR. Arrangements for such services on continuing basis should be made with the Director General, Civil Aviation Authority of Nepal, who is also responsible for the application of the regulations concerning the design, type and installations of aircraft radio stations. Responsibility for the day-to-day operation of these services is vested in airport managers located at each aerodrome. Enquiries, suggestions or complaints regarding any telecommunication service should be referred to the relevant Airport Manager/General Manager TIA or to DG CAAN, as appropriate.

#### 3.4.3. Types of Service

#### 3.4.3.1. *Radio navigation services*

The following types of radio aids to navigation are available:

- a) LF/MF non-directional beacon (NDB)
- b) VHF omnidirectional radio range (VOR)
- c) Distance measuring equipment (DME)
- d) Instrument Landing System (ILS)

#### 3.4.3.2. *Mobile/Fixed Services*

#### **Mobile Service**

The aeronautical stations maintain a continuous watch on their stated frequencies during the published hours of service unless otherwise notified.

An aircraft should normally communicate with the air-ground control radio station that exercises control in the area in which the aircraft is flying. Aircraft should maintain a continuous watch on the appropriate frequency of the control station and should not abandon watch, except in an emergency, without informing the control radio station.

#### **Fixed Service**

The message to be transmitted over the Aeronautical Fixed Service (AFS) are accepted only if,

- a) they satisfy the requirements of Annex 10, Vol. II Chapter 3,3.3;
- b) they are prepared in the form specified in Annex 10;
- c) the text of an individual message does not exceed 1800 characters in length.

General aircraft operating agency messages (priority KK) are only accepted for transmission to countries that have agreed to accept Class "B" traffic.

#### 3.4.3.3. **Broadcasting Service**

The following broadcast is available for the use of aircraft in flight: -

a) VHF Automatic Terminal Information Service (ATIS) broadcast

STATION	CALL SIGN /	FREQ	HOURS	REMARKS			
	IDENTIFICATION	MHz	UTC				
1	2	3	4	5			
Kathmandu/	Tribhuvan	127.0	24 HRs	Blank Periods on the ATIS broadcast			
Tribhuvan Int'l Airport	Int'l Airport			Pilots are advised that during the process of updating the ATIS information there will be a period of 30 to 60 seconds of silence prior to the commencement of the next cycle of transmission.			
Bhairahawa / Gautam	Gautam Buddha International Airport	128.05	24 Hrs	Alphabetical Reference			
Buddha International Airport	international Airport			All ATIS broadcast will include alphabetical reference for identification in the ATIS message, beginning each day with the alphabet letter 'ALFA', then following up with letter 'BRAVO' at the next broadcast until the last alphabet 'ZULU' is reached after which subsequent broadcast letter 'ALFA'.			
Pokhara / Pokhara International	Pokhara International Airport	127.6	24 Hrs	No blanks period on the ATIS broadcast Broadcast will be updated immediately after the completion of previous cycle of transmission.			
Airport				Alphabetical Reference All ATIS broadcast will include alphabetical reference for identification in the ATIS message, beginning each day with the alphabet letter 'ALFA', then following with letter 'BRAVO' at the next broadcast until the last alphabet 'ZULU' is reached after which subsequent broadcast letter 'ALPHA'.			

### 3.4.3.4. Language used: English

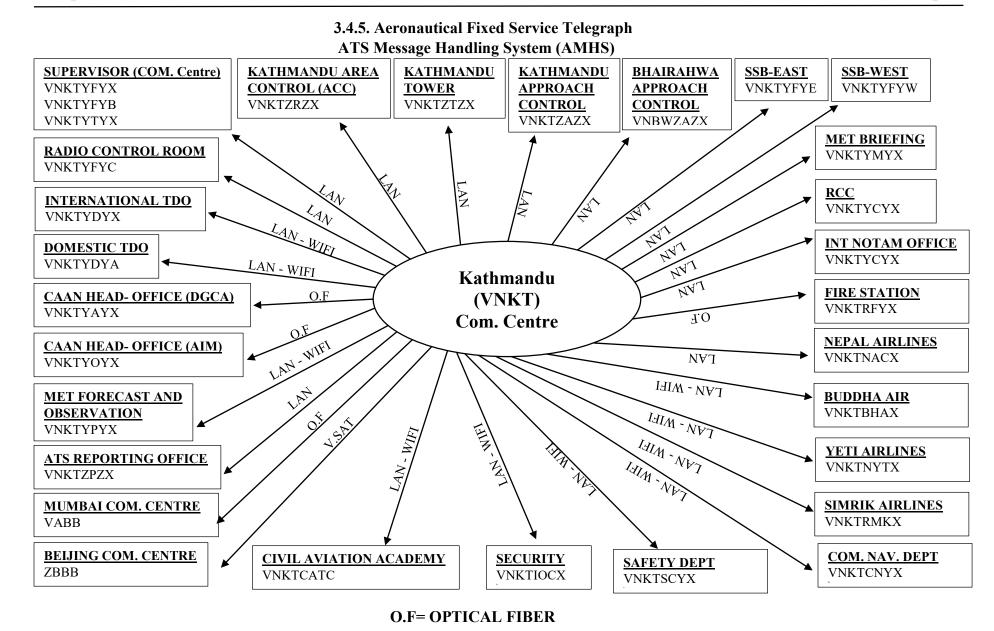
### 3.4.3.5. Where detailed information can be obtained

Details of the various facilities available for the en-route traffic can be found in Part 2, ENR 4.

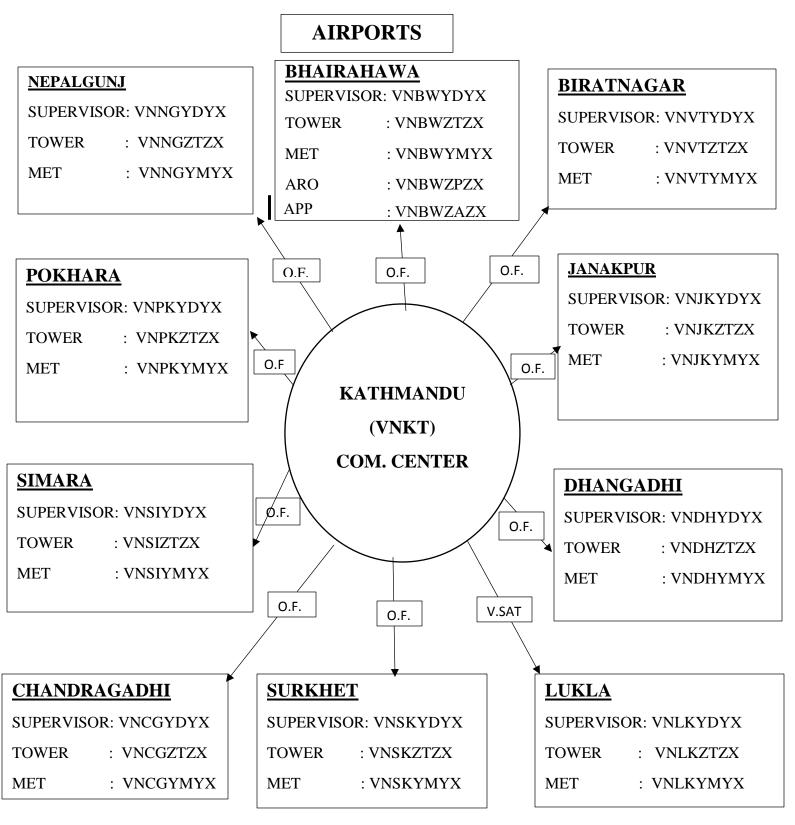
Details of the facilities available at the individual aerodromes can be found in the relevant sections of Part 3 (AD). In case where a facility is serving both the en-route traffic and the aerodromes, details are given in the relevant sections of Part 2 (ENR) and Part 3 (AD)

### 3.4.4 Requirements and Conditions

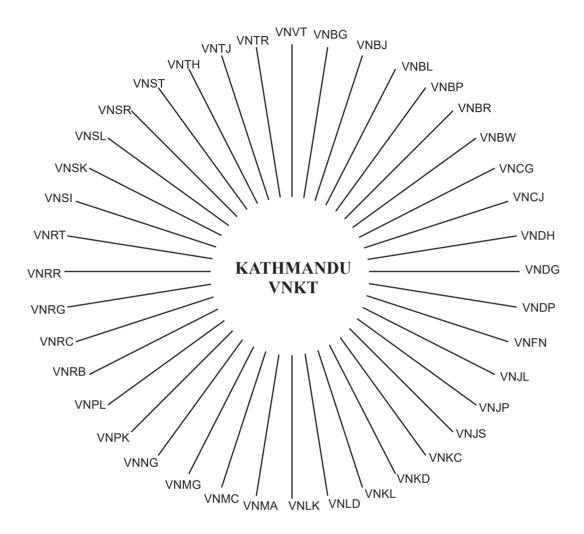
The requirements of the Communication Services and the general conditions under which the communication services are available for international use, as well as the requirements for the carriage of radio equipment, are contained in the Civil Aviation Regulations of Nepal, 2058(2002).



### 3.4.6. Aeronautical Fixed Service ATS Message Handling System (AMHS)



## 3.4.7 Aeronautical Fixed Services: Radio Telephony



# 3.4.8. Aeronautical Fixed Services

AERONAUTIC	AL FIX	ED SER	VICES - INTERNA	ΓΙΟΝΑL AND DOM					
STATION			CORESE	PONDENT	TYPE OF	RAI		JIC.	
LOCA				CHANNEL	FREQUENCIES		AFI	SS .	
	LOCA					TDANG	DEC	TR	REMARKS
NAME	TION INDIC	CALL	NAME	CALL SIGN		TRANS KHZ	REC KHZ	E 0]	REN
	ATOR					KIIZ	KIIZ	TYPE OF TRAFFIC	
1	2	3	4	5	6	7	8	9	10
			BEIJING		V-SAT				
KATHMANDU	VNKT		KOLKATA		LTT			AFS	
			MUMBAI		SAT.COM			AFS	
KATHMANDU	VNKT	KATH	BAJHANG	BAJHANG	RTF/SSB	5858.0	5858.0		•
		RADIO		INFO		3380.5	3380.5		
			BAJURA	BAJURA	RTF/SSB	5858.0	5858.0		
				INFO		3380.5	3380.5		
			BHARATPUR	BHARATPUR	RTF/SSB		5858.0		
				TOWER		3380.5	3380.5		
			BHAIRAHAWA	BHAIRAHAWA	RTF/SSB	5858.0	5858.0		
				TOWER		3380.5	3380.5		
			BHOJPUR	BHOJPUR	RTF/SSB	5805.5	5805.5		
				INFO		3280.25	3280.25		
			BIRATNAGAR	BIRATNAGAR	RTF/SSB	5805.5	5805.5		
				TOWER		3280.25	3280.25		
			CHANDRAGADHI	CHANDRAGADHI	RTF/SSB	5805.5	5805.5		
				TOWER		3280.25	3280.25		
			DHANGADHI	DHANGADHI	RTF/SSB	5858	5858		
				TOWER		3380.5	3380.5		
			DOLPA	DOLPA	RTF/SSB	5858	5858		
				INFO		3380.5	3380.5		
			JANAKPUR	JANAKPUR	RTF/SSB	5805.5	5805.5		
				TOWER		3280.25	3280.25		
			JOMSOM	JOMSOM	RTF/SSB	5858	5858.0		
				INFO		3380.5	3380.5		
			JUMLA	JUMLA		5858	5858.0		
				INFO		3380.5	3380.5		
			KANGEL DANDA	KANGEL	RTF/SSB	5858	5858.0		
				INFO		3380.5	3380.5		
			LAMIDANDA	LAMIDANDA	RTF/SSB	5805.5	5805.5		
				INFO		3280.25	3280.25		
			LUKLA	LUKLA	RTF/SSB	5805.5	5805.5		
				INFO		3280.25	3280.25		
			KHANI DADA	KHANIDADA	RTF/SSB	5858	5858.0		
				INFO		3380.5	3380.5		
			NEPALGUNJ	NEPALGUNJ	RTF/SSB	5858	5858.0		

AERONAUTIC	AL FIX	ED SER	VICES - INTERNA	ATIONAL AND DO	MESTIC CIRC	CUIT			
STATION			CORESPONDENT		TYPE OF CHANNEL	RADIO FREQUENCIES		FFIC	100
NAME	LOCA TION INDIC ATOR	CALL	NAME	CALL SIGN		TRANS KHZ	REC KHZ	TYPE OF TRAFFIC	REMARKS
1	2	3	4	5	6	7	8	9	10
				TOWER		3380.5	3380.5		
KATHMANDU	VNKT	RADIO		PHAPLU INFO POKHARA TOWER RARA INFO RAMFCHHAP	RTF/SSB RTF/SSB RTF/SSB	3280.25 5858.0 3380.5 5805.5 3280.25	5858.0 3380.5 5805.5		
			CHAURIJHARI RUMJATAR	INFO RUKUMKOT INFO RUMJATAR	RTF/SSB	3380.5	3280.25 5858.0 3380.5 5805.5		
			SALLEY	INFO SALLEY INFO	RTF/SSB	3280.25 5858 3380.5	3280.25 5858.0 3380.5		
			SIMARA SIMIKOT	SIMARA TOWER SIMIKOT INFO	RTF/SSB RTF/SSB	3380.5 5858	5858.0 3380.5 5858.0 3380.5		
			SURKHET	SURKHET INFO	RTF/SSB	3380.5	5858.0 3380.5		
			TUMLINGTAR TAPLEJUNG	TUMLINGTAR INFO TAPLEJUNG INFO	RTF/SSB RTF/SSB	3280.25	5858.0		
			MANANG DANG	MANANG INFO DANG	RTF/SSB	5805.5 3280.25	5805.5		
				INFO	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3280.25			