

GEN 3.5 METEOROLOGICAL SERVICES

3.5.1 Responsible Service

The meteorological services for civil aviation authority of Nepal are provided by the associated meteorological watch offices of Department of Hydrology and Meteorology by which meteorological watch is provided within Kathmandu FIR.

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

- Annex 3 - Meteorological Services for International Air Navigation*

- CAR 3 - Civil Aviation Requirement for Meteorological Services for International Air Navigation*

- Doc 7030 - Regional Supplementary Procedures*

- Doc 9673 - Air Navigation Plan-Asia and the Pacific*

3.5.2 Area of Responsibility

Meteorological service is provided within the Kathmandu FIR.

3.5.3 Meteorological Observation and Reports

Table GEN 3.5.3 Meteorological Observations and reports

Name of station/ Location Indicator	Type & frequency of observation / automatic observing equipment	Type of MET reports & supplementary information included	Observation System & Site (S) Auto/Manual Observation System	Hours of Operation	Climatological information
TRIBHUVAN INTL AIRPORT/VNKT	HALF HOURLY	METAR	Ultrasonic wind sensors located at 270m N from RWY 02 and 245m S from 20 also contains air temp., pressure, present weather sensors and ceilometer	24 hours.	Monthly
	AS PER NEED	SPECI TREND			
	SIX HOURLY	TAF			
GAUTAM BUDDHA INTL AIRPORT/ VNBW	HALF HOURLY	METAR	Ultrasonic wind sensors and other sensors located at 385m E from RWY 10 and 420mW from RWY 28	24 hours.	NIL
	AS PER NEED	SPECI TREND			
POKHARA AIRPORT/VNPK	HALF HOURLY	METAR	Ultrasonic wind sensors and other sensors located at 30m NE from RWY 04 and 50mSW from RWY 22	0015 - 1215 UTC	NIL
	AS PER NEED	SPECI TREND			
NEPALGUNJ AIRPORT/VNNG	HALF HOURLY	METAR	Ultrasonic wind sensors and other sensors located at 250m W from RWY 26.	0015 - 1815 UTC	NIL
	AS PER NEED	SPECI TREND			
SIMARA AIRPORT/VNSI	HALF HOURLY	METAR	Ultrasonic wind sensors and other sensors located at 110m S from RWY 19.	0015 - 1815 UTC	NIL
	AS PER NEED	SPECI TREND			
BIRATNAGAR AIRPORT/VNVT	HALF HOURLY	METAR	Ultrasonic wind sensors, air temp., pressure, radiation, present weather, sensors and ceilometer located at 130m from center	0015 - 1815 UTC	NIL
	AS PER NEED	SPECI TREND			
JANAKPUR AIRPORT/VNJP	HALF HOURLY	METAR	Ultrasonic wind sensors and other sensors located at 130m E from RWY 09.	0015 - 1815 UTC	NIL
	AS PER NEED	SPECI TREND			

3.5.4 Types of Services

1 *Observational Data and Forecasts*

Routine and selected special observation reports on current weather, terminal aerodrome and landing forecasts with trend for Tribhuvan International Airport, forecasts for en-route weather condition and special weather warning for Kathmandu valley are issued.

2 *Met Briefing*

Oral briefing for current flight operation and for advance operational planning of international flights as well as for domestic flights is provided in person using displayed weather charts and satellite cloud pictures and other meteorological aids to the pilot-in-command or his representative prior to departure (in the Met. Forecasting Division O/A building, TIA).

3 *Flight Documentation*

Flight documentation consisting of Kathmandu aerodrome forecast and terminal forecasts for destination and alternate aerodromes in abbreviated tabular form together with tabular forecasts of en-route weather are issued.

4 *Relaying of Sigmet*

All Sigmet informations received from terminals outside Nepal are relayed to the out going aircraft in flight by the Met. office through ATS radio Channels.

3.5.5 Notification Required from Operators

Notification from operators in respect of briefing, consultation, flight documentation and other meteorological information needed by them (ref Annex 3, 2.3) is normally required sufficiently in advance for scheduled flights. However, no such notification is required subject to the provision of bi-lateral agreement. For non scheduled flights a prior notification should be made at least 24 hours before.

3.5.6 Aircraft Reports

1. Air reports at major ATS routes and aerodromes shall be made by all aircraft.
2. Special observations shall be made whenever the following weather phenomenon are encountered or observed-
 - a) severe turbulence; or
 - b) severer icing; or
 - c) severe mountain wave; or
 - d) thunderstorm without hail, that are obscured, embedded, widespread or in squall lines; or
 - e) thunderstorm with hail, that are obscured, embedded, widespread or in squall lines; or
 - f) heavy dust storm or heavy sandstorm; or
 - g) volcanic ash cloud; or
 - h) pre-eruption activity or a volcanic eruption

3. ***Reporting of Low Level Wind Shear***

3.1. Pilots encountering wind shear shall report to ATC as soon as possible, when reporting it on radio telephony, the information should be transmitted in the following order

- a) Aircraft Call Sign;
- b) WIND SHEAR Report;
- c) Time (occurrence);
- d) Position (of wind shear);
- e) Intensity (moderate, strong or severe); and
- f) Average Height of Wind Shear Layer.

3.2. On receipt of wind- shear report from a pilot, ATC will pass it to other aircraft in the vicinity. This will also be broadcasted in the ATIS for the next half an hour unless subsequent report indicates that wind shear no longer exists.

3.5.7 VOLMET service

Table GEN 3.5.7 VOLMET service

Name of station	CALL SIGN Identificatio	Frequency	Broadcast Period	Hours of service	Aerodrome/ Heliports included	REP, SIGMET INFO, FCST & Remarks
1	2	3	4	5	6	7
KATHAMDNU			H24			

3.5.8 SIGMET, AIRMET Service

Location Indicators	Hours	FIR of CTA served	Types of SIGMET/ validity	Specific procedures	ATS unit served	Additional information
1	2	3	4	5	6	7
KATHMANDU	24H	Kathmandu FIR	SIGMET/4 HR If Needed	SIGMET VA: VALIDITY 4 HR	KATHMANDU ACC	NIL

3.5.9. Other Automated Meteorological Services

Table 3.5.9 other automated meteorological services

Service Name	Information available	Area, route and aerodrome coverage	Telephone, and Fax number Remarks
1	2	3	4
Meteorological Forecasting Division	METAR TAF	Kathmandu FIR	Telephone: 977-1-4113191 977-1-4486869 AFS: VNKTYPYX Email: mfddhm@gmail.com

Note.– Details of meteorological briefing at aerodromes are given in the individual aerodrome sections, i.e. AD2.