

GEN 3.5 METEOROLOGICAL SERVICES

1. **Responsible Service**

1.1 The Meteorological Services for Civil Aviation is provided by the Bangladesh Meteorological Department, Ministry of Defence.

Postal Address: The Director.

Bangladesh Meteorological Department,
Abhawa Bhaban, Agargaon,
Dhaka-1207, Bangladesh.

Telephone : 880-2-8144968, 880-2-9123838.

Telefax : 880-2-8118230,88-02-9119230,88-02-9103908

AFS : VGHSYMYX

→ Email : info@bmd.gov.bd, swc@bmd.gov.bd

web site : www.bmd.gov.bd

1.2 The Service is provided in accordance with the provisions contained in the following ICAO Documents:

Annex-3 (Meteorological Service for international Air Navigation)

DOC 7030-Regional Supplementary Procedures Part-3-Meteorology.

1.3 Difference to these provisions are detailed in subsection GEN 1.7.

2. **Area of responsibility**

1.1 Area meteorological watch is provided for the Dhaka FIR.

GEN 3.5.3 METEOROLOGICAL OBSERVATION AND REPORTS

Name of Station Location Indicator	Type & freq of observation/ automatic observing equipment.	Types of MET reports & supplementary information included	Observation system & site(s)	Hours of operation	Climatological information.
1	2	3	4	5	6
Dhaka/HSIA VGHS	Half hourly plus special observation	METAR SPECI SUPPL: TREND	Surface wind by Electrical Anemograph/Anemometer. Visibility by eye estimation. RVR by eye estimation. Cloud base by eye estimation (ceilometer). Temperature and dew-point by psychrometer.	H24	CLIMATOLOGICAL SUMMARIES AVBL.
Chittagong/ Shah Amanat Intl. VGEG	Half Hourly plus special observation	METER SPECI SUPPL: TREND	Same as HSIA Intl. Exc transmissometer and ceilometer.	H24	Climatological Summaries AVBL
Cox's Bazar VGCB	Half hourly plus special observation	METER SPECI SUPPL : NIL	Same as VGEG	HJ	NIL
Rajshahi VGRJ	Hourly, Special Observation and if required half-hourly.	METER SPECI SUPPL: NIL	Same as VGEG	HJ	NIL
Jessore VGJR	Half hourly plus special	METER SPECI SUPPL. NIL	Same as VGEG	HJ	NIL
Saidpur VGSD	Hourly, and Special observation	METER SPECI SUPPL: NIL	Same as VGEG	HJ	NIL
Osmani, Sylhet VGSY	Hourly, Special observation and if required half-hourly.	METER SPECI SUPPL: NIL	Same as VGEG	HJ	NIL

4 Types of services

- 1.1 Briefing and flight documentation is provided as indicated in respective Aerodrome Section. Whenever possible, the Pilot-in-Command or his designated representative is given personal briefing by meteorological personnel on office.
- 1.2 Aerodrome reports and forecasts, including trend type forecasts, are provided in GEN 3.5.3 and respective Aerodrome.
- 1.2.1 For short flights (up to 500 NM) all the en-route information is usually presented in tabular non-pictorial form, while for flights of more than 500 NM a pictorial forecast with significant weather is supplied.

- 1.5 Runway visibility observations, taken manually, are provided at Hazrat Shahjalal International Airport, Dhaka and Shah Amanat International Airport, Chittagong and Osmani International Airport, Sylhet when visibility is 926 M or less.
- 1.6 Warning for the protection of parked aircraft is issued for squalls and gales when the mean speed of the surface wind is expected to exceed 40 kts. Warnings are also issued for other hazardous meteorological elements.
- 1.7 **OBSERVING SYSTEMS & OPERATING PROCEDURES.**
- 1.7.1 Surface wind is measured by cup anemometer on top of Control Tower 111 feet above ground at HSIA International Airport, Dhaka. Wind indicator repeaters are located in the Meteorological Office and Control Tower.
- 1.7.2 Cloud height is measured by ceiling balloon or reported by aircraft as applicable.
- 1.7.3 Temperature is measured by psychrometer at the observing station on top of the operational building 90 feet above ground at HSIA International Airport, Dhaka.
- 1.8 Climatological Summaries for Chittagong and Dhaka are available.
- 2 **Notification required from operators**
- 2.1 Notification from operators in respect of briefing flight documentation and other meteorological information needed by them, is normally required:
- (a) for flights up to 500 nautical miles at least three hours before the expected time of departure.
 - (b) for flight of more than 500 nautical miles at least six hours before the expected time of departure.
6. **Aircraft reports (AIREP required from operator)**
- 6.1 Routing aircraft meteorological observations shall be made and the reports transmitted at ATS/MET reporting points listed below and as indicated in subsection ENR 3.1. Arriving flights should with the exceptions detailed in para 6.2 should also record the observation in the AIREP form and handed in to the meteorological office post flight.

Routes		ATS/MET REPORTING POINTS	COORDINATES
A 462	Kolkata/ Dhaka	BEMAK	22 55 39 N 088 53 56 E
G 463	Dhaka/Yangon	AVLED	21 40 03 N 092 20 49 E

- 6.2 Aircraft shall be exempted from making and reporting routine observations when,
- (a) the flight duration is 2 hours or less; or
 - (b) the aircraft is at a distance from the next intended point of landing equivalent to 1 hour flying time or less; or
 - (c) when the altitude of the flight is below 1500 meters (5000 feet); or
 - (d) when the aircraft is flying over specified routes or areas where the network of surface observation is considered by regional Air Navigation agreement to be adequate for the provision of meteorological services for air navigation and at an altitude for which the ground based upper air observations are similarly considered to provide adequate information.

6.3 Reporting of low level wind shear.

6.3.1 Pilots encountering wind shear shall report to ATC as soon as possible.

6.3.2 When reporting wind shear on radiotelephony, the information should be transmitted in following order:

- (a) Aircraft call-sign;
- (b) WIND SHEAR reports;
- (c) Time (of wind shear occurrence);
- (d) Position(of wind shear);
- (e) Intensity (moderate, strong or severe);
- (f) Average height of wind shear layer.

6.3.3 On receipt of wind shear report a pilot, ATC will pass it to other aircraft in the vicinity. The following phraseology will be used.

“WIND SHEAR WARNING
ARRIVING (OR DEPARTING).....(TYPE OF aircraft)
REPORTED.....(MODERATE, STRONG, SEVERE)
WIND SHEAR IN APPROACH (OR DEPARTURE)

RUNWAY(NUMBER) AT(TIME)
HEIGHT OF WIND SHEAR LAYER.....(feet)”

7 VOLMET service

VOLMET Service is not provided

8. SIGMET Service
Table GEN 3.5.8 SIGMET service

Name of MMO/location indicators	Hours	FIR or CTA Served	Type of SIGMET validity	Specific procedures	ATS units served	Additional information
1	2	3	4	5	6	7
Hazrat Shahjalal intl Airport VGHSYMYX	H24	Dhaka FIR	4 HR	Nil	Dhaka ACC	Nil

9. Other automated meteorological service

Nil

INTENTIONALLY LEFT BLANK