

AD 2.1 AERODROMES
VQGP AD 2.1 AERODROME LOCATION INDICATOR AND NAME
VQGP – Sarpang, Gelephu/Domestic

VQGP AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	<i>ARP co-ordinates and site at AD</i>	265304.46N 0902750.98E Centre of RWY
2	<i>Direction and distance from(city)</i>	2 Km NW from Gelephu town
3	<i>Elevation/Reference temperature</i>	300.9M (987.204 ft) MSL/ 29°C
4	<i>MAG VAR/Annual changes</i>	0.18° West 2010
5	<i>AD Administration, address, telephone, telefax, telex. AFS</i>	Department of Air Transport, Gelephu Airport: Sarpang. Bhutan. Tel No. (975)-6- 535152/53135 Email: sphuntsho@doat.gov.bt AFTN: VQGPZTZX
6	<i>Type of traffic permitted (IFR/VFR)</i>	Only VFR is permitted
7	<i>Remarks</i>	AD PPR

VQGP AD 2.3 OPERATIONAL HOURS

1	<i>AD Administration</i>	Available MON - FRI 0300 – 1100 (UTC)
2	<i>Customs and immigration</i>	Available during sked operations
3	<i>Health and sanitation</i>	Available during sked operation & as and when required
4	<i>AIS Briefing Office</i>	Not Available
5	<i>ATS Reporting Office</i>	Not Available
6	<i>MET Briefing Office</i>	Available during operations and MON - FRI 0300 – 1100 (UTC)
7	<i>ATS</i>	During Operational Hrs
8	<i>Fuelling</i>	Available
9	<i>Handling</i>	Available during sked operations
10	<i>Security</i>	As and when required
11	<i>De-icing</i>	Not available
12	<i>Remarks</i>	Out side those hours, service available O/R. Request to be submitted to the AD 24hrs before intended operation.

VQGP AD 2.4 HANDLING SERVICES AND FACILITIES

1	<i>Cargo-handling facilities</i>	Not available
2	<i>Fuel/oil types</i>	Aviation Turbine Fuel only – Jet A1
3	<i>Fuelling facilities/capacity</i>	9000 litres
4	<i>De-icing facilities</i>	Not required
5	<i>Hanger space for visiting aircraft</i>	Not Available
6	<i>Repair facilities for visiting A/C</i>	Not Available
7	<i>Remarks</i>	NIL

VQGP AD 2.5 PASSENGER FACILITIES

1	<i>Hotels</i>	Town
2	<i>Restaurants</i>	in city
3	<i>Transportation</i>	On request
4	<i>Medical facilities</i>	First aid at Referral Hospital Unit, 2 Km from Airport
5	<i>Bank and Post Office</i>	Bank & Post office in Town
6	<i>Tourist Office</i>	Not Available
7	<i>Remarks</i>	Nil

VQGP AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	<i>AD category for fire fighting</i>	Within AD HR: CAT 4
2	<i>Rescue equipment</i>	Rescue Tools with CFT
3	<i>Capability for removal of disabled aircraft</i>	Not Available
4	<i>Remarks</i>	NIL

VQGP AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	<i>Type of clearing equipment</i>	Manually Sweeping
2	<i>Clearance priorities</i>	1. RWY 11/29
3	<i>Remarks</i>	N/A

VQGP AD 2.8 APRON, TAXIWAYS AND CHECK LOCATION DATA

1	<i>Apron surface and strength</i>	Not Available
2	<i>Taxiway width, surface and strength</i>	Not Available
3	<i>ACL location and elevation</i>	Not Available
4	<i>VOR checkpoints</i>	NOT ESTABLISHED
5	<i>INS check points</i>	-
6	<i>Remarks</i>	NIL

VQGP AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	<i>Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands</i>	Not Available
2	<i>RWY and TWY markings and LGT</i>	Markings Available
3	<i>Stop bars</i>	Not Available
4	<i>Remarks</i>	NIL.

VQGP AD 2.10 AERODROME OBSTACLES

RWY/Area affected	<i>In approach/TKOF areas</i>			<i>In Circling area ad at AD</i>			<i>Remarks</i>		
	<i>Obstacle type</i>	<i>Elevation</i>	<i>Coordinates</i>	<i>Obstacle type</i>	<i>Elevation</i>	<i>Coordinates</i>			
	<i>Markings/LGT</i>		<i>Coordinates</i>	<i>Markings/LGT</i>		<i>Coordinates</i>			
a			b			c			
See AD2.2 –VQGP-1			TO BE DEVELOPED						

VQGP AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	<i>Associated MET Office</i>	Gelephu Airport
2	<i>Hours of service</i> <i>MET Office outside hours</i>	During Flight operations only
3	<i>Office responsible for TAF preparation</i> <i>Periods validity</i>	TO BE DEVELOPED
4	<i>Type of landing forecast</i> <i>Interval of issuance</i>	Current Weather half hourly during flight operations (in Plain Language)
5	<i>Briefing/consultation provided</i>	Personal consultation During flight operation(on demand)
6	<i>Flight documentation</i> <i>Language (s) used</i>	TO BE DEVELOPED, English
7	<i>Charts and other information available for briefing or consultation</i>	TO BE DEVELOPED
8	<i>Supplementary equipment available for providing information</i>	NIL
9	<i>ATS unit provided with information</i>	Control Tower
10	<i>Additional information (limitation of service, etc.)</i>	Presently limited to providing METAR and local current valley WX in plain language only during flight operations.

VQGP AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE & MA BRG	Dimensions of RWY (M)	Strength (PCN) and surface of RWY and SWY	THR coordinates	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
11	118°	1 506 X 30 M	(10-12) F/C/Y/T	265315.93N 0902727.04E 265252.99N 0902814.90E	300.944 M AMSL
29	297°				2 66.434 M AMSL
Slope of RWY-SWY	SWY Dimensions (M)	CWY Dimensions (M)	Strip Dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
-2.29% +2.29%	NIL	NIL	1506 M X 40 M	NIL	

VQGP AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
11	1 506	1 506	1 506	1 506	
29	1 506	1 506	1 506	1 506	

VQGP AD 2.14 APPROACH RUNWAY LIGHTNING

RWY Designator	APCH LGT Type LEN INTST	THR LGT Colour WBAR	VASIS (MEHT) PAPI	TDZ, LGT LEN	RWY Centre Line LGT Length, spacing, Colour, INTST	RWY edge LGT LEN, spacing colour INTST	RWY END LGT colour INTST	RWY END LGT Colour WBAR	Remarks
NIL									

VQGP AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	<i>ABN/IBN location, characteristics and hours of operation</i>	Not established
2	<i>LDI location and LGT Anemometer location and LGT</i>	Anemometer: TDZ 11/29
3	<i>TWY edge and centre line lighting</i>	NIL
4	<i>Secondary power supply/switch-over time</i>	NIL
5	<i>Remarks</i>	NIL

VQGP AD 2.16 HELICOPTER LANDING AREA

1	<i>Coordinates TLOF of THR of FATO</i>	TO BE DEVELOPED
2	<i>TLOF and/or FATO elevation M/FT</i>	TO BE DEVELOPED
3	<i>TLOF and FATO are dimensions, surface, strength, marking</i>	TO BE DEVELOPED
4	<i>True and MAG BRG of FATO</i>	TO BE DEVELOPED
5	<i>Declared distance available</i>	TO BE DEVELOPED
6	<i>APP and FATO lightning</i>	TO BE DEVELOPED
7	<i>Remarks</i>	

VQGP AD 2.17 ATS AIRSPACE

1	<i>Designation and lateral limits</i>	NOT ESTABLISHED
2	<i>Vertical limits</i>	NOT ESTABLISHED
3	<i>Airspace classification</i>	NOT ESTABLISHED
4	<i>ATS unit call signLanguage(s)</i>	GELEPHU Tower English
5	<i>Transition altitude</i>	
6	<i>Remarks</i>	Two ways communication

VQGP AD 2.18 ATS COMMUNICATION FACILITIES

Service Designation	Callsign	Frequency	Hours of operation	Remarks
TWR	Gelephu Tower	122.950 Mhz 121.5 EMER. Freq.	HO	As per sked flight operations
RADIO	Gelephu	8921 KHz 13342 KHz	HO	-do-

VQGP AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, CAT of ILS/MLS (for VOR/ILS/MLS, give VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
NOT AVAILABLE						

1. Airport regulations

- 1.1 At Gelephu Airport a number of local regulations apply, in accordance with ICAO Annex 2,11,14 Doc. 4444. See GEN 1.2.
- 1.2 Marshaller assistance can be requested.
- 1.3 When a local regulation is of importance for the safe operation of aircraft on the apron, the information will be given to each aircraft by the TWR on VHF R/T.

2. Taxiing to and from stands.

TO BE DEVELOPED

3. Parking for small aircraft (General aviation)

TO BE DEVELOPED

4. Parking area for helicopters

No designated parking area for helicopter is available at the Gelephu airport, it will be guided on R/T from TWR .

5. Apron Taxiing during winter conditions

Apron not available

6. Taxiing Limitations

Taxiway not available

7. School and Training Technical test flight – use of runways

Subject to permission from DoAT & tower

8 Helicopter traffic

- 8.1 Request prior approval and inform to Airport Office during the hours of service and, if possible, not later than 24 hrs before the flight is to be carried out.
- 8.2 Any request for approval of traffic shall contain the following information:
 - a) Owner/Operator
 - b) Type of helicopter, registration/call sign
 - c) Date, arrival time/departure time, destination(s)

- d) Purpose of operation.

8.3 Furthermore, other details relevant to the evaluation of the request shall be given as required.

9. Removal of disable aircraft from runways

9.1 When an aircraft is wrecked on a runway, it is the duty of the owner or user of such aircraft to have it removed from the runway as quickly as possible. If a wrecked aircraft is not removed from the runway as quickly as possible by the owner or user, the aircraft will be removed by the DoAT at owner's or user's expense.

VQGP AD 2.21 NOISE ABATEMENT PROCEDURES

TO BE DEVELOPED

VQGP AD 2.22 FLIGHT PROCEDURES

- 1 **General**
Flight within Gelephu air traffic circuit shall be in accordance with the Visual Meteorological Conditions (VMC).
 - a) Prior operating into Gelephu airport the pilot in- command should be briefed and visit the aerodrome as an observer.
 - b) relevant clearances from Airport authority and other relevant clearances from the respective authority must be obtained .
 - c) Specific date & time of arrival/ departure should be clearly mentioned while obtaining such clearances.
 - d) Flight plan can be filed during operational hours or during office hours (03:00 – 10:00 UTC) at the following address.

2 **Radar Procedures**

No Radar facilities are available at Gelephu Aerodrome.

3 **Communication failure**

In the event of a communication failure, the pilot shall act in accordance with the communication failure procedures in ICAO Annex 10 Vol. II and Annex 2 general rules para 3.6.52

4 **Procedures for IFR flights with in Gelephu air traffic circuit**

Due to high terrain and steep mountains adjacent to the aerodrome, only flight in VMC is permitted.

5 **Procedures for flights to/from Gelephu AD**

5.1 ATC clearance for flights will be given under the conditions described below:

- a) A flight plan containing items 7 to 18 and indicating the purpose of the flight, shall be submitted to Gelephu ATC.
- b) Position reports shall be submitted in accordance with 3.6.3 of ICAO Annex 2.
- c) Deviation from the ATC clearance may only be made when prior permission has been obtained.
- d) Two-ways radio communication shall be maintained on the frequency ~~133.65~~ ^{122.950} MHz.

5.2 Gelephu weather will available on HF Radio on freq. **8921Khz** and **13342Khz**, call sign Gelephu or can be requested on VQGPZTZX or Land line 9756535152/53135

5.4 Arrival Instruction

5.4.1 Flight plan should be filed on AFTN prior one hour departure followed by status of flight, in the event of any delay or cancellation of flight likely to occur.

5.4.2 **Airborne call is must** as soon as the aircraft departs from the departure aerodrome with the **ATD and ETA over Gelephu. Airborne time & ETA should be informed to Gelephu radio on HF.**

5.4.3 No visual guidance like VASI. PAPI. ILS, Runway lights e.t.c., available on final.

5.4.4 Helicopters operating as a domestic flight/mountain flight within Bhutan territory shall contact Gelephu tower on fixed line/mobile for Gelephu weather and the departure information (ETA/ETD). This shall be applied only to those helicopter not equipped with **HF radio facilities** on board

5.5 Departure Instruction

5.5.1 **No SIDS** (Standard Instrument Departure) is established for Gelephu airport. Therefore, all aircraft shall strictly follow in visual meteorological conditions (VMC).

5.5.2 Aircraft shall make right turn after departure from RWY29 or make left turn after departure from RWY11 and shall remain within Bhutan airspace at all time.

5.5.3 After departure climb initially 18 000ft on QNH maintaining visual to terrain/obstacle and report over designated compulsory reporting points.

5.5.4 departing aircraft may be contact with the destination aerodrome for their position report after establishing contact, aircraft shall report back to Gelephu tower with their assigned level and position.

5.5.5 Prior permission is required if aircraft is likely to deviate to Indian airspace due to bad weather or unfavourable circumstances.

6 RESTRICTION-

- a) Only Day operations in visual meteorological conditions (VMC) is permitted
- b) No night landing/bad weather facilities
- c) Altitudes to be maintained as per ICAO Annex 2- Rules of the Air.
- d) Avoid flying over yellow rooftop i.e., (*dzongs, monastery, temples*)
- e) Flight shall be permitted ***to take-off and land between sunrise and sunset for all types of flight operations.***

VQGP AD 2.23 ADDITIONAL INFORMATION

1. Bird concentrations in the vicinity of the airport

As far as practicable, Aerodrome Control will inform pilots of the bird activity and the estimated heights AGL, when situation warrants.

VQGP AD 2.24 CHARTS RELATED TO AN AERODROME

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Aerodrome chart.....	AD 2.2-VQGP-1
Aerodrome Obstacle Chart - ICAO Type- A runway 11/29.....	AD 2.3-VQGP-1

AERODROME CHART - ICAO

AERODROME ELEVATION 300.9 m.

ARP 26° 53' 04.46" N
90° 27' 50.98" E

TWR 122.65 Mhz

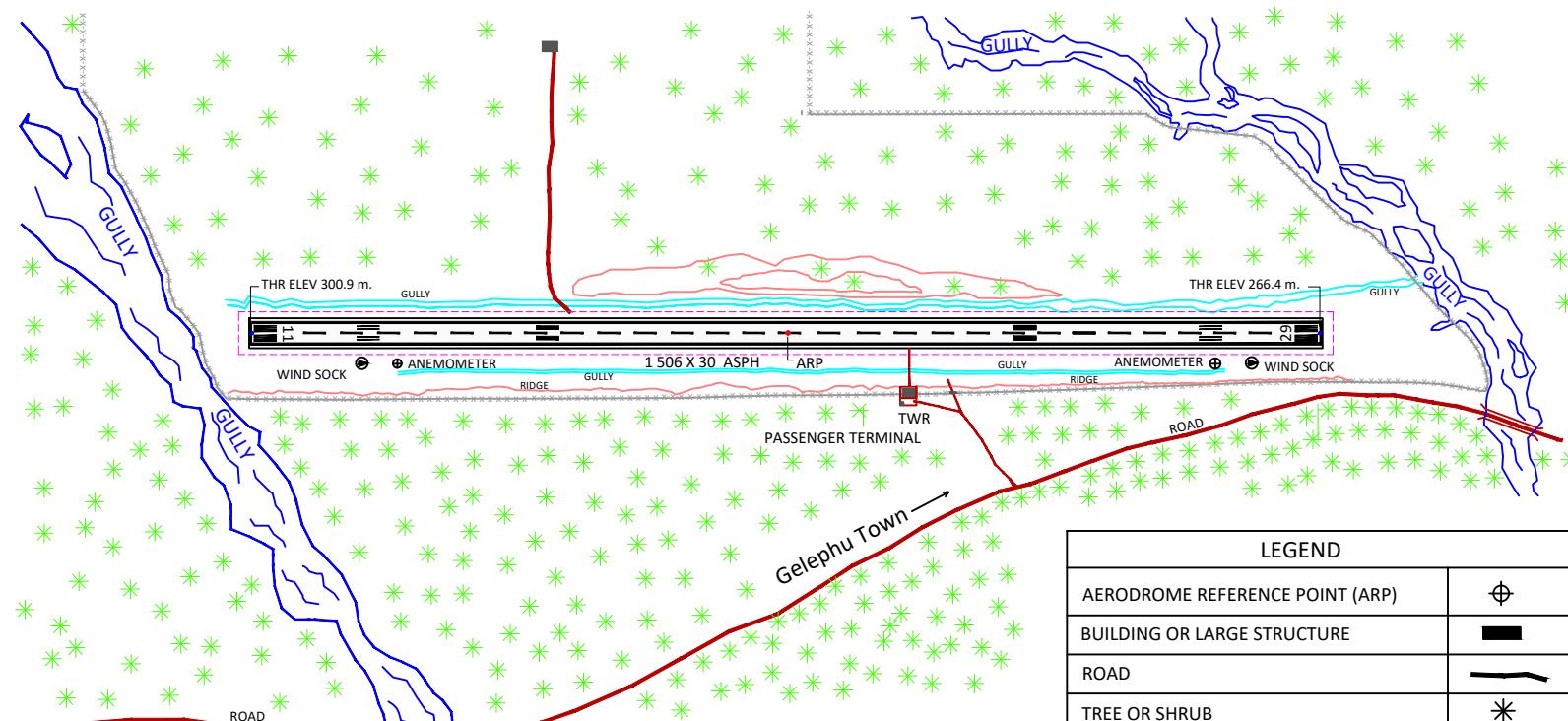
BHUTAN / Gelephu Airport

DIMENSIONS AND ELEVATION IN METRES ABOVE MEAN SEA LEVEL
BEARING ARE MAGNETIC



MAG VAR 0.04° W (2015)
ANNUAL CHANGE 0.03° E

RWY	DIRECTION	THR	BEARING STRENGTH
11	118.12°	26° 53' 15.93" N 90° 27' 27.04" E	PCN 10-12/F/C/X/T
29	298.13°	26° 52' 52.99" N 90° 28' 14.91" E	
APRON			Not Available



LEGEND	
AERODROME REFERENCE POINT (ARP)	⊕
BUILDING OR LARGE STRUCTURE	■
ROAD	—
TREE OR SHRUB	*
RIVER, GULLY	~~~~~
TERRAIN CONTOUR	~~~~~
FENCE	--X--X--

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AERODROME OBSTACLE CHART - ICAO
TYPE A (OPERATING LIMITATIONS)

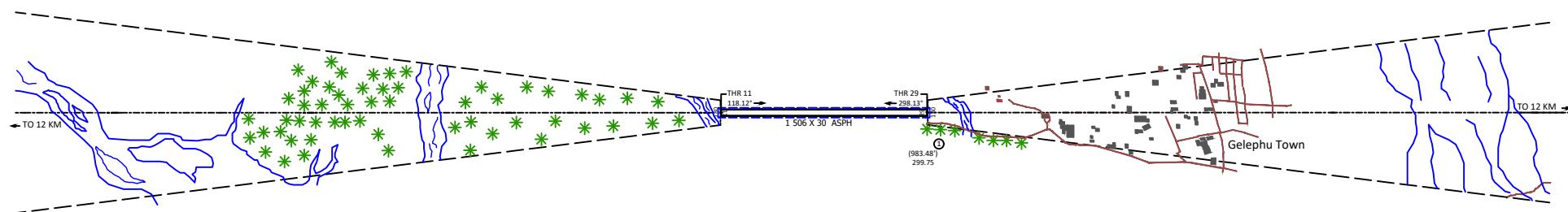
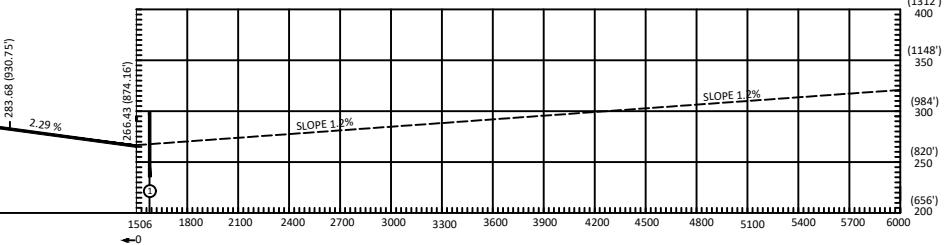
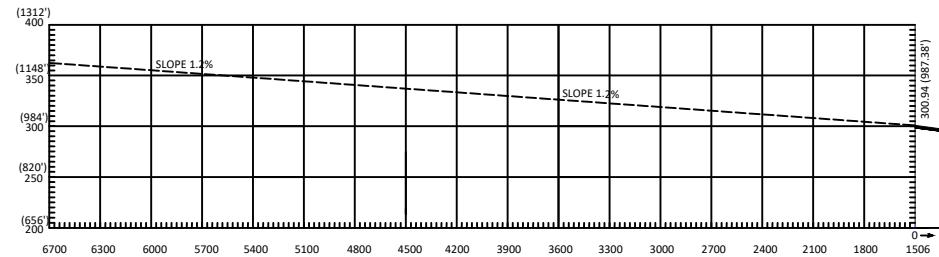
GELEPHU / Gelephu Airport

DIMENSIONS AND ELEVATIONS IN METRES ABOVE MEAN SEA LEVEL

MAGNETIC VARIATION 0.04° W (2015)
ANNUAL RATE OF CHANGE 0.03° E

DECLARED DISTANCES	
RWY 11	RWY 29
1506 TAKE-OFF RUN AVAILABLE	1506
1506 TAKE-OFF DISTANCE AVAILABLE	1506
1506 ACCELERATE STOP DISTANCE AVAILABLE	1506
1506 LANDING DISTANCE AVAILABLE	1506

FEET METRES
400 125
350 100
300 75
250 50
200 25
150 25
100 0
50 0
0 0
VERTICAL SCALE 1 : 5 000



LEGEND	
IDENTIFICATION NUMBER	①
LARGE STRUCTURE	■
POLE, TOWER, SPIRE, ANTENNA, ETC	●
TREE OR SHRUB	*
ROAD	—
RIVER, GULLY	~~~~

HORIZONTAL SCALE 1 : 30 000
300 150 0 300 600 900 1200 1500 1800 2100 2400 2700 3000 METRES
1000 500 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

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