

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

**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,<br>Gelephu International Airport: Sarpang, Bhutan.<br>Tel No. (975)-6- 535152/53135<br>Email: <a href="mailto:sphuntsho@doat.gov.bt">sphuntsho@doat.gov.bt</a><br>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 | Type of clearing equipment | Manually Sweeping |
| 2 | Clearance priorities       | 1. RWY 11/29      |
| 3 | Remarks                    | N/A               |

**VQGP AD 2.8 APRON, TAXIWAYS AND CHECK LOCATION DATA**

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

**VQGP AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS**

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

**VQGP AD 2.10 AERODROME OBSTACLES**

| <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>RWY/Area affected</i>      | <i>Markings/LGT</i> | <i>Coordinates</i> | <i>Markings/LGT</i>              | <i>Coordinates</i> |                |
| a                             | b                   | c                  | a                                | b                  |                |
| <b>See AD2.2 –VQGP-1</b>      |                     |                    | <b>TO BE DEVELOPED</b>           |                    |                |

**VQGP AD 2.11 METEOROLOGICAL INFORMATION PROVIDED**

|    |   |   |
|----|---|---|
| 1  | Associated MET Office   | Gelephu Airport   |
| 2  | Hours of service<br>MET Office outside hours                        | During Flight operations only   |
| 3  | Office responsible for TAF preparation<br>Periods validity          | TO BE DEVELOPED   |
| 4  | Type of landing forecast<br>Interval of issuance                    | Current Weather half hourly during flight operations (in Plain Language)  |
| 5  | Briefing/consultation provided                                      | Personal consultation During flight operation(on demand)  |
| 6  | Flight documentation<br>Language (s) used                           | TO BE DEVELOPED, English  |
| 7  | Charts and other information available for briefing or consultation | TO BE DEVELOPED   |
| 8  | Supplementary equipment available for providing information         | NIL   |
| 9  | ATS unit provided with information                                  | Control Tower   |
| 10 | Additional information (limitation of service, etc.)                | 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<br>RWY<br>NR | TRUE &<br>MA BRG         | Dimensions of<br>RWY (M) | Strength (PCN) and<br>surface of RWY and<br>SWY | THR coordinates | THR elevation and<br>highest elevation of<br>TDZ of precision<br>APP RWY |
|---------------------------|--------------------------|--------------------------|---|-----------------|--|
| 1                         | 2                        | 3                        | 4   | 5               | 6  |
| 11                        | 118°                     | 1 506 X 30 M             | (10-12) F/C/Y/T                                 | 265315.93N      | 300.944 M AMSL   |
| 29                        | 297°                     |                          |   | 0902727.04E     | 2 66.434 M AMSL  |
|                           |                          |                          |   | 265252.99N      |  |
|                           |                          |                          |   | 0902814.90E     |  |
| Slope of<br>RWY-SWY       | SWY<br>Dimensions<br>(M) | CWY<br>Dimensions<br>(M) | Strip<br>Dimensions<br>(M)                      | OFZ             | Remarks  |
| 7                         | 8                        | 9                        | 10  | 11              | 12   |
| -2.29%<br>+2.29%          | NIL                      | NIL                      | 1506 M X 40 M                                   | NIL             |  |

**VQGP AD 2.13 DECLARED DISTANCES**

| RWY Designator | TORA<br>(M) | TODA<br>(M) | ASDA<br>(M) | LDA<br>(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 LIGHTING**

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

**VQGP AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY**

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

**VQGP AD 2.16 HELICOPTER LANDING AREA**

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

**VQGP AD 2.17 ATS AIRSPACE**

|   |                                |                        |
|---|--------------------------------|------------------------|
| 1 | Designation and lateral limits | NOT ESTABLISHED        |
| 2 | Vertical limits                | NOT ESTABLISHED        |
| 3 | Airspace classification        | NOT ESTABLISHED        |
| 4 | ATS unit call sign Language(s) | GELEPHU Tower English  |
| 5 | Transition altitude            |                        |
| 6 | Remarks                        | Two ways communication |

**VQGP AD 2.18 ATS COMMUNICATION FACILITIES**

| Service Designation | Callsign      | Frequency                        | Hours of operation | Remarks                       |
|---------------------|---------------|----------------------------------|--------------------|-------------------------------|
| TWR                 | Gelephu Tower | 122.950 Mhz<br>121.5 EMER. Freq. | HO                 | As per sked flight operations |
| RADIO               | Gelephu       | 8921 Khz<br>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 ~~122.65~~ <sup>122.950</sup> 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

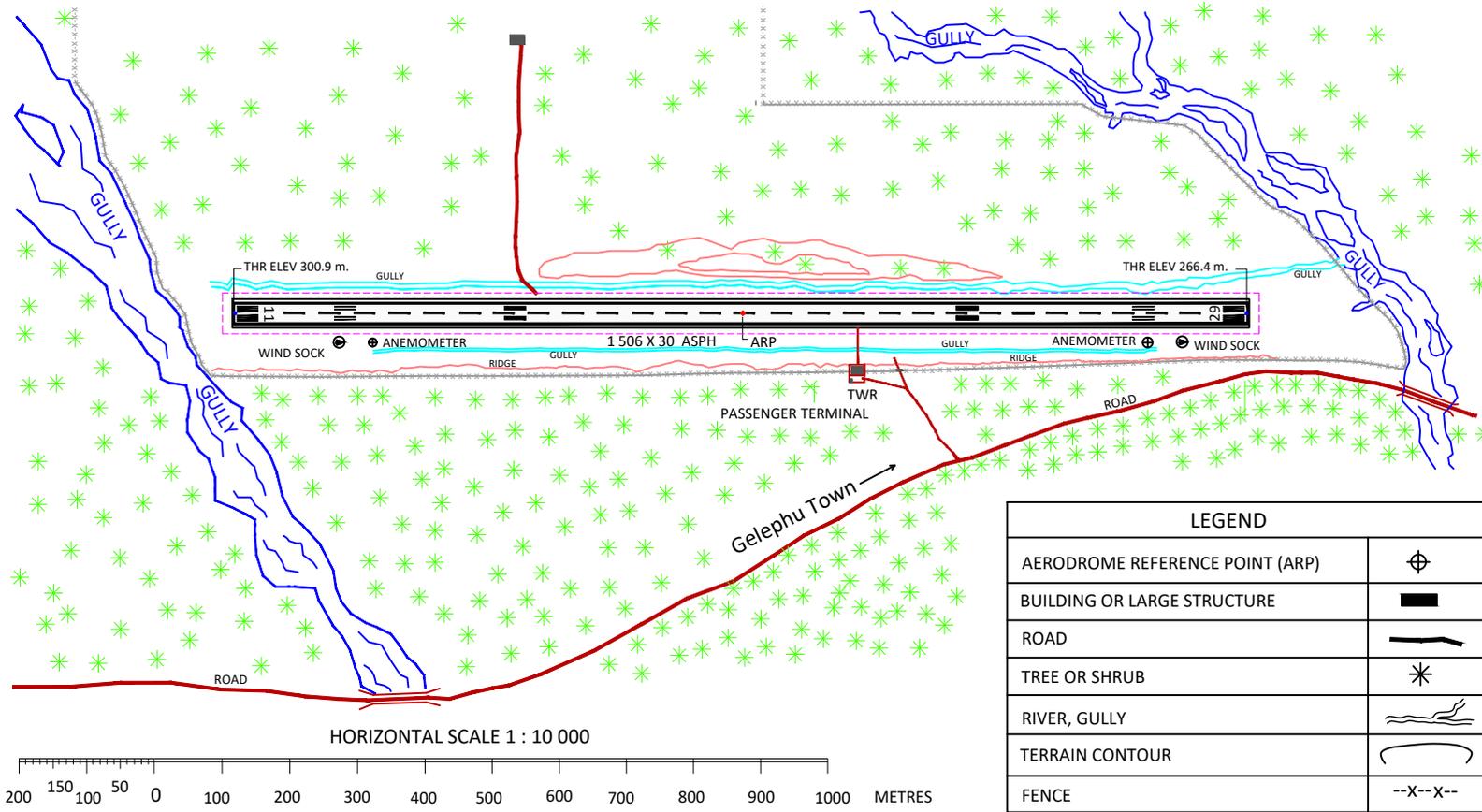
TWR 122.65 Mhz

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<br>90° 27' 27.04" E | PCN 10-12/F/C/X/T |
| 29    | 298.13°   | 26° 52' 52.99" N<br>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-- |

INTENTIONALLY LEFT BLANK

**AERODROME OBSTACLE CHART - ICAO**  
TYPE A (OPERATING LIMITATIONS)

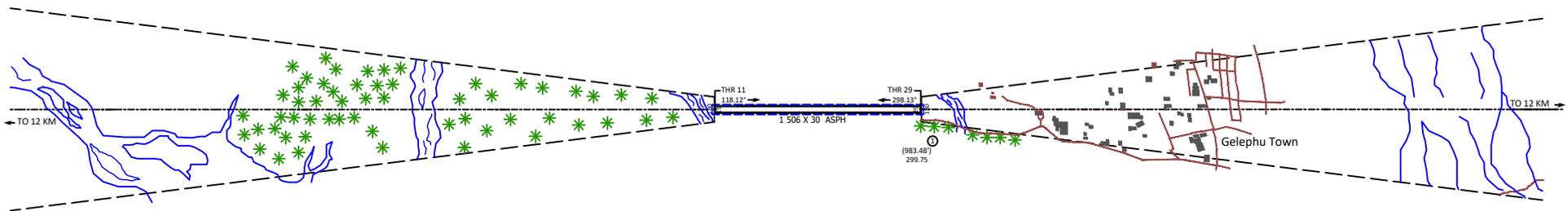
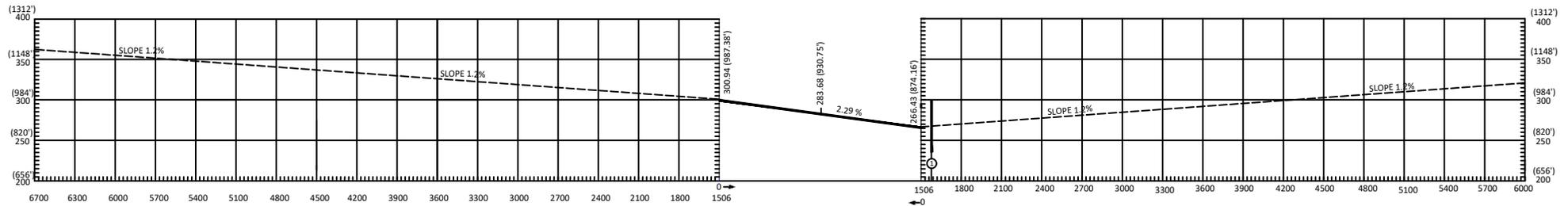
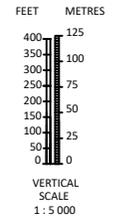
GELEPHU / Gelephu Airport

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   |  |



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

