

## AD 2. AERODROME

### VNVT AD 2.1 AERODROME LOCATION INDICATOR AND NAME VNVT – BIRATNAGAR / Domestic

### VNVT AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

|    |   |   |
|----|---|---|
| 1. | ARP Coordinates and site at AD                              | 262903N 0871552E*   |
| 2. | Direction and Distance from (city)                          | 5. Km, North West of Biratnagar City  |
| 3. | Elevation/Reference Temperature                             | 73.8m. (242.1ft.), 40°C (June)  |
| 4. | MAG VAR/Annual Change                                       | 0 ° W   |
| 5. | AD Administration, address<br>Telephone, Telefax, Telex AFS | Civil Aviation Authority of Nepal<br>Biratnagar Civil Aviation Office, Biratnagar, Morang.<br>Tel: Tower- 021-465641, Airport chief 021-465566,<br>Admin Section:021-465060<br>Email: - biratnagar_ cao@caanepal.gov.np<br>AFS - VNVTYDYX, VNVTZTZX |
| 6. | Types of traffic permitted (IFR/VFR)                        | IFR / VFR   |
| 7. | Remarks   | -   |

### VNVT AD 2.3 OPERATIONAL HOURS

|     |                            |   |
|-----|----------------------------|---|
| 1.  | AD Administration          | SUN-THU 10:00 -17:00 LT (SUMMER),<br>10:00-1600 LT (WINTER),<br>FRI 10:00-1500 LT   |
| 2.  | Customs and immigration    | NIL   |
| 3.  | Health and sanitation      | NIL   |
| 4.  | AIS Briefing Office        | NIL   |
| 5.  | ATS Reporting Office (ARO) | NIL   |
| 6.  | MET Briefing               | Half Hourly METAR provided during ATS Operation Hours   |
| 7.  | ATS                        | <ul style="list-style-type: none"><li>· 1) From 16 Feb - 15 Nov (0015 - 1815) UTC</li><li>· 2) From 16 Nov - 15 Feb (0045 - 1815) UTC</li></ul> |
| 8.  | Fuelling                   | Jet A1 during Operation Hours   |
| 9.  | Handling (Cargo)           | NIL   |
| 10. | Security                   | H-24  |
| 11. | Remarks                    | Any change will be notified by NOTAM  |

\* WGS -84 Coordinates

#### **VNVT AD 2.4 HANDLING SERVICES AND FACILITIES**

|    |   |   |
|----|---|---|
| 1. | Cargo-handling facilities               | Available with local airlines operator  |
| 2. | Fuel/Oil Types                          | JET A-1 / Not available   |
| 3. | Fuelling facilities/capacity            | <b>Storage Capacity (KL):</b><br>Physical -210, Mobile-22<br><b>Storage Type:</b><br>UG Tank (70×3)<br><b>Refueller Details:</b><br>AR15(11KL), AR33 (11KL) |
| 4. | De-icing facilities                     | NIL   |
| 5. | Hangar space for visiting aircraft      | NIL   |
| 6. | Repair facilities for visiting aircraft | NIL   |
| 7. | Remarks                                 | -   |

#### **VNVT AD 2.5 PASSENGER FACILITIES**

|    |                      |  |
|----|----------------------|--|
| 1. | Hotels               | Near by Airport and in the city        |
| 2. | Restaurants          | Near by Airport and in the city        |
| 3. | Transportation       | Taxi Service, Rickshaw from AD         |
| 4. | Medical Facilities   | First Aid at AD, Hospitals in the city |
| 5. | Bank and Post Office | ATM Available (Global IME Bank)        |
| 6. | Tourist Office       | In the city.                           |
| 7. | Remarks              | -                                      |

#### **VNVT AD 2.6 RESCUE AND FIRE FIGHTING SERVICE**

|    |   |   |
|----|---|---|
| 1. | AD Category for firefighting                | Category 5  |
| 2. | Rescue equipment                            | Available as per Category   |
| 3. | Capability for removal of disabled aircraft | NIL   |
| 4. | Remarks                                     | Ambulance service and wheel type of fire extinguishers available. |

#### **VNVT AD 2.7 SEASONAL AVAILABILITY**

Aerodrome is available throughout the year.

#### **VNVT AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATION DATA**

|    |  |   |
|----|--|---|
| 1. | Apron surface and strength                   | Surface - Asphalt Concrete,<br>Strength - ...                                       |
| 2. | Taxiway width, surface and strength          | Width - TWY A 18m, TWY B 15m, TWY C 20m,<br>Surface - Asphalt Strength - 20/F/D/Y/T |
| 3. | Altimeter check point location and elevation | Location: - At Apron<br>Elevation:- 246 ft.   |
| 4. | VOR/DME checkpoints                          | VOR:- Taxi holding position.  |
| 5. | Remarks                                      | Total APRON area = Flexible 180m × 63m +<br>Rigid 69m x 40m                         |

## **VNVT 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 | Taxiing guidance signs at intersections with TWY and RWY and at holding positions. Guide lines at apron.   |
| 2. | RWY and TWY markings and LGT  | RWY: 09/27, THR, TDZ, Center line, RWY edge marked and RWY END, THR, RWY edge have lights.<br>TWY: Center line, holding positions at all TWY/RWY intersections marked and edge with blue lights. |
| 3. | Stop bars   | Not Available  |
| 4. | Remarks   | -  |

## **VNVT AD 2.10 AERODROME OBSTACLES**

| Obstacle ID | Obstacle Name                        | WGS84 coordinates |              | Elevation (M/Ft) | Remarks |
|-------------|--------------------------------------|-------------------|--------------|------------------|---------|
|             |                                      | Longitudes        | Latitudes    |                  |         |
| VT0001      | Makalu FM                            | 26°26'58.8"N      | 87°16'41.2"E | 106/346          |         |
| VT0002      | Telecom Tower                        | 26°27'06.4"N      | 87°16'47.0"E | 120/395          |         |
| VT0003      | Water Tank                           | 26°27'36.1"N      | 87°17'08.8"E | 98/322           |         |
| VT0004      | Telecom Tower (NTC)                  | 26°27'40.7"N      | 87°17'09.4"E | 136/448          |         |
| VT0005      | NDB                                  | 26°29'07.0"N      | 87°15'59.4"E | 104/342          |         |
| VT0006      | NDB-SML                              | 26°29'05.6"N      | 87°15'59.6"E | 95/313           |         |
| VT0007      | ATC Tower                            | 26°29'02.2"N      | 87°15'57.5"E | 95/313           |         |
| VT0008      | Noble Medical College Hostel         | 26°29'27.5"N      | 87°16'00.5"E | 96/313           |         |
| VT0009      | Noble Medical College Hostel (Right) | 26°29'27.4"N      | 87°16'01.5"E | 96/314           |         |
| VT0010      | FM Tower                             | 26°29'02.7"N      | 87°16'00.3"E | 97/319           |         |
| VT0011      | House                                | 26°28'58.7"N      | 87°16'16.4"E | 84/277           |         |
| VT0012      | House                                | 26°29'02.1"N      | 87°16'15.3"E | 87/287           |         |
| VT0013      | House                                | 26°29'02.9"N      | 87°16'16.0"E | 87/284           |         |
| VT0014      | House                                | 26°29'01.4"N      | 87°16'18.1"E | 87/285           |         |
| VT0015      | Tree                                 | 26°28'58.9"N      | 87°16'18.9"E | 84/275           |         |
| VT0016      | House                                | 26°28'59.6"N      | 87°16'19.4"E | 86/281           |         |
| VT0017      | House                                | 26°28'59.2"N      | 87°16'19.3"E | 83/273           |         |
| VT0018      | House                                | 26°28'58.4"N      | 87°16'20.3"E | 82/270           |         |
| VT0019      | House                                | 26°29'01.3"N      | 87°16'21.5"E | 85/279           |         |
| VT0020      | House                                | 26°28'59.1"N      | 87°16'21.4"E | 83/271           |         |
| VT0021      | House                                | 26°28'58.4"N      | 87°16'21.1"E | 81/265           |         |
| VT0022      | House                                | 26°29'00.6"N      | 87°16'22.5"E | 86/281           |         |
| VT0023      | Tree                                 | 26°29'02.5"N      | 87°16'23.3"E | 89/292           |         |
| VT0024      | Tree                                 | 26°29'02.6"N      | 87°16'22.5"E | 88/289           |         |
| VT0025      | Hotel Asiatique Pvt. Ltd             | 26°29'05.6"N      | 87°16'25.7"E | 97/319           |         |
| VT0026      | Tree                                 | 26°28'58.3"N      | 87°16'22.6"E | 89/292           |         |
| VT0027      | House                                | 26°28'59.2"N      | 87°16'23.3"E | 83/272           |         |
| VT0028      | House                                | 26°28'59.6"N      | 87°16'24.3"E | 83/271           |         |

|        |           |              |              |        |  |
|--------|-----------|--------------|--------------|--------|--|
| VT0029 | House     | 26°29'01.3"N | 87°16'26.0"E | 85/280 |  |
| VT0030 | Tree      | 26°29'00.2"N | 87°16'27.8"E | 94/308 |  |
| VT0031 | House     | 26°29'00.3"N | 87°16'32.2"E | 91/299 |  |
| VT0032 | House     | 26°29'00.7"N | 87°16'31.3"E | 87/286 |  |
| VT0033 | House     | 26°29'01.6"N | 87°16'32.3"E | 91/300 |  |
| VT0034 | House     | 26°28'57.3"N | 87°16'32.2"E | 89/291 |  |
| VT0035 | Tree      | 26°28'57.5"N | 87°16'31.2"E | 88/288 |  |
| VT0036 | House     | 26°28'57.1"N | 87°16'33.4"E | 90/295 |  |
| VT0037 | House     | 26°28'56.3"N | 87°16'32.1"E | 88/288 |  |
| VT0038 | Tree      | 26°28'55.0"N | 87°16'31.7"E | 91/297 |  |
| VT0039 | House     | 26°28'55.5"N | 87°16'32.3"E | 85/280 |  |
| VT0040 | House     | 26°28'54.0"N | 87°16'32.0"E | 86/282 |  |
| VT0041 | House     | 26°28'52.4"N | 87°16'32.4"E | 86/281 |  |
| VT0042 | Tree      | 26°28'53.0"N | 87°16'31.1"E | 88/288 |  |
| VT0043 | House     | 26°28'51.6"N | 87°16'32.5"E | 87/286 |  |
| VT0044 | Tree      | 26°28'51.7"N | 87°16'30.4"E | 89/290 |  |
| VT0045 | Tree      | 26°28'50.0"N | 87°16'29.1"E | 87/286 |  |
| VT0046 | Tree      | 26°28'49.3"N | 87°16'28.9"E | 85/280 |  |
| VT0047 | House     | 26°28'46.0"N | 87°16'30.3"E | 95/313 |  |
| VT0048 | House     | 26°28'50.6"N | 87°16'26.8"E | 83/273 |  |
| VT0049 | Tree      | 26°28'51.2"N | 87°16'25.1"E | 87/286 |  |
| VT0050 | Tree      | 26°28'50.6"N | 87°16'25.1"E | 82/270 |  |
| VT0051 | House     | 26°28'50.8"N | 87°16'23.3"E | 82/270 |  |
| VT0052 | House     | 26°28'51.1"N | 87°16'22.1"E | 83/272 |  |
| VT0053 | House     | 26°28'51.2"N | 87°16'21.1"E | 84/275 |  |
| VT0054 | House     | 26°28'51.2"N | 87°16'21.4"E | 83/272 |  |
| VT0055 | House     | 26°28'51.2"N | 87°16'19.4"E | 86/281 |  |
| VT0056 | House     | 26°28'48.5"N | 87°16'16.7"E | 85/277 |  |
| VT0057 | House     | 26°28'51.2"N | 87°16'17.4"E | 83/271 |  |
| VT0058 | House     | 26°28'50.2"N | 87°16'15.7"E | 86/282 |  |
| VT0059 | House     | 26°28'51.4"N | 87°16'16.2"E | 80/263 |  |
| VT0060 | House     | 26°28'56.9"N | 87°16'38.5"E | 96/314 |  |
| VT0061 | Tree      | 26°28'50.3"N | 87°15'24.8"E | 84/275 |  |
| VT0062 | Tree      | 26°28'48.8"N | 87°15'24.7"E | 88/289 |  |
| VT0063 | Tree      | 26°28'48.5"N | 87°15'20.2"E | 86/284 |  |
| VT0064 | Tree      | 26°28'48.9"N | 87°15'18.5"E | 86/283 |  |
| VT0065 | Windshock | 26°28'58.6"N | 87°15'23.2"E | 81/266 |  |
| VT0066 | Tree      | 26°29'03.1"N | 87°15'19.0"E | 91/299 |  |

|        |                           |              |              |         |  |
|--------|---------------------------|--------------|--------------|---------|--|
| VT0075 | Tree                      | 26°28'58.4"N | 87°15'05.2"E | 85/280  |  |
| VT0076 | Tree                      | 26°28'57.7"N | 87°15'03.2"E | 83/273  |  |
| VT0077 | Tree                      | 26°28'48.8"N | 87°14'59.2"E | 88/290  |  |
| VT0078 | Tree                      | 26°28'48.8"N | 87°14'59.1"E | 87/285  |  |
| VT0079 | Tree                      | 26°28'46.5"N | 87°14'52.6"E | 90/296  |  |
| VT0080 | Tree                      | 26°28'49.1"N | 87°14'49.6"E | 86/281  |  |
| VT0081 | Tree                      | 26°29'00.5"N | 87°14'42.0"E | 90/296  |  |
| VT0082 | House                     | 26°29'02.6"N | 87°14'45"E   | 88/289  |  |
| VT0083 | Tree                      | 26°29'02.6"N | 87°14'50.2"E | 90/296  |  |
| VT0084 | Tree                      | 26°28'54.6"N | 87°14'41.2"E | 89/293  |  |
| VT0085 | Tree                      | 26°29'06.7"N | 87°14'58"E   | 91/297  |  |
| VT0086 | Tree                      | 26°29'06.8"N | 87°15'4.3"E  | 92/302  |  |
| VT0087 | VOR                       | 26°28'58.2"N | 87°14'58.3"E | 86/283  |  |
| VT0088 | VOR                       | 26°28'57.5"N | 87°14'58.5"E | 86/283  |  |
| VT0089 | VOR                       | 26°28'57.6"N | 87°14'57.7"E | 86/283  |  |
| VT0090 | Telecom Tower             | 26°29'12.3"N | 87°16'40.0"E | 99/325  |  |
| VT0091 | Telecom Tower             | 26°29'10.5"N | 87°16'33.1"E | 96/314  |  |
| VT0092 | House                     | 26°29'11.1"N | 87°16'01.4"E | 89/293  |  |
| VT0093 | House                     | 26°29'11.3"N | 87°16'04.5"E | 86/282  |  |
| VT0094 | Telecom Tower(NTC)        | 26°30'47.3"N | 87°13'46.4"E | 104/341 |  |
| VT0095 | Telecom Tower             | 26°30'10.6"N | 87°13'48.3"E | 110/361 |  |
| VT0096 | Noble Medical College     | 26°29'21.7"N | 87°16'12.4"E | 99/326  |  |
| VT0097 | House                     | 26°30'56.8"N | 87°16'45.8"E | 111/364 |  |
| VT0098 | House                     | 26°30'50.8"N | 87°17'07.3"E | 135/443 |  |
| VT0099 | House                     | 26°30'58.0"N | 87°16'45.8"E | 102/335 |  |
| VT0100 | Telecom Tower             | 26°31'06.3"N | 87°16'48.3"E | 114/373 |  |
| VT0101 | Chimney                   | 26°31'04.3"N | 87°16'43.9"E | 111/364 |  |
| VT0102 | Chimney                   | 26°31'04.6"N | 87°16'23.0"E | 117/383 |  |
| VT0103 | Chimney                   | 26°31'06.9"N | 87°16'23.1"E | 110/361 |  |
| VT0104 | Telecom Tower             | 26°31'26.0"N | 87°16'42.9"E | 136/446 |  |
| VT0105 | Water Tank                | 26°30'07.8"N | 87°17'15.8"E | 106/348 |  |
| VT0106 | Water Tank                | 26°29'51.9"N | 87°17'23.5"E | 102/336 |  |
| VT0107 | Chimney                   | 26°30'19.9"N | 87°18'24.9"E | 111/363 |  |
| VT0108 | Telecom Tower             | 26°29'44.2"N | 87°18'22.7"E | 102/334 |  |
| VT0109 | Telecom Tower             | 26°28'46.3"N | 87°18'0.8"E  | 92/303  |  |
| VT0110 | Water Tank                | 26°28'21.9"N | 87°17'4.6"E  | 103/338 |  |
| VT0111 | FM                        | 26°28'05.6"N | 87°17'01.0"E | 113/370 |  |
| VT0112 | House                     | 26°28'03.8"N | 87°17'07.0"E | 113/370 |  |
| VT0113 | Wi-Fi                     | 26°28'02.5"N | 87°17'02.1"E | 101/331 |  |
| VT0114 | Telecom Tower             | 26°27'51.0"N | 87°16'58.0"E | 108/354 |  |
| VT0115 | Wi-Fi                     | 26°27'53.5"N | 87°16'57.5"E | 108/354 |  |
| VT0116 | Panchmukhi Hanuman Mandir | 26°27'21.7"N | 87°16'48.2"E | 92/301  |  |

|        |                         |              |              |         |  |
|--------|-------------------------|--------------|--------------|---------|--|
| VT0117 | Wi-Fi                   | 26°27'22.6"N | 87°16'49.3"E | 107/349 |  |
| VT0118 | Wi-Fi                   | 26°27'26.3"N | 87°16'49.6"E | 102/336 |  |
| VT0119 | Telecom Tower           | 26°27'27.7"N | 87°16'48.7"E | 110/360 |  |
| VT0120 | Bhatbhateni Supermarket | 26°27'35.2"N | 87°16'40.2"E | 102/333 |  |
| VT0121 | Golcha House            | 26°27'56.8"N | 87°16'37.4"E | 91/299  |  |
| VT0122 | NHC                     | 26°27'46.1"N | 87°16'39.4"E | 94/309  |  |
| VT0123 | Telecom Tower           | 26°27'59.5"N | 87°16'40.2"E | 106/349 |  |
| VT0124 | Water Tank              | 26°28'12.3"N | 87°16'38.7"E | 106/348 |  |
| VT0125 | Telecom Tower (Ncell)   | 26°28'06.4"N | 87°16'39.2"E | 100/328 |  |
| VT0126 | Telecom Tower           | 26°28'33.7"N | 87°16'04.3"E | 94/307  |  |
| VT0127 | Telecom Tower           | 26°28'34.6"N | 87°15'58.8"E | 96/314  |  |
| VT0128 | Water Tank              | 26°28'34.1"N | 87°16'11.8"E | 98/322  |  |
| VT0129 | FM                      | 26°28'20.8"N | 87°16'22.4"E | 120/392 |  |
| VT0130 | Telecom Tower           | 26°29'32.2"N | 87°16'53.6"E | 98/321  |  |
| VT0131 | Telecom Tower           | 26°29'32.0"N | 87°16'51.3"E | 106/346 |  |
| VT0132 | Chimney                 | 26°29'56.8"N | 87°16'43.2"E | 108/354 |  |

## **VNVT AD 2.11 METEOROLOGICAL INFORMATION PROVIDED**

|     |   |   |
|-----|---|---|
| 1.  | Associated MET Office   | MET office, BIRATNAGAR AIRPORT                    |
| 2.  | Hours of service MET office outside hours                           | Available during Operation Hrs.                   |
| 3.  | Office responsible for TAF preparation periods of validity          | NIL   |
| 4.  | Type of landing forecast interval of issuance                       | NIL   |
| 5.  | Briefing/Consultation provided                                      | METAR   |
| 6.  | Flight documentation language(s)used                                | Charts or Tabular forms Text English              |
| 7.  | Charts and other information available for briefing or consultation | Personnel consultation based on past data logbook |
| 8.  | Supplementary equipment available for providing information         | AFS : VNVTYMYX                                    |
| 9.  | ATS units provided with information                                 | Biratnagar TWR                                    |
| 10. | Additional information (limitation of service, etc.)                | MET Office Tel: 977 - 021-465276                  |

## VNVT AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

| Designation<br>RWY<br>NR | TRUE &<br>MAG<br>BRG | Dimensions<br>of RWY (M) | Strength<br>(PCN) and<br>surface of<br>RWY and<br>SWY | THR<br>Coordinates        | THR<br>elevation        |
|--------------------------|----------------------|--------------------------|---|---------------------------|-------------------------|
| 1                        | 2                    | 3                        | 4   | 5                         | 6                       |
| 09                       | 092                  | 1775x30                  | 37/F/D/Y/T<br>Bitumen                                 | 262856.93N<br>0871522.24E | 73.70 m<br>(241.70 ft.) |
| 27                       | 272                  | 1775X30                  | 37/F/D/Y/T<br>Bitumen                                 | 262855.02N<br>0871616.34E | 73.80 m<br>(242.10 ft.) |
| Slope of<br>RWY-SWY      | SWY<br>Dimension     | CWY<br>Dimension         | Strip<br>Dimension                                    | OFZ                       | Remarks                 |
| 7                        | 8                    | 9                        | 10  | 11                        | 12                      |
| .....                    | .....                | .....                    | .....   | .....                     | .....                   |

## VNVT AD 2.13 DECLARED DISTANCES

| RWY<br>Designator | TORA (m) | TODA (m) | ASDA (m) | LDA (m) | Remarks |
|-------------------|----------|----------|----------|---------|---------|
| 1                 | 2        | 3        | 4        | 5       | 6       |
| 09                | 1775     | 1775     | 1775     | 1675    |         |
| 27                | 1775     | 1775     | 1775     | 1600    |         |

## VNVT AD 2.14 APPROACH AND RUNWAY LIGHTING

| RWY<br>Designator | APCH<br>LGT<br>type<br>LEN<br>INTST       | THR<br>LGT<br>color<br>WBAR | VASIS<br>PAPI | TDZ<br>LGT<br>LEN | RWY<br>Center<br>Line LGT<br>Length,<br>spacing<br>color,<br>INTST | RWY edge<br>LGT LEN,<br>spacing color<br>INTST                        | RWY<br>End<br>LGT<br>color | SWY LGT<br>LEN (M)<br>color | Remarks |
|-------------------|---|-----------------------------|---------------|-------------------|--|---|----------------------------|-----------------------------|---------|
| 1                 | 2   | 3                           | 4             | 5                 | 6  | 7   | 8                          | 9                           | 10      |
| 09                | SALS<br>barrette<br>type)<br>420 M<br>LIM | Green                       | PAPI<br>3.15° | NIL               | NIL  | 1775m, 60m,<br>variable white,<br>white-yellow,<br>Red-yellow,<br>LIH | Red                        | NIL                         |         |
| 27                | NIL                                       | Green                       | PAPI<br>3.00° | NIL               | NIL  | 1775m, 60m,<br>variable white,<br>white-yellow,<br>Red-yellow,<br>LIH | Red                        | NIL                         |         |

\* WGS 84 Coordinates

## **VNVT AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY**

|    |  |   |
|----|--|---|
| 1. | ABN /IBN Location, characteristics and hours of operation                  | ABN: at above Aerodrome Control Tower, Green flashes alternating with white flashes, 28 flashes per minute normally after Sunset.                                       |
| 2. | LDI Location and LGT Anemometer Location and LGT                           | NIL   |
| 3. | TWY edge and Centre line lighting  | Edge: All TWY<br>Centre Line : NIL  |
| 4. | Secondary power supply / switch over time                                  | Stand-by Diesel Generator to all lighting and Uninterrupted Power Supply to Airfield Ground Lighting (AGL) System at AD. With 30 minutes back up.                       |
| 5. | Runway Threshold Identification Light (RTIL) Location and Characteristics. | Location : RWY Threshold 09, Flashing white light with flash frequency 120 per Minute<br>: RWY Threshold 27, Flashing white light with flash frequency 120 per minutes. |
| 6. | Remarks  | NIL   |

## **VNVT AD 2.16 HELICOPTER LANDING AREA**

Helicopter landing area - RWY or TWY A and RWY intersection or paralled TWY B

## **VNVT AD 2.17 ATS AIRSPACE**

|                                     |  |                  |
|-------------------------------------|--|------------------|
| 1. Designation and lateral limits   | <u>Biratnagar CTR</u> : An area bounded by VNSM boundary to the south and an arc of a circle 20 NM in radius centered at 'BRT' VOR (262858N, 0871458E*) plus an area enclosed by R295 BRT – R345 BRT upto 30 NM<br><u>Biratnagar ATZ</u> : An area of a circle of radius 5 NM centered at 'ARP' and to the south bounded by VNSM boundary. |                  |
| 2. Vertical Limits                  | CTR  | ATZ              |
|                                     | 10500' MSL<br>GND  | 2000' AGL<br>GND |
| 3. Airspace classification          | C  |                  |
| 4. ATS units call sign/languages(s) | Biratnagar TWR/English   |                  |
| 5. Transition Altitude              | 13500' AMSL  |                  |
| 6. Remarks                          | -  |                  |

## **VNVT AD 2.18 ATS COMMUNICATION FACILITIES**

| Service Designation | Call Sign        | Frequency | Hours of Operation** | Remarks |
|---------------------|------------------|-----------|----------------------|---------|
| 1                   | 2                | 3         | 4                    | 5       |
| TWR                 | Biratnagar Tower | 123.8 MHZ | As ATS               | -       |

\* WGS 84 Coordinates

## **VNVT AD 2.19    RADIO NAVIGATION AND LANDING AID**

| Type of Aid<br>MAG VAR  |     |                       |              | Position of<br>Transmitting<br>Antenna<br>Coordinates | Elevation of<br>DME<br>Transmitting<br>Antenna | Remarks                             |
|---|-----|-----------------------|--------------|---|--|-------------------------------------|
| Type of supported<br>OP (for<br>VOR/ILS/MLS<br>give declinations) | ID  | Frequency             | OPR<br>Hours | Position of<br>Transmitting<br>Antenna<br>Coordinates | Elevation of<br>DME<br>Transmitting<br>Antenna | Remarks                             |
| 1   | 2   | 3                     | 4            | 5   | 6  | 7                                   |
| DVOR/DME<br>0°W   | BRT | 114.1 MHZ<br>CHN 88 X | H24          | 262858N*<br>0871458E                                  | 87 m   | DVOR Range 100NM<br>DME Range 100NM |

## **VNVT AD 2.20    LOCAL TRAFFIC REGULATIONS**

To be Developed

## **VNVT AD 2.21    NOISE ABATEMENT PROCEDURES**

NIL

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\* WGS -84 Coordinates

## **VNVT AD 2.22 FLIGHT PROCEDURES**

**Intentionally Blank**

## **VNVT AD 2.23 ADDITIONAL INFORMATION**

### **1. Bird Activity**

- a) Sometimes cases of bird concentrations in the vicinity of aerodrome may be encountered.
- b) 2. No Special procedures have been adopted to control these bird concentrations except driving them through guards and security personnel.

**VNVT AD 2.24 CHARTS RELATED TO BIRATNAGAR AIRPORT**

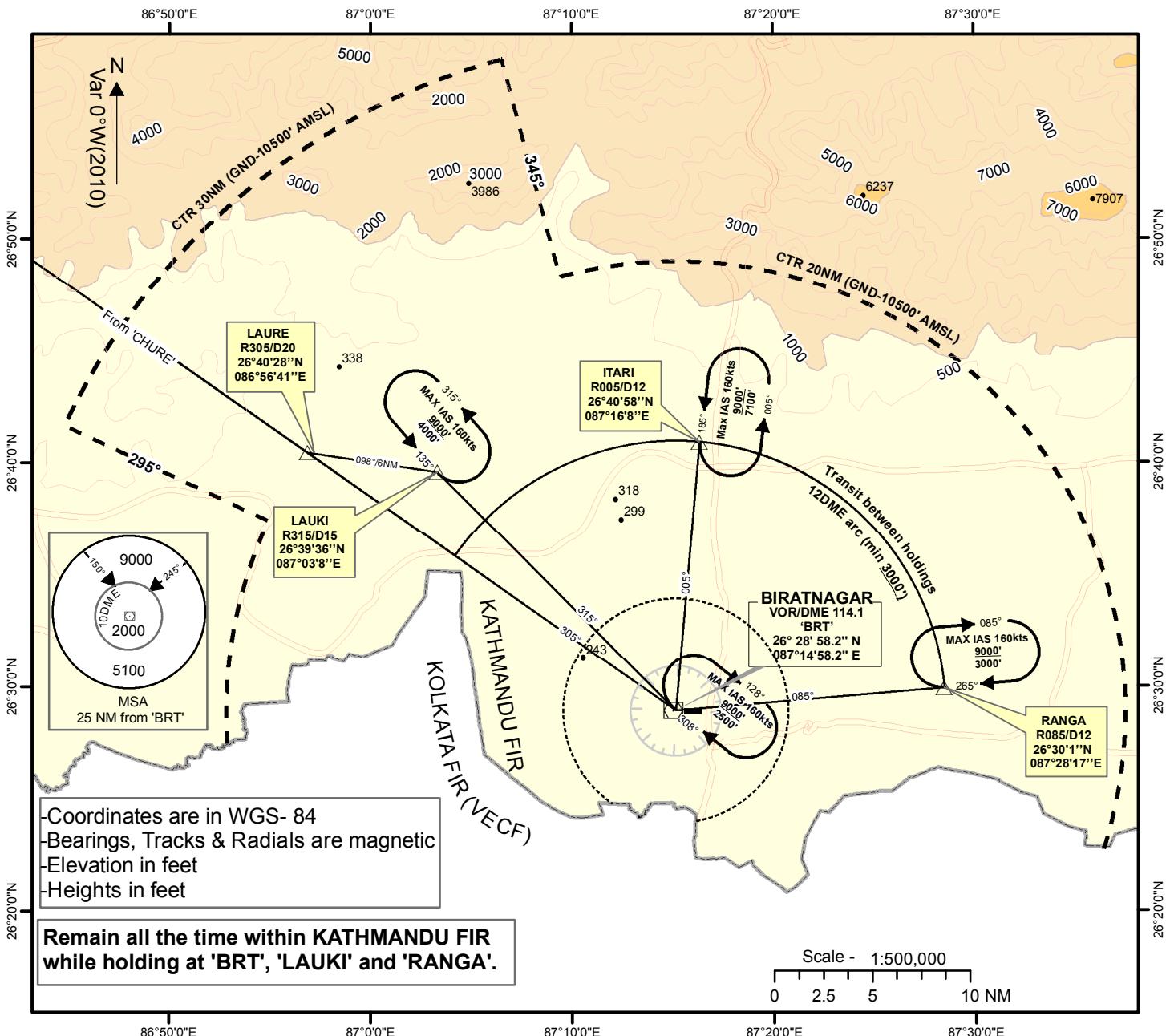
|   |              |
|---|--------------|
| Control Zone and Holding Points   | VNVT AD 2-12 |
| Instrument Approach Chart –ICAO VOR Z RWY 09  | VNVT AD 2-13 |
| Instrument Approach Chart –ICAO VOR Y RWY 09  | VNVT AD 2-14 |
| Instrument Approach Chart – ICAO VOR RWY 27   | VNVT AD 2-15 |
| Standard Departure Chart – Instrument (SID) - ICAO - LAUKI 1 A,<br>LAUKI 1B, LAUKI 1C, LAUKI 1D | VNVT AD 2-16 |
| Standard Departure Chart – Instrument (SID) - ICAO - ITARI 1A, ITARI 1B, ITARI 1C, ITARI 1D     | VNVT AD 2-17 |
| Standard Departure Chart – Instrument (SID) - ICAO - RANGA 1A, RANGA 1B                         | VNVT AD 2-18 |
| Standard Arrival Chart – Instrument (STAR) - ICAO - CHURE ARRIVAL                               | VNVT AD 2-19 |
| RNAV GNSS approach procedure at Biratnagar Airport  | VNVT AD 2-22 |
| Standard Arrival Chart – Instrument (STAR) - ICAO - RWY 09 CHURE 2A                             | VNVT AD 2-23 |
| Instrument Approach Chart – ICAO RNP RWY 09 ( LNAV ONLY)  | VNVT AD 2-24 |
| Standard Departure Chart – Instrument (SID) - ICAO - RWY 27 LAUKI 1E                            | VNVT AD 2-25 |
| Aerodrome Chart   | VNNT AD 2-26 |
| Aerodrome Chart (Aeronautical Ground Lighting System)   | VNVT AD 2-27 |

**AERODROME ELEV 242'  
TRANS LEVEL: FL150  
TRANS ALT: 13500 ft.  
Mag Var. 0°W (2010)**

**TWR 123.8**

**BIRATNAGAR, NEPAL  
Biratnagar Airport  
VOR 'BRT' 114.1  
NDB 'VTN' 358**

## CONTROL ZONE AND IFR HOLDING POINTS



- 'LAUKI' and 'RANGA' holdings are laterally separated from each other
- 'LAUKI' and 'BRT' holdings are laterally separated from each other

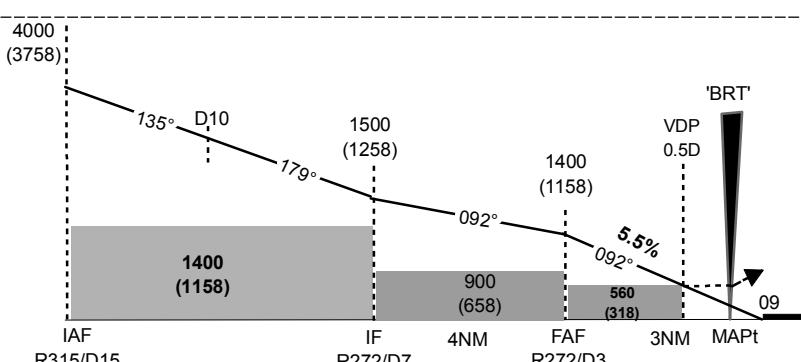
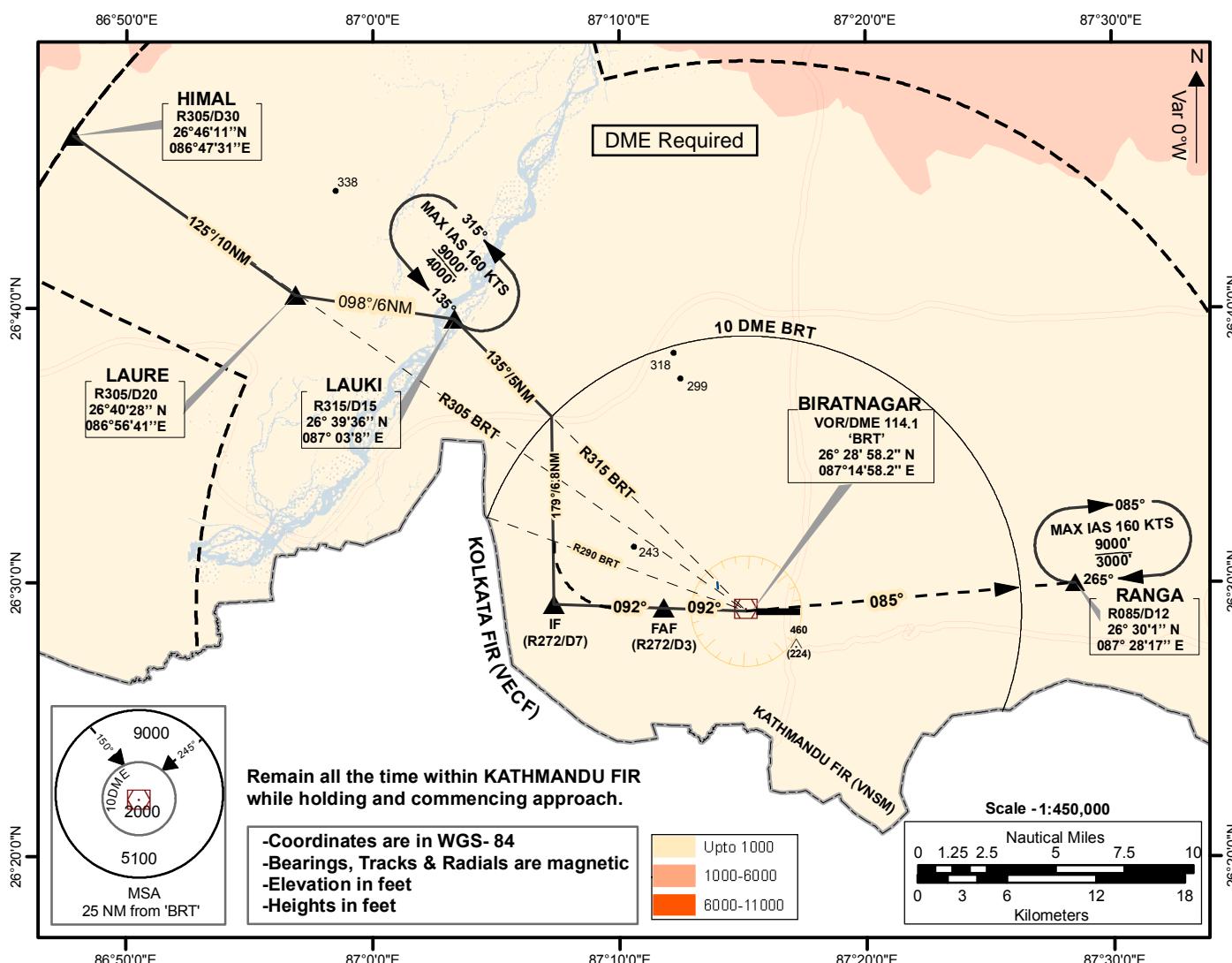
| NAV FAC        | FRQ          | COORDINATE                      |
|----------------|--------------|---------------------------------|
| DVOR/DME 'BRT' | 114.1MHz/88X | 26°28'58.2" N<br>087°14'58.2" E |

# INSTRUMENT APPROACH CHART - ICAO

**AERODROME ELEV 242'  
TRANS LEVEL: FL150  
TRANS ALT: 13500 ft.  
Mag Var. 0°W (2010)**

TWR 123.8 MHZ

**BIRATNAGAR, NEPAL**  
Biratnagar Airport  
**VOR Z RWY 09**  
**VOR 'BRT' 114.1**



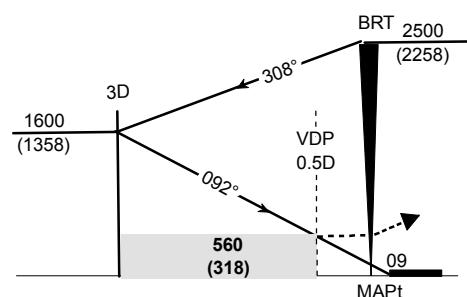
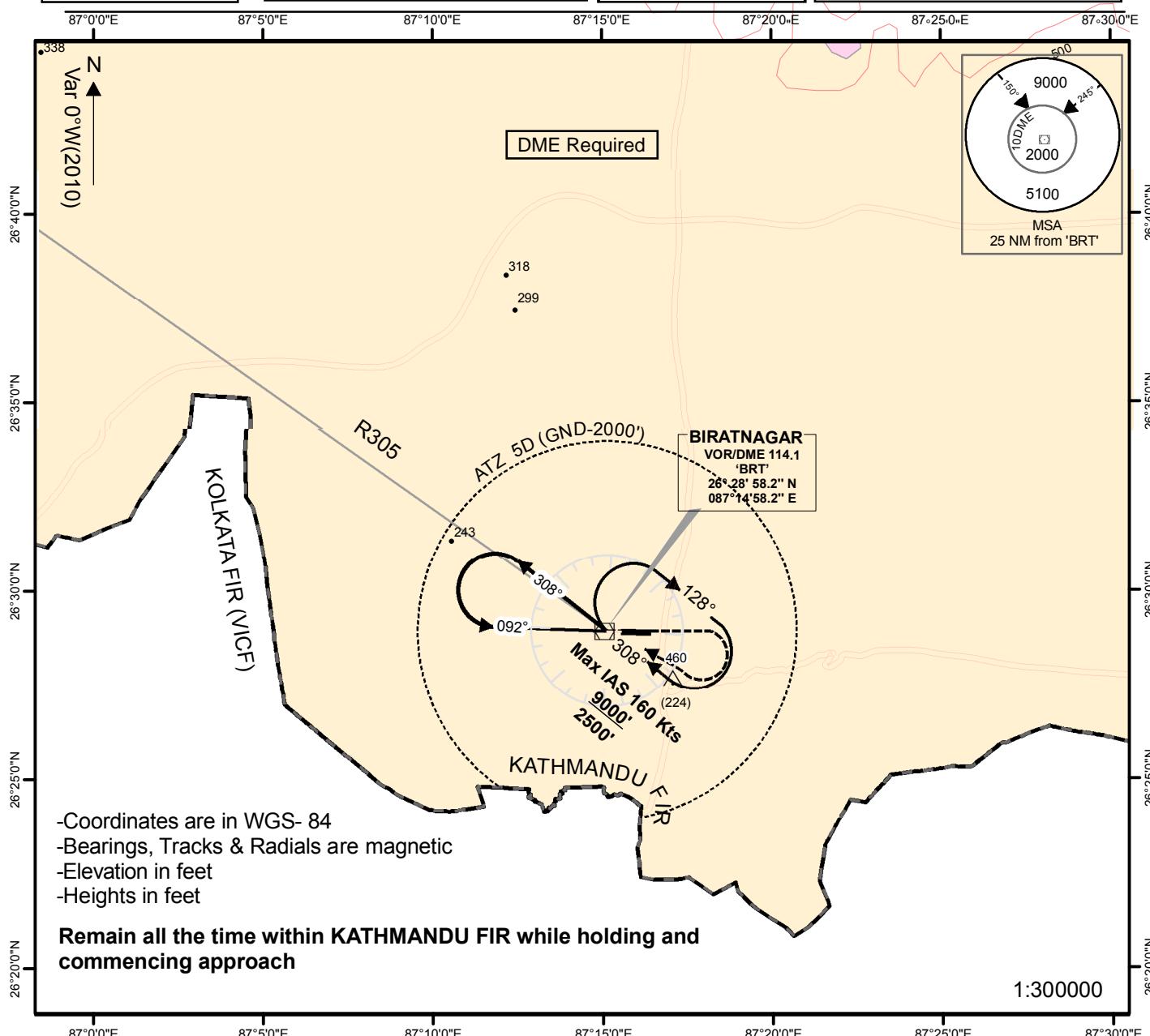
**MISSED APPROACH**  
**AT 'BRT', TURN LEFT TO INTERCEPT R085**  
**OUTBOUND TO RANGA. REACH RANGA**  
**AT OR ABOVE 3000' or as instructed by ATC**

**INSTRUMENT  
APPROACH  
CHART - ICAO**

**AERODROME ELEV 242'  
TRANS LEVEL: FL150  
TRANS ALT: 13500 ft.  
Mag Var. 0°W (2010)**

**TWR 123.8 MHZ**

**BIRATNAGAR, NEPAL  
Biratnagar Airport  
VOR Y RWY 09  
VOR 'BRT' 114.1**

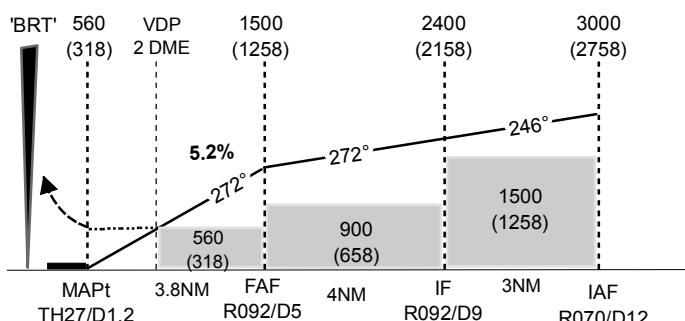
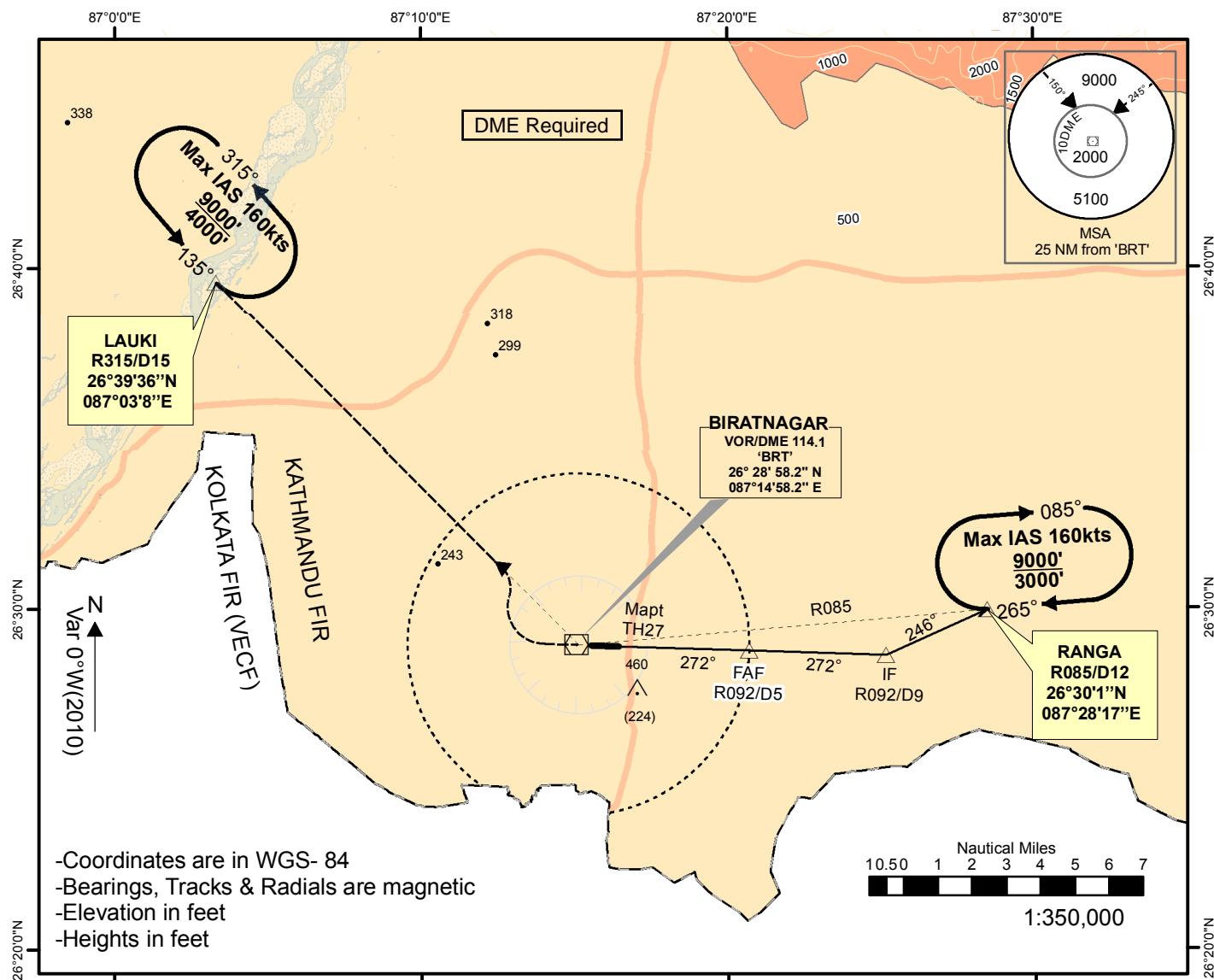


**MISSED APPROACH**  
**CLIMB STRAIGHT AHEAD TO 1000'. TURN RIGHT  
TO JOIN 'BRT' HOLDING PATTERN. REACH  
'BRT' AT OR ABOVE 2500'**

| OCA (H) - Visibility           |                  |                  |                  |    |
|--------------------------------|------------------|------------------|------------------|----|
| Cat of ACFT                    | A                | B                | C                | D  |
| ST-IN RWY 09                   | 560(318)-1600m   |                  | 560(318)-2000m   | NA |
|                                | ALS OUT - 2000m  |                  | ALS OUT - 2400m  |    |
|                                | 1400(1158)-2000m | 1400(1158)-2800m | 1500(1258)-3700m |    |
| <b>NOT AUTHORIZED AT NIGHT</b> |                  |                  |                  |    |

INSTRUMENT  
APPROACH  
CHART - ICAOAERODROME ELEV 242'  
TRANS LEVEL: FL150  
TRANS ALT: 13500 ft. Var  
0°W (2010)

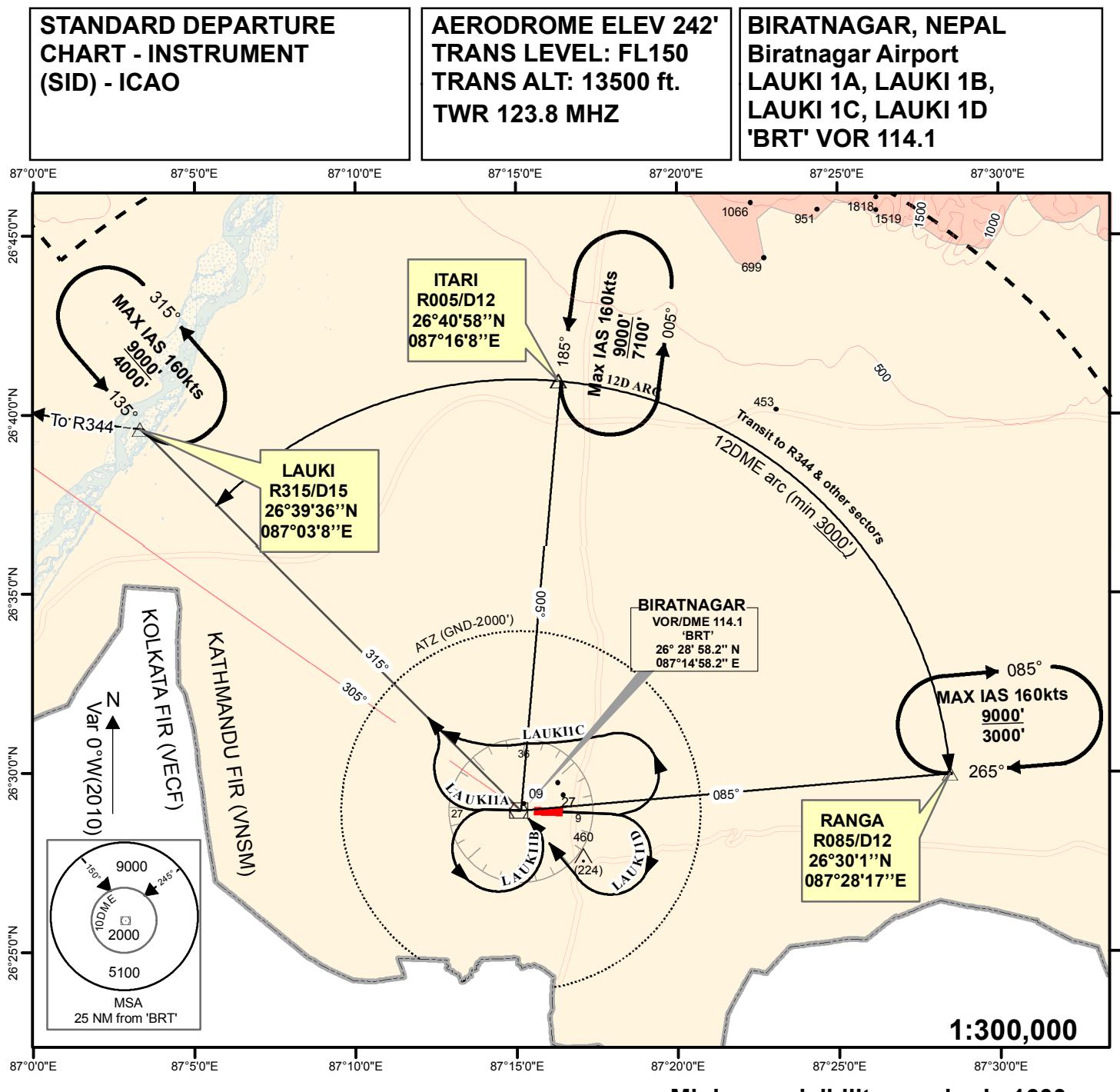
TWR 123.8 MHZ

BIRATNAGAR, NEPAL  
Biratnagar Airport  
VOR RWY 27  
VOR 'BRT' 114.1

MISSED APPROACH  
CLIMB STRAIGHT AHEAD TO 'BRT'. TURN  
RIGHT TO INTERCEPT R315 OUTBOUND TO  
LAUKI. REACH LAUKI AT OR ABOVE 4000'.  
THIS PROCEDURE REQUIRES A MISSED  
APPROACH GRADIENT OF 4.8%

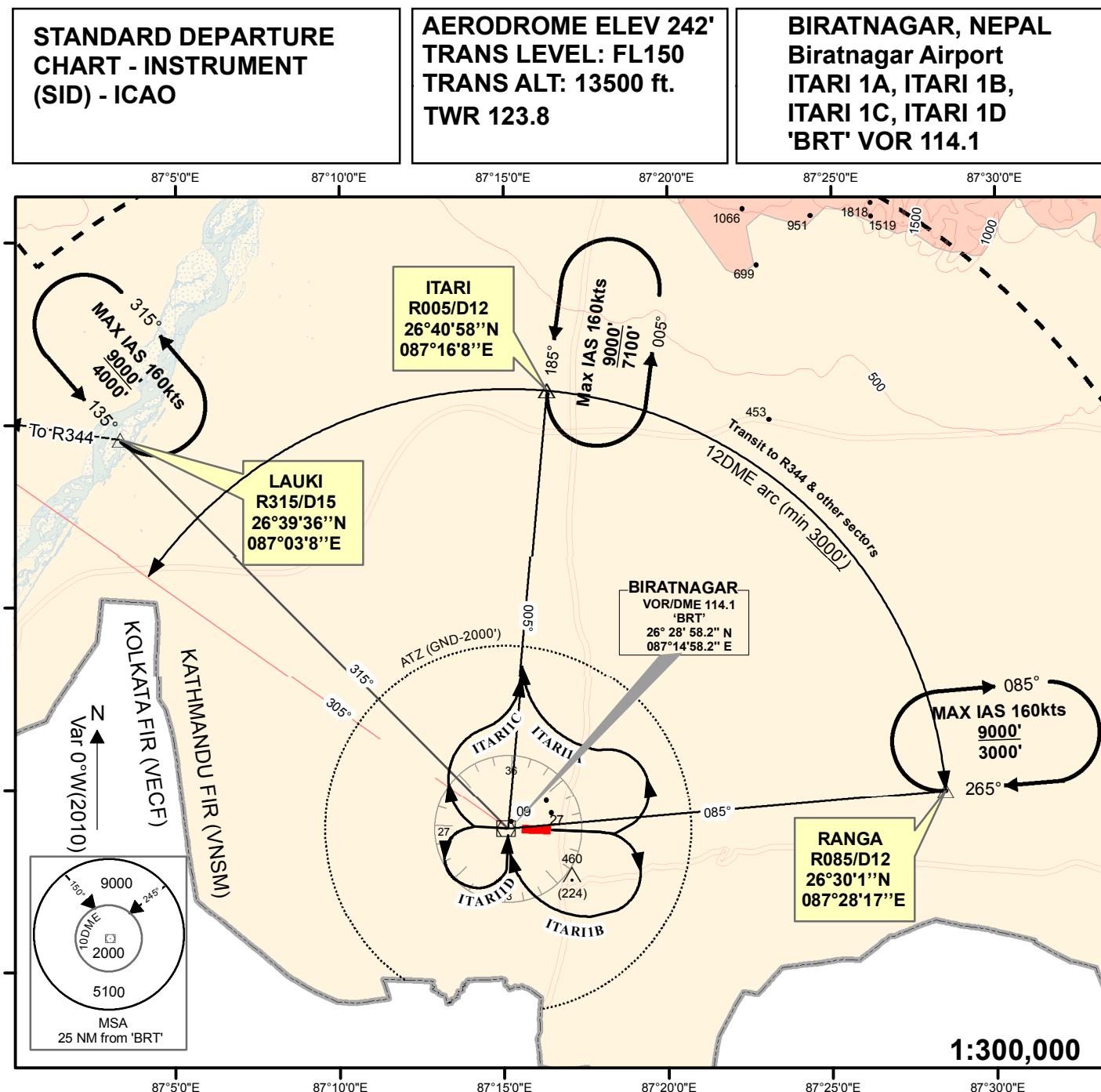
| Cat of ACFT  | OCA (H) - Visibility |                  |                  |    | Knots   | FAF to TH27 3.8 NM |      |      |      |      |
|--------------|----------------------|------------------|------------------|----|---------|--------------------|------|------|------|------|
|              | A                    | B                | C                | D  |         | 60                 | 90   | 120  | 150  | 180  |
| ST-IN RWY 27 | 560(318)- 2000m      |                  | 560(318)-2400m   | NA | Min:Sec | 3:50               | 2:33 | 1:55 | 1:32 | 1:17 |
| Circling     | 1400(1158)- 2000m    | 1400(1158)-2800m | 1500(1258)-3700m | NA | Ft/ min | 316                | 474  | 632  | 790  | 948  |

NOT AUTHORIZED AT NIGHT

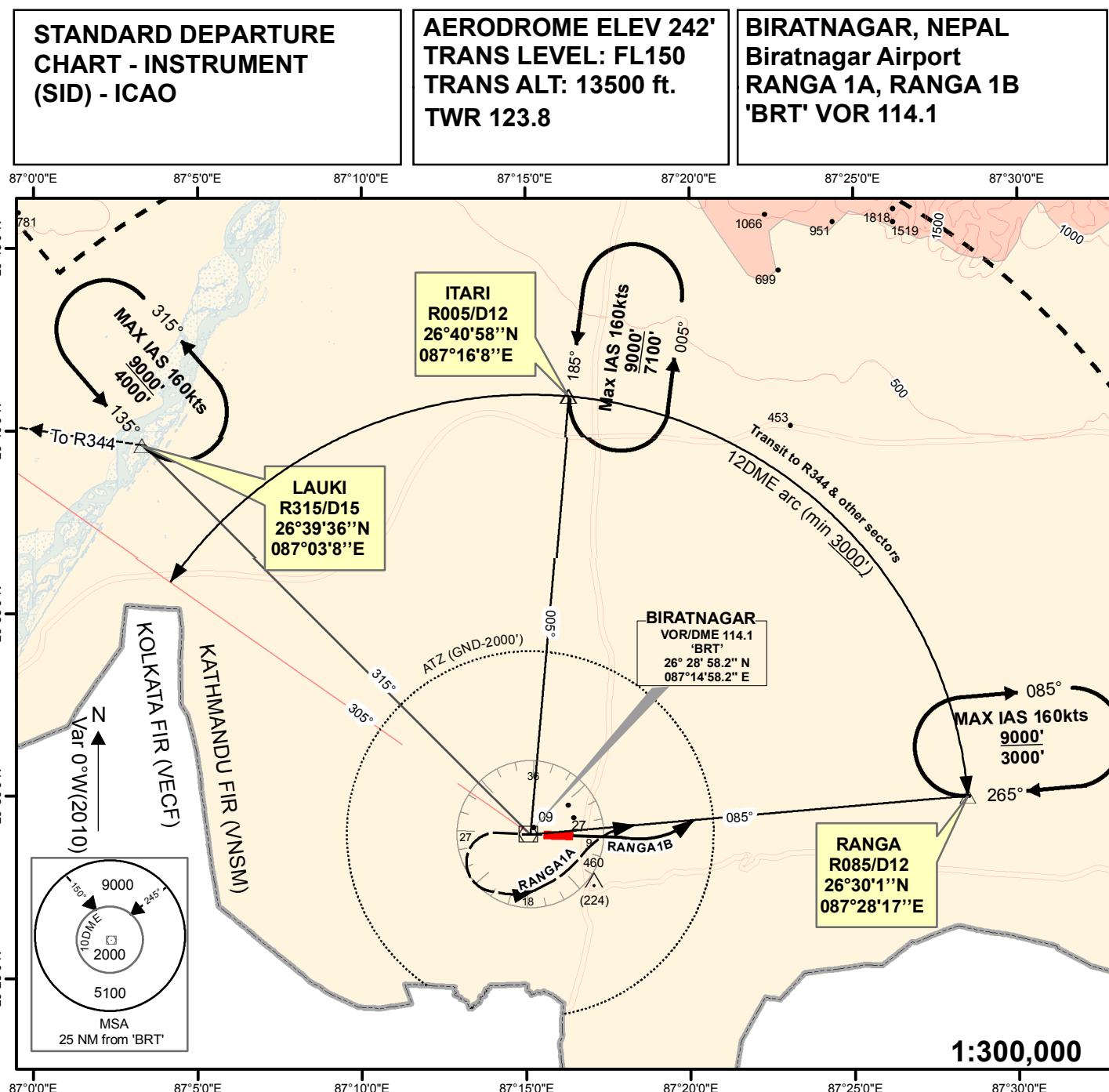


|               |   |
|---------------|---|
| <b>RWY 27</b> | <b>LAUKI 1A PDG = 5% Max IAS 180Kts</b><br>CLIMB STRAIGHT AHEAD. AT 1DME, TURN RIGHT TO INTERCEPT R315 OUTBOUND TO LAUKI (R315/D15) REACH LAUKI AT OR ABOVE 4000'   |
|               | <b>LAUKI 1B PDG = 5% Max IAS 180Kts</b><br>CLIMB STRAIGHT AHEAD. AT 1DME, TURN LEFT (REMAINING WITHIN 4 DME ARC) TO 'BRT'. FOLLOW OUTBOUND R315 TO LAUKI (R315/D15). REACH LAUKI AT OR ABOVE 4000'                      |
| <b>RWY 09</b> | <b>LAUKI 1C PDG = 5% Max IAS 180Kts</b><br>CLIMB STRAIGHT AHEAD. AT 2.5DME, TURN LEFT TO INTERCEPT R315 OUTBOUND TO LAUKI (R315/D15) REACH LAUKI AT OR ABOVE 4000'  |
|               | <b>LAUKI 1D PDG = 5% Max IAS 180Kts</b><br>CLIMB STRAIGHT AHEAD. AT 2.5DME, TURN RIGHT (REMAINING WITHIN 4 DME ARC) TO INTERCEPT R315 TO 'BRT'. FOLLOW OUTBOUND R315 TO LAUKI (R315/D15). REACH LAUKI AT OR ABOVE 4000' |

Note: At LAUKI climb to 5000 ft then set course to R344 via LAURE at 4% climb gradient till reaching MEA.



|               |  |
|---------------|--|
|               | <b>ITARI 1C PDG = 9% Max IAS 180Kts</b><br><br>CLIMB STRAIGHT AHEAD. AT 1DME, TURN RIGHT TO INTERCEPT R005 TO 'ITARI' (R005/D12). REACH ITARI AT OR ABOVE 7100'  |
| <b>RWY 27</b> | <b>ITARI 1D PDG = 7% Max IAS 180Kts</b><br><br>CLIMB STRAIGHT AHEAD. AT 1DME, TURN LEFT (REMAINING WITHIN 4 DME ARC) TO 'BRT'. THEN INTERCEPT R005 TO 'ITARI' (R005/D12). REACH ITARI AT OR ABOVE 7100'    |
|               | <b>ITARI 1A PDG = 9% Max IAS 180Kts</b><br><br>CLIMB STRAIGHT AHEAD. AT 2.5DME, TURN LEFT TO INTERCEPT R005 TO 'ITARI' (R005/D12). REACH ITARI AT OR ABOVE 7100'   |
| <b>RWY 09</b> | <b>ITARI 1B PDG = 7% Max IAS 180Kts</b><br><br>CLIMB STRAIGHT AHEAD. AT 2.5DME, TURN RIGHT (REMAINING WITHIN 4 DME ARC) TO 'BRT'. THEN INTERCEPT R005 TO 'ITARI' (R005/D12). REACH ITARI AT OR ABOVE 7100' |



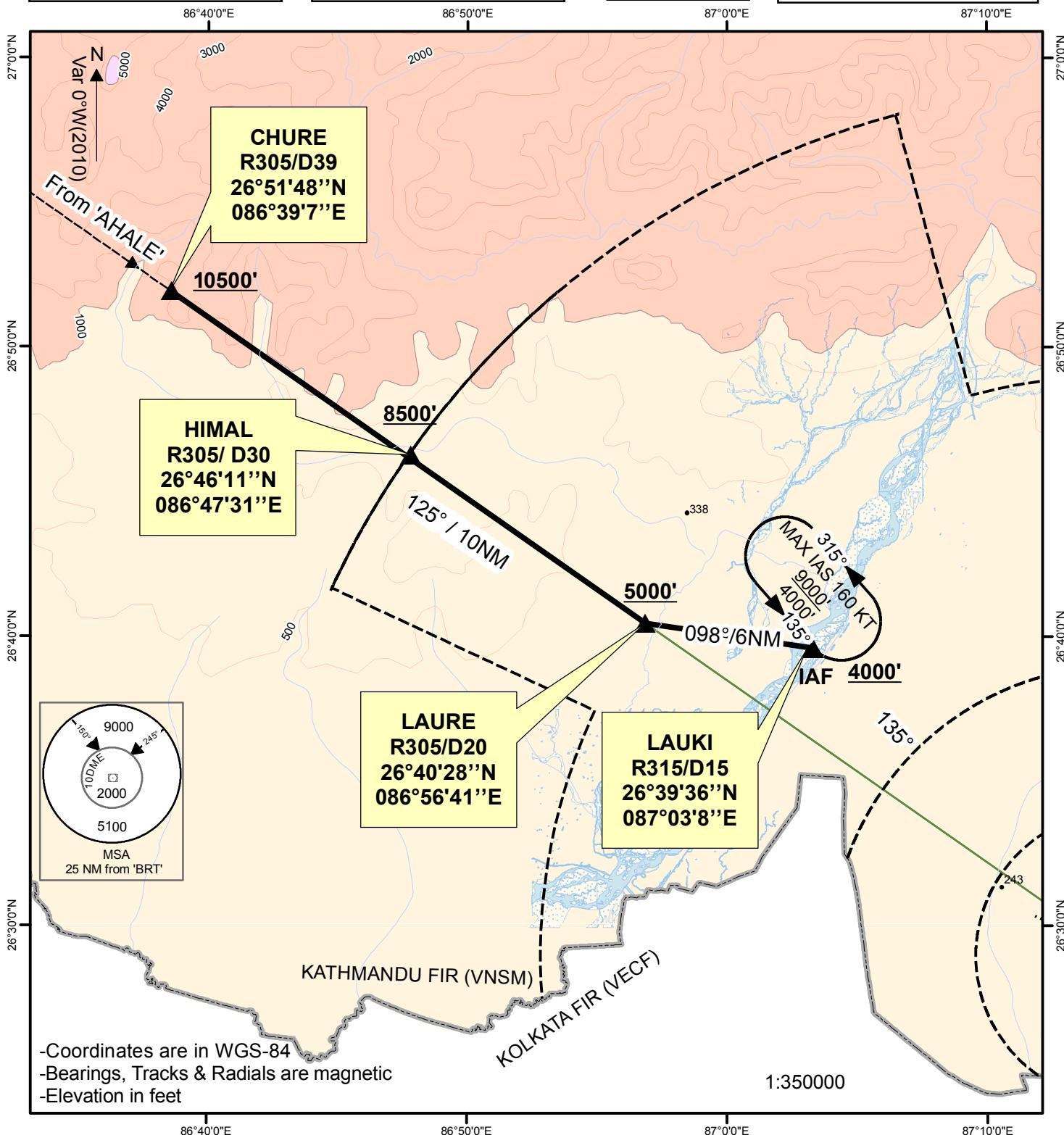
|               |  |
|---------------|--|
| <b>RWY 27</b> | <b>RANGA 1A PDG = 5% Max IAS 180Kts</b><br>CLIMB STRAIGHT AHEAD. AT 1DME, TURN LEFT (REMAINING WITHIN 4D ARC) TO INTERCEPT R085 OUTBOUND TO RANGA(R085/D12). REACH RANGA AT OR ABOVE 3000' |
| <b>RWY 09</b> | <b>RANGA 1B (PDG 4%)</b><br>CLIMB STRAIGHT AHEAD TO INTERCEPT R085 TO RANGA (R085/D12). REACH RANGA AT OR ABOVE 3000'  |

STANDARD ARRIVAL  
CHART - INSTRUMENT  
(STAR) - ICAO

AERODROME ELEV 242'  
TRANS LEVEL: FL150  
TRANS ALT: 13500 ft.  
Var 0°W (2010)

TWR 123.8

BIRATNAGAR, NEPAL  
Biratnagar Airport  
CHURE ARRIVAL  
VOR 'BRT' 114.1



**Routing:** From 'CHURE'(R305/D39 'BRT'), track to 'LAURE' (R305/D20 'BRT') via HIMAL then track H098° to 'LAUKI' (R315/D15 'BRT').

**Altitude:** Maintain A105 or above till 'CHURE', Then descend to 8500' to 'HIMAL'. Reach 'LAURE' at or above 5000' then descend to 4000' to LAUKI

## **RNAV (GNSS) approach procedure at BIRATNAGAR AIRPORT (VNVT)**

### **1. INTRODUCTION**

- 1.1 The following RNP Approach (RNAV GNSS) Procedure is designed for VNVT in accordance with the criteria as stipulated in the ICAO PANS-OPS (DOC 8168) Vol. II.
- 1.2 The RNAV (GNSS) Instrument Approach Procedure to VNVT is designed to enhance the safety and efficiency of the aircraft operations with an alternative approach procedure to access the airport.
- 1.3 This procedure provides an alternate to the existing VNVT VORDME z RWY 09 approach procedure to the aircraft with the RNP APCH capability
- 1.4 This RNAV GNSS approach procedure along with RNP1 STAR has been designed with LNAV Specifications only and utilizes GNSS as primary navigation system as stipulated in ICAO PBN Manual DOC 9613.
- 1.5 A full arrival, approach and missed approach trajectories have been designed. However, existing conventional holdings-LAUKI and RANGA shall be used for RNP approach and missed approach.
- 1.6 RNP 1 SID has been designed from RWY27 of the Biratnagar AirPort. This SID is an alternate to the existing VNVT LAUKI 1A Departure RWY 27.

### **2. APPROVED USERS, EQUIPMENT AND OPERATIONS**

- 2.1 For the RNAV (GNSS) Approach Procedure, the operators shall ensure that they hold the all necessary operational approvals from Civil Aviation Authority of Nepal (CAAN).
- 2.2 The aircraft shall be equipped with GNSS as specified in Nepalese Flight Operations Requirements (FOR) and governed by the AIC 001/2011 dated 01 August 2011 (ATS Requirements for PBN in Nepalese Airspace)
- 2.3 All necessary navigation system are to installed onboard so as to keep the track keeping accuracy while commencing RNP1 SID and STAR, RNP Approach and associated Missed Approach.
- 2.4 Before commencing the procedure, pilot in command must ensure that the navigation database is current and the aircraft's capability of conducting the procedure like GNSS availability, system performance, etc.

### **3. NAMING OF RNAV (GNSS) APPROACH PROCEDURES**

There is one RNP1 STAR RWY09, one RNP 1 SID RWY27 and one RNP Approach (LNAV only) procedure to Biratnagar Runway 09 and are named in accordance with the ICAO naming convention as tabulated below.

| STAR                | SID                 | RNP Approach          |
|---------------------|---------------------|-----------------------|
| CHURE 2A<br>(RWY09) | LAUKI 1E<br>(RWY27) | RNP RWY09 (LNAV Only) |

### **4. RNP CAPABILITY LOST**

If the RNP APCH capability is lost, ATC shall be informed as soon as possible the alternate course of action from the pilots of the concerned aircraft.

**RNP RWY 09**

| <i>Serial No.</i> | <i>Path Descriptor</i> | <i>Waypoint Identifier</i> | <i>Fly-over</i> | <i>Course/Track (°M°T)</i> | <i>Magnetic Variation</i> | <i>Distance (NM)</i> | <i>Turn Direction</i> | <i>Altitude (ft)</i> | <i>Speed (kts)</i> | <i>VPA/TCH</i> | <i>Navigation Specification</i> |
|-------------------|------------------------|----------------------------|-----------------|----------------------------|---------------------------|----------------------|-----------------------|----------------------|--------------------|----------------|---------------------------------|
| 001               | IF                     | LAUKI (IAF)                | -               | -                          | -                         | -                    | -                     | +4000                | -                  | -              | RNP APCH                        |
| 002               | TF                     | INAWA                      | -               | 136°                       | -                         | 3.0                  | R                     | -                    | -                  | -              | RNP APCH                        |
| 003               | TF                     | VT202 (IF)                 | -               | 162°                       | -                         | 8.7                  | L                     | +1500                | - 180              | -              | RNP APCH                        |
| 004               | TF                     | VT204 (FAF)                | -               | 92 °                       | -                         | 3.0                  | -                     | +1300                | -                  | -              | RNP APCH                        |
| 004               | TF                     | RW09 (MAPt)                | Y               | 92 °                       | -                         | 3.2                  | -                     | @550                 | -                  | 3.00/50        | RNP APCH                        |
| 005               | DF                     | RANGA (MAHF)               | -               | -                          | -                         | -                    | L                     | +3000                | -                  | -              | RNP APCH                        |
| 006               | HM                     | RANGA (MAHF)               | -               | -                          | -                         | -                    | R                     | +3000                | - 160              | -              | RNP APCH                        |

**List way of Waypoints:**

|             |   |
|-------------|---|
| IAF(LAUKI)  | 26°39' 36.000" N/087°03' 07.800" E      |
| INAWA       | 26°37' 26.602" N/087°05' 27.702" E      |
| IF(VT202)   | 26°29' 11.3513" N/087°08' 30.1872" E    |
| FAF(VT204)  | 26°29' 04.3755" N /087°11' 50.7299" E   |
| RW09 (MAPt) | 26°28' 56.99301" N/ 087°15' 22.24677" E |
| MAHF(RANGA) | 26°30' 03.437" N/ 087°28' 17.242" E     |

**Coding Table: SID LAUKI 1E RWY 27**

| <i>Serial No.</i> | <i>Path Descriptor</i> | <i>Waypoint Identifier</i> | <i>Flyover</i> | <i>Course/Track (°M/°T)</i> | <i>Magnetic Variation</i> | <i>Distance (NM)</i> | <i>Turn Direction</i> | <i>Altitude (ft)</i> | <i>Speed (kts)</i> | <i>VPA/TCH</i> | <i>Navigation Specification</i> |
|-------------------|------------------------|----------------------------|----------------|-----------------------------|---------------------------|----------------------|-----------------------|----------------------|--------------------|----------------|---------------------------------|
| 001               | CA                     | -                          | -              | 272°                        | -                         | -                    | R                     | @700                 | -180               | -              | RNP-1                           |
| 002               | DF                     | LAUKI                      | -              | -                           | -                         | -                    | L                     | +4000                | -                  | -              | RNP-1                           |
| 003               | TF                     | CHURE                      | -              | 300 °                       | -                         | 24.7                 | -                     | +10500               | -                  | -              | RNP-1                           |

**List of Way points:**

|       |   |
|-------|---|
| DER   | 26°28' 56.99301" N/ 087°15' 22.24677" E |
| LAUKI | 26°39' 36.000" N/087°03' 07.800" E      |
| CHURE | 26°51'48.000" N/ 086°39'07.000" E       |

**Coding Table: CHURE 2A Arrival**

| <i>Serial No.</i> | <i>Path Descriptor</i> | <i>Waypoint Identifier</i> | <i>Fly-over</i> | <i>Course/Track (°M/°T)</i> | <i>Magnetic Variation</i> | <i>Distance (NM)</i> | <i>Turn Direction</i> | <i>Altitude (ft)</i> | <i>Speed (kts)</i> | <i>VPA/TCH</i> | <i>Navigation Specification</i> |
|-------------------|------------------------|----------------------------|-----------------|-----------------------------|---------------------------|----------------------|-----------------------|----------------------|--------------------|----------------|---------------------------------|
| 001               | IF                     | CHURE                      | -               | -                           | -                         | -                    | -                     | +10500               | -                  | -              | RNP-1                           |
| 002               | TF                     | HIMAL                      | -               | 127°                        | -                         | 9.4                  | L                     | +8500                | -                  | -              | RNP-1                           |
| 003               | TF                     | PINOR                      | -               | 115°                        | -                         | 9.8                  | -                     | +6000                | -                  | -              | RNP-1                           |
| 004               | TF                     | LAUKI                      | -               | 115°                        | -                         | 5.7                  | -                     | +4000                | -                  | -              | RNP-1                           |

**List of Way points:**

|       |                                     |
|-------|-------------------------------------|
| CHURE | 26°51'48.000" N / 086°39'07.000" E  |
| HIMAL | 26°46'05.314" N / 086°47'26.158" E  |
| PINOR | 26°41' 59.687" N / 086°57' 20.764"E |
| LAUKI | 26°39' 36.000" N/087°03' 07.800" E  |

**STANDARD ARRIVAL  
CHART- INSTRUMENT  
(STAR) -ICAO**

**AERODROME ELE.242'  
TRANSITION LEVEL: FL150  
TRANSITION ALTITUDE: 13500'**

**TWR 123.8**

**BIRATNAGAR/BIRATNAGAR  
AIRPORT (VNVT)  
RWY 09  
CHURE 2A**

86°40'0"E

86°50'0"E

87°0'0"E

27°0'0"N

27°0'0"N

- ALTITUDE, ELEVATION
- AND HEIGHTS IN FEET
- DISTANCES IN NM
- TRACK/ BEARING ARE MAGNETIC
- Mag.Var : 0 ° E

**CHURE**

10500'

2497

2697

1998

1191

3970

4990

2582

896

2182

6371

2979

1791

1384

2083

761

482

1699

2290

1598

1493

1296

1893

1158

594

991

727°

9.4 NM

**HIMAL**

8500'

115°

9.8 NM

INSTRUMENT  
APPROACH CHART-  
ICAO

AERODROME ELEV 242'  
HEIGHTS RELATED TO THR  
RWY 09-ELEV 242'

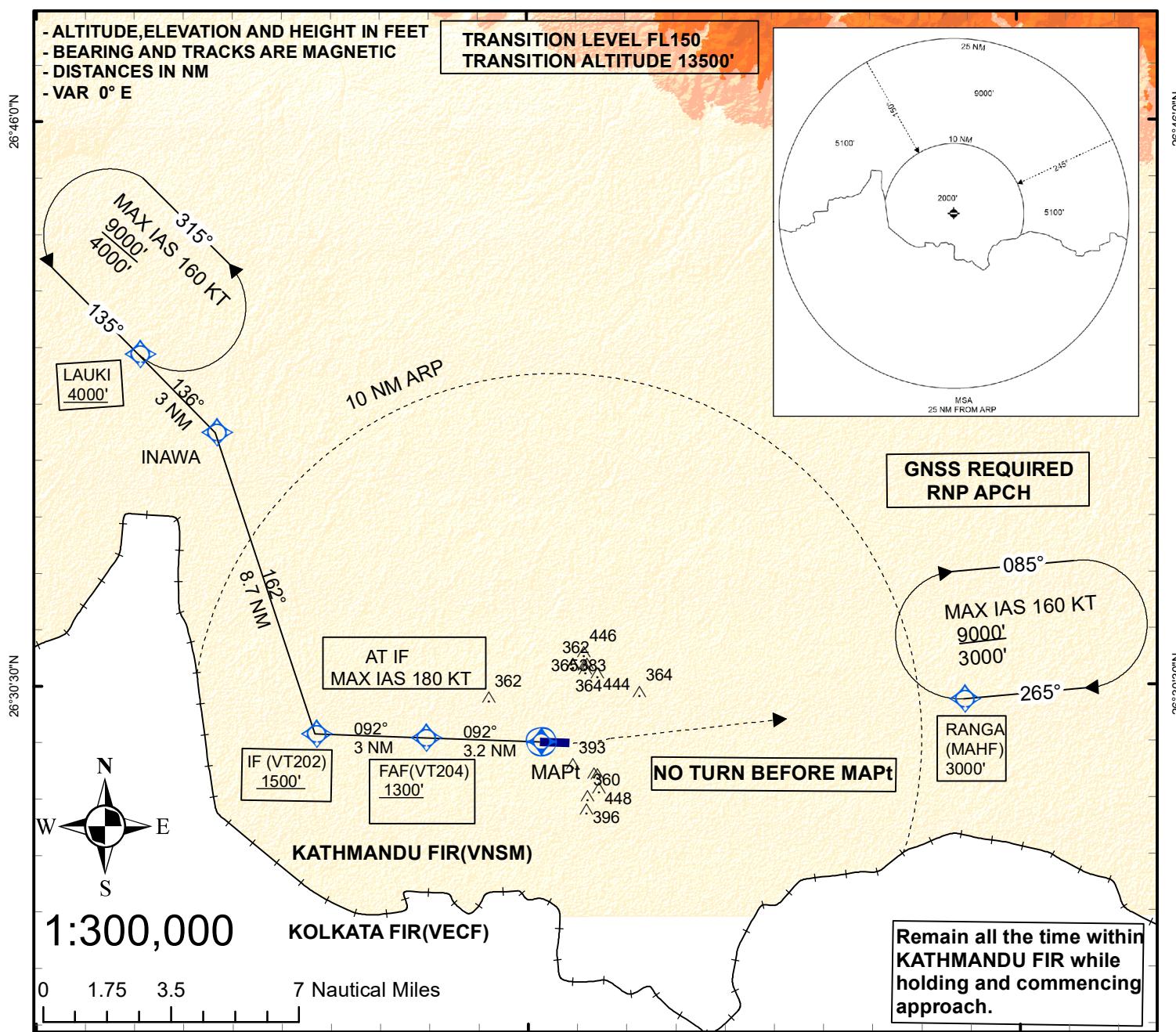
TWR  
123.8

BIRATNAGAR/BIRATNAGAR AIRPORT  
RNP RWY 09 (LNAV ONLY)

87°0'0"E

87°15'0"E

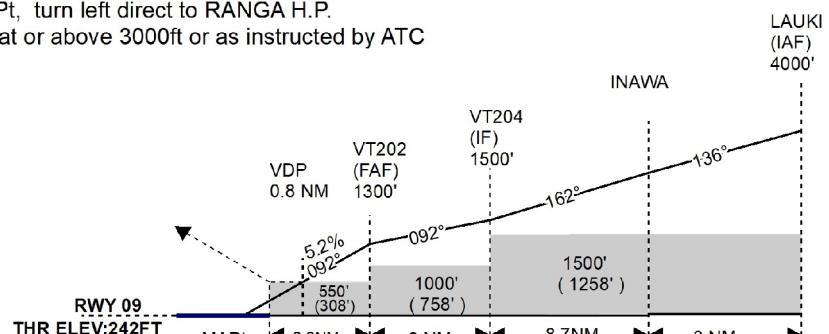
87°30'0"E



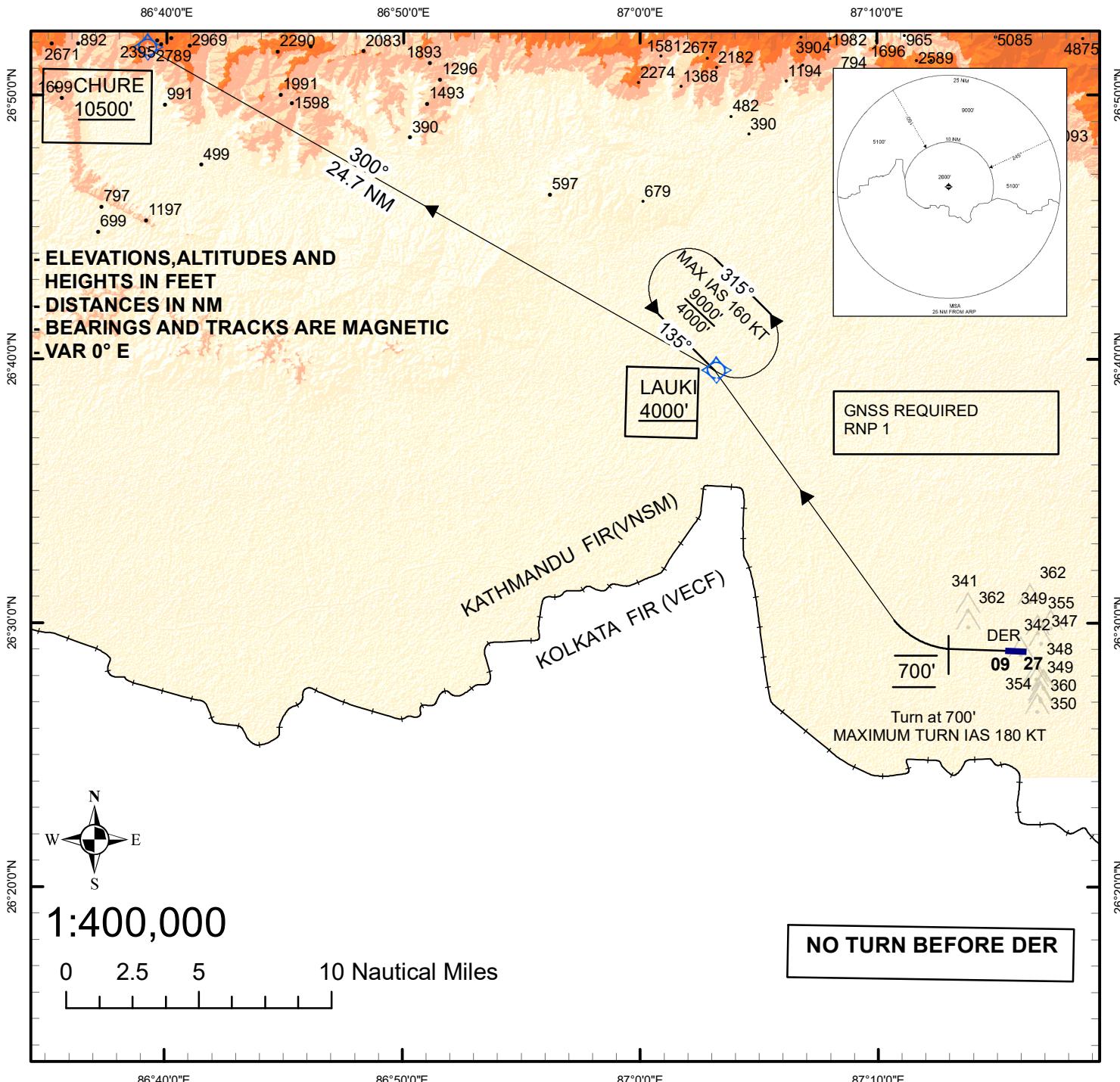
| LNAV                     | Aircraft Category |                      |                |            |                |            |
|--------------------------|-------------------|----------------------|----------------|------------|----------------|------------|
|                          | A                 |                      | B              |            | C              |            |
|                          | OCA (OCH)         | Visibility           | OCA (OCH)      | Visibility | OCA (OCH)      | Visibility |
| Straight-in              | 550'<br>(308')    | 1600m                | 550'<br>(308') | 1600m      | 550'<br>(308') | 1600m      |
| Straight-in<br>(ALS-OUT) | 550'<br>(308')    | 2000m                | 550'<br>(308') | 2000m      | 550'<br>(308') | 2000m      |
| Circling                 | 750'<br>(508')    | 2400m                | 750'<br>(508') | 2400m      | 840'<br>(598') | 2800m      |
| NOT AUTHORIZED AT NIGHT  |                   |                      |                |            |                |            |
|                          |                   | FAF TO MAPt : 3.2 NM |                |            |                |            |
| GS                       | 60                | 90                   | 120            | 150        | 180            |            |
| Min:Sec                  | 3:10              | 2:6                  | 1:35           | 1:16       | 1:30           |            |
| Feet/Minute@5.2%         | 320               | 480                  | 640            | 790        | 960            |            |

PAPI does not coincide with the final approach gradient

MISSED APPROACH: (Climb Gradient 3.9%)  
AT MAPt, turn left direct to RANGA H.P.  
Reach at or above 3000ft or as instructed by ATC

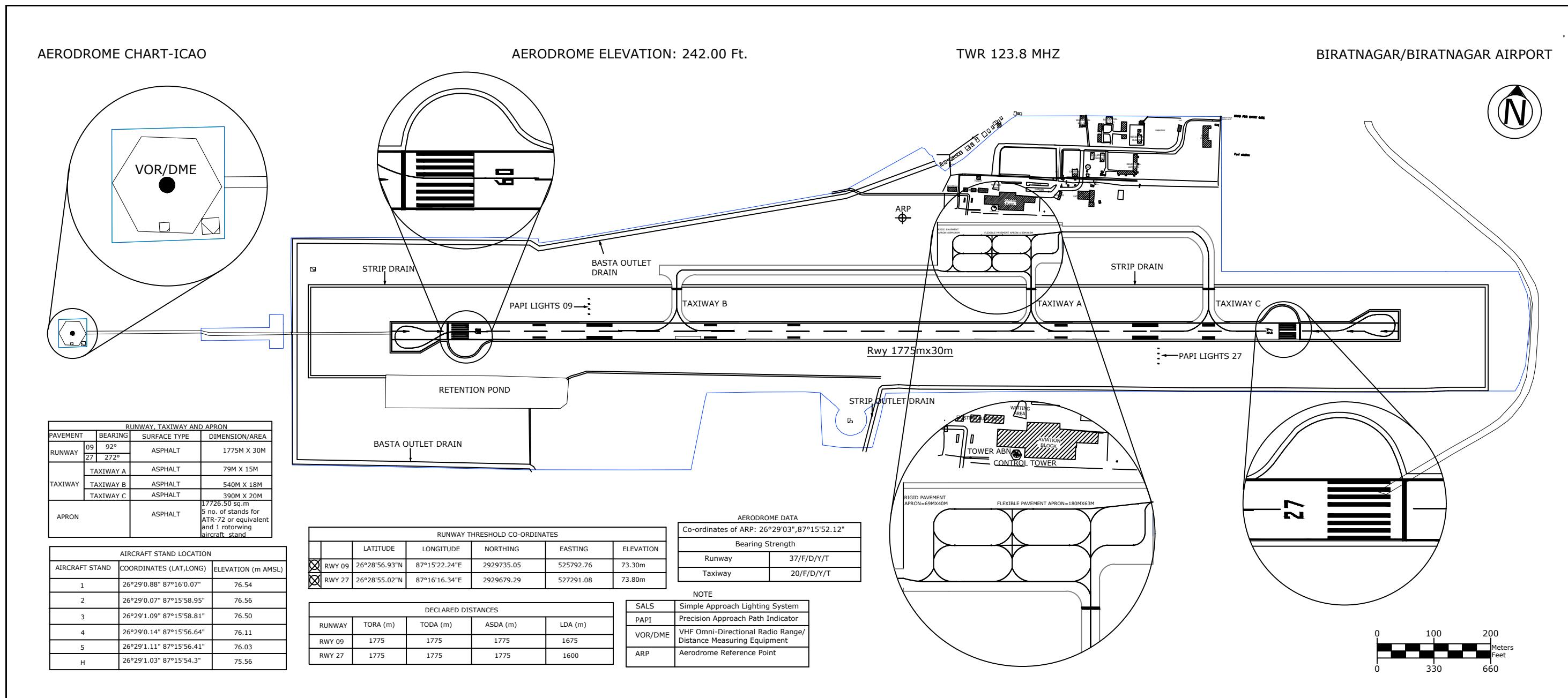


|  |  |                      |  |
|--|--|----------------------|--|
| <b>STANDARD<br/>DEPARTURE CHART-<br/>INSTRUMENT(SID)-<br/>ICAO</b> | <b>AERODROME ELEV:242'<br/>TRANSITION LEVEL: F150'<br/>TRANSITION ALT:13500'</b> | <b>TWR<br/>123.8</b> | <b>BIRATNAGAR/BIRATNAGAR AIRPORT(VNVT)<br/>RWY 27<br/>LAUKI 1E</b> |
|--|--|----------------------|--|



**MINIMUM VISIBILITY REQUIRED-1600m**

|  |
|--|
| <b>LAUKI 1E RWY 27 ( Climb Gradient 4.0 %)</b>                                   |
| Climb RWY heading to 700 ft then turn right direct to LAUKI at or above 4000 ft. |
| <b>Transition to route</b>   |
| To 344 : From LAUKI track 300 ° to CHURE at or above 10500ft                     |

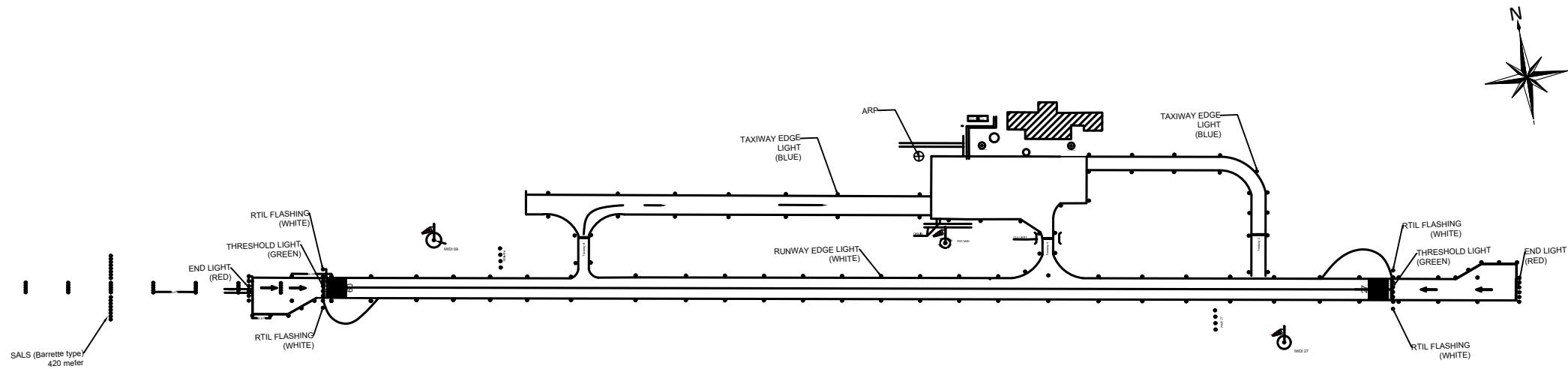


AERODROME CHART - ICAO

AERODROME ELEVATION - 242.00 FT.

TWR - 123.8 MHz

BIRATNAGAR AIRPORT  
AERONAUTICAL GROUND LIGHTING SYSTEM



Scale - 1:8000