

**AD 2. AERODROME****VNRB AD 2.1 AERODROME LOCATION INDICATOR AND NAME****VNRB – Rajbiraj/Domestic****VNRB AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

|    |                                                       |                                                                                                                                                |
|----|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | ARP Coordinates and site at AD                        | 263038N 0864417E                                                                                                                               |
| 2. | Direction and Distance from (city)                    | 4Km, South of Rajbiraj City                                                                                                                    |
| 3. | Elevation/Reference Temperature                       | 249 ft. (76m)                                                                                                                                  |
| 4. | MAG VAR/Annual Change                                 |                                                                                                                                                |
| 5. | AD Administration, address<br>Telephone, Telefax, AFS | Civil Aviation Authority of Nepal<br>Rajbiraj Civil Aviation Office, Rajbiraj, Saptari<br>Tel-977- 031-522458 (TWR)<br>Fax -<br>AFS - VNRBYDYX |
| 6. | Types of traffic permitted (IFR/VFR)                  | VFR                                                                                                                                            |
| 7. | Remarks                                               | -                                                                                                                                              |

**VNRB 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    | -                                                                                          |
| 3.  | Health and sanitation      | -                                                                                          |
| 4.  | AIS Briefing Office        | NIL                                                                                        |
| 5.  | ATS Reporting Office (ARO) | NIL                                                                                        |
| 6.  | MET Briefing               | -                                                                                          |
| 7.  | AFIS                       | 1) From 30 Jan - 01 Nov (0415 - 1115) UTC**<br>2) From 02 Nov - 29 Jan (0415 - 1015) UTC** |
| 8.  | Fuelling                   | -                                                                                          |
| 9.  | Handling (Cargo)           | -                                                                                          |
| 10. | Security                   | H-24                                                                                       |
| 11. | Remarks                    | -                                                                                          |

\* WGS 84 Coordinates

\*\*For operations other than above, Prior Co-ordination is required

**VNRB AD 2.4 HANDLING SERVICES AND FACILITIES**

|    |                                         |   |
|----|-----------------------------------------|---|
| 1. | Cargo-handling facilities               | - |
| 2. | Fuel/Oil Types                          | - |
| 3. | Fuelling facilities/capacity            | - |
| 4. | De-icing facilities                     | - |
| 5. | Hangar space for visiting aircraft      | - |
| 6. | Repair facilities for visiting aircraft | - |
| 7. | Remarks                                 | - |

**VNRB AD 2.5 PASSENGER FACILITIES**

|    |                      |                                  |
|----|----------------------|----------------------------------|
| 1. | Hotels               | In the city                      |
| 2. | Restaurants          | In the city                      |
| 3. | Transportation       | Taxi                             |
| 4. | Medical Facilities   | Hospital in the city             |
| 5. | Bank and Post Office | Bank and Post Office in the city |
| 6. | Tourist Office       | -                                |
| 7. | Remarks              | -                                |

**VNRB AD 2.6 RESCUE AND FIRE FIGHTING SERVICE**

|    |                                             |                                                                    |
|----|---------------------------------------------|--------------------------------------------------------------------|
| 1. | AD category for fire fighting               | Nil                                                                |
| 2. | Rescue equipment                            | Nil                                                                |
| 3. | Capability for removal of disabled aircraft | Nil                                                                |
| 4. | Remarks                                     | Fire Extinguishers (wheel type fire extinguishers also) Available. |

**VNRB AD 2.7 SEASONAL AVAILABILITY**

|                                         |
|-----------------------------------------|
| Aerodrome available throughout the year |
|-----------------------------------------|

**VNRB 2.8 APRONS, TAXIWAYS AND CHECK LOCATION DATA**

|    |                                              |                                            |
|----|----------------------------------------------|--------------------------------------------|
| 1. | Apron surface and strength                   | Asphalt Concrete                           |
| 2. | Taxiway width, surface and strength          | Width – 30m<br>Surface – Asphalt Concrete, |
| 3. | Altimeter check point location and elevation | -                                          |
| 4. | VOR/INS checkpoints                          | -                                          |
| 5. | Remarks                                      | -                                          |

### VNRB 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 | - |
| 2. | RWY and TWY markings and LGT                                                                                  | - |
| 3. | Stop bars                                                                                                     | - |
| 4. | Remarks                                                                                                       | - |

### VNRB AD 2.10 AERODROME OBSTACLES

| S. No. | Obstacle Name          | Obstacle ID | WGS-84 Coordinates |              | Elevation (m) |
|--------|------------------------|-------------|--------------------|--------------|---------------|
|        |                        |             | Latitude           | Longitude    |               |
| 1      | ATC Middle Antenna     | RB0001      | 26°30'38.6"N       | 86°44'16.6"E | 86.8          |
| 2      | ATC Tall Antenna       | RB0002      | 26°30'38.6"N       | 86°44'16.7"E | 92.4          |
| 3      | NDB                    | RB0003      | 26°30'40.1"N       | 86°44'12.6"E | 97            |
| 4      | NDB                    | RB0004      | 26°30'41"N         | 86°44'10.1"E | 97.           |
| 5      | Meteorological Antenna | RB0005      | 26°30'38.0"N       | 86°44'8.4"E  | 85.1          |
| 6      | Wind Shock             | RB0006      | 26°30'36.6"N       | 86°44'8.1"E  | 80.2          |
| 7      | Tree                   | RB0011      | 26°30'41.3"N       | 86°43'38.2"E | 83.9          |
| 8      | House Top              | RB0012      | 26°30'43.4"N       | 86°43'41.5"E | 80.1          |
| 9      | House Top              | RB0013      | 26°30'44.2"N       | 86°43'41.8"E | 82.4          |
| 10     | Tree                   | RB0014      | 26°30'43.7"N       | 86°43'40.9"E | 83.2          |
| 11     | Tree                   | RB0015      | 26°30'44"N         | 86°43'42.9"E | 83.3          |
| 12     | Bamboo                 | RB0017      | 26°30'44.5"N       | 86°43'45.4"E | 84.5          |
| 13     | Tree                   | RB0020      | 26°30'34.1"N       | 86°43'44.4"E | 85.1          |
| 14     | Tree                   | RB0025      | 26°30'12.2"N       | 86°44'39.6"E | 89.5          |
| 15     | Tree                   | RB0028      | 26°30'13.5"N       | 86°44'41.8"E | 86.6          |
| 16     | Tree                   | RB0029      | 26°30'17.8"N       | 86°44'41.3"E | 78.8          |
| 17     | Tree                   | RB0030      | 26°30'17.9"N       | 86°44'42.5"E | 80.5          |
| 18     | Tree                   | RB0031      | 26°30'13.4"N       | 86°44'45.7"E | 83.7          |
| 19     | Tree                   | RB0032      | 26°30'17.7"N       | 86°44'43.5"E | 81.5          |
| 20     | Tree                   | RB0033      | 26°30'12.3"N       | 86°44'44.1"E | 84.2          |
| 21     | Tree                   | RB0034      | 26°30'18.7"N       | 86°44'46.2"E | 82.4          |
| 22     | Electric Pole          | RB0035      | 26°30'18.2"N       | 86°44'50.3"E | 81.1          |
| 23     | Tree                   | RB0036      | 26°30'21.1"N       | 86°44'56.0"E | 82.2          |
| 24     | Tree                   | RB0037      | 26°30'23.9"N       | 86°44'46.2"E | 87.6          |
| 25     | Bamboo                 | RB0041      | 26°30'25.1"N       | 86°44'42.4"E | 89.5          |
| 26     | Tree                   | RB0045      | 26°30'23.8"N       | 86°44'40.2"E | 78            |
| 27     | Brick Chimney          | RB0049      | 26°30'2.4"N        | 86°44'59.0"E | 101.2         |
| 28     | Brick Chimney          | RB0050      | 26°29'55.8"N       | 86°45'2.6"E  | 99.5          |
| 29     | Brick Chimney          | RB0051      | 26°29'47.6"N       | 86°45'14.9"E | 90.4          |
| 30     | Brick Chimney          | RB0052      | 26°29'55"N         | 86°45'9.0"E  | 101.2         |
| 31     | Brick Chimney          | RB0053      | 26°30'6.1"N        | 86°45'4.5"E  | 96.8          |
| 32     | Brick Chimney          | RB0054      | 26°30'4.9"N        | 86°45'14.5"E | 95.5          |
| 33     | Brick Chimney          | RB0055      | 26°30'9.6"N        | 86°45'12.4"E | 94.8          |
| 34     | Brick Chimney          | RB0056      | 26°29'37.2"N       | 86°45'11"E   | 100           |

|    |               |        |              |              |       |
|----|---------------|--------|--------------|--------------|-------|
| 35 | Brick Chimney | RB0057 | 26°30'39.9"N | 86°45'20.0"E | 88.1  |
| 36 | Brick Chimney | RB0058 | 26°30'39"N   | 86°45'23.4"E | 96.1  |
| 37 | Brick Chimney | RB0059 | 26°30'37.4"N | 86°45'33.2"E | 96.1  |
| 38 | Brick Chimney | RB0060 | 26°30'49.9"N | 86°45'52.2"E | 103.4 |
| 39 | Brick Chimney | RB0061 | 26°30'42.5"N | 86°45'44.1"E | 102.2 |
| 40 | Telecom Tower | RB0062 | 26°30'27.5"N | 86°45'59.5"E | 99.9  |
| 41 | Telecom Tower | RB0063 | 26°30'11.3"N | 86°43'32.3"E | 96.0  |
| 42 | WIFI Antenna  | RB0064 | 26°30'11.6"N | 86°43'34.3"E | 90.5  |
| 43 | Tree          | RB0065 | 26°30'42.6"N | 86°43'31.5"E | 88.0  |
| 44 | Tree          | RB0066 | 26°30'43.8"N | 86°43'32.5"E | 88.9  |
| 45 | Tree          | RB0067 | 26°30'43.8"N | 86°43'32.5"E | 89.5  |
| 46 | Tree          | RB0068 | 26°30'44.6"N | 86°43'32.2"E | 88.5  |
| 47 | Tree          | RB0069 | 26°30'44.4"N | 86°43'37.2"E | 84.5  |
| 48 | Tree          | RB0070 | 26°30'46.2"N | 86°43'39.3"E | 90.4  |
| 49 | Tree          | RB0071 | 26°30'50"N   | 86°43'38.4"E | 98.1  |
| 50 | Tree          | RB0072 | 26°30'45.8"N | 86°43'40.1"E | 87.4  |
| 51 | Tree          | RB0073 | 26°30'48.7"N | 86°43'40.1"E | 94.3  |
| 52 | Tree          | RB0074 | 26°30'50"N   | 86°43'38.4"E | 97.7  |
| 53 | Tree          | RB0075 | 26°30'47.5"N | 86°43'40.6"E | 88.7  |
| 54 | Tree          | RB0076 | 26°30'52.1"N | 86°43'39.9"E | 98.9  |
| 55 | Tree          | RB0077 | 26°30'53.4"N | 86°43'38.3"E | 90.9  |
| 56 | Tree          | RB0078 | 26°30'43.5"N | 86°43'25.9"E | 94.0  |
| 57 | Tree          | RB0079 | 26°30'50"N   | 86°43'26.7"E | 86.9  |
| 58 | Telecom Tower | RB0080 | 26°32'18.7"N | 86°44'53.6"E | 110.9 |
| 59 | Telecom Tower | RB0081 | 26°32'18.7"N | 86°44'53"E   | 117.9 |
| 60 | Telecom Tower | RB0082 | 26°32'11.4"N | 86°44'50.6"E | 121.3 |
| 61 | Telecom Tower | RB0083 | 26°31'2.7"N  | 86°44'57.4"E | 100.8 |
| 62 | Telecom Tower | RB0084 | 26°31'30.3"N | 86°44'1.7"E  | 106.8 |
| 63 | Telecom Tower | RB0085 | 26°31'42.4"N | 86°43'42.9"E | 116.1 |
| 64 | Telecom Tower | RB0086 | 26°32'42.8"N | 86°44'55.5"E | 219.0 |
| 65 | Telecom Tower | RB0087 | 26°32'44.4"N | 86°44'55.3"E | 165.3 |
| 66 | Telecom Tower | RB0088 | 26°32'42.8"N | 86°44'55.5"E | 159.3 |

**VNRB AD 2.11 METEOROLOGICAL INFORMATION PROVIDED**

|    |                                                                     |   |
|----|---------------------------------------------------------------------|---|
| 1  | Associated MET Office                                               | - |
| 2  | Hours of service MET office outside hours                           | - |
| 3  | Office responsible for TAF preparation periods of validity          | - |
| 4  | Type of landing forecast interval of issuance                       | - |
| 5  | Briefing/Consultation provided                                      | - |
| 6  | Flight documentation language(s) used                               | - |
| 7  | Charts and other information available for briefing or consultation | - |
| 8  | Supplementary equipment available for providing information         | - |
| 9  | ATS units provided with information                                 | - |
| 10 | Additional information (limitation of service, etc.)                | - |

\* WGS 84 Coordinates

**VNRB AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS**

| Designation<br>RWY<br>NR | TRUE BRG              | Dimensions<br>of RWY (M) | Strength(PCN)<br>and surface of<br>RWY and<br>SWY | THR<br>Coordinates        | THR elevation and<br>Highest elevation of<br>TDZ of Precision APP<br>RWY |
|--------------------------|-----------------------|--------------------------|---------------------------------------------------|---------------------------|--------------------------------------------------------------------------|
| 1                        | 2                     | 3                        | 4                                                 | 5                         | 6                                                                        |
| 11                       | 113°                  | 1590 × 30                | Asphalt<br>Concrete                               | 263040.90N<br>0864349.88E | 75.9m (249 ft.)<br>AMSL                                                  |
| 29                       | 293°                  | 1590 × 30                | Asphalt<br>Concrete                               | 263022.02N<br>0864439.85E | 73.4m (241 ft.)<br>AMSL                                                  |
| Slope of<br>RWY-SWY      | SWY<br>Dimensions (M) | CWY<br>Dimensions (M)    | Strip<br>Dimensions (M)                           | OFZ                       | Remarks                                                                  |
| 7                        | 8                     | 9                        | 10                                                | 11                        | 12                                                                       |
| .....                    | .....                 | .....                    | .....                                             | .....                     | .....                                                                    |

**VNRB 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             | 1590        | 1590        | 1590        | 1590       |         |
| 29             | 1590        | 1590        | 1590        | 1500       |         |

**VNRB 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 Center<br>Line LGT<br>Length,<br>spacing color,<br>INTST | RWY edge<br>LGT LEN,<br>spacing color<br>INTST | RWY<br>End<br>LGT<br>color | SWY<br>LGT<br>LEN (M)<br>color | Remarks |
|-------------------|-------------------------------------|-----------------------------|----------------|-------------------|--------------------------------------------------------------|------------------------------------------------|----------------------------|--------------------------------|---------|
| 1                 | 2                                   | 3                           | 4              | 5                 | 6                                                            | 7                                              | 8                          | 9                              | 10      |
| 11                |                                     |                             | PAPI<br>3.00°  |                   |                                                              |                                                |                            |                                |         |
| 29                |                                     |                             | APAPI<br>3.00° |                   |                                                              |                                                |                            |                                |         |

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

|    |                                                      |   |
|----|------------------------------------------------------|---|
| 1. | ABN Location, characteristics and hours of operation | - |
| 2. | LDI Location and LGT Anemometer Location and LGT     | - |
| 3. | TWY edge and Centre line lighting                    | - |
| 4. | Secondary power supply / switch over time            | - |
| 5. | Remarks                                              | - |

## VNRB AD 2.16 HELICOPTER LANDING AREA

|               |
|---------------|
| Not specified |
|---------------|

## VNRB AD 2.17 ATS AIRSPACE

|                                     |                                                                                                                                                                                                                                                                                                                                                                                  |      |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1. Designation and lateral limits   | <b>Rajbiraj CTR</b> : An area bounded by Kathmandu FIR(VNSM) boundary from point 263554N 0862245E to 262726N 0865246E then along clockwise arc 20NM radius centered at point 262858N 0871458E (BRT VOR) to point 263747N 0865458E, 26 42 19N 0864459 E , 265031N, 0864109E then along anti-clockwise arc of 20 NM radius centered at 263038N 0864417E (ARP) to 263554N 0862245E. |      |
| 2. Vertical Limits                  | CTR:                                                                                                                                                                                                                                                                                                                                                                             | ATZ: |
|                                     | <u>7000' AMSL</u><br>GND                                                                                                                                                                                                                                                                                                                                                         |      |
| 3. Airspace classification          | C                                                                                                                                                                                                                                                                                                                                                                                |      |
| 4. ATS units call sign/languages(s) | Rajbiraj Tower/English                                                                                                                                                                                                                                                                                                                                                           |      |
| 5. Transition Altitude              | 13500 ft. AMSL                                                                                                                                                                                                                                                                                                                                                                   |      |
| 6. Remarks                          |                                                                                                                                                                                                                                                                                                                                                                                  |      |

## VNRB AD 2.18 ATS COMMUNIOICATION FACILITIES

| Service Designation | Call Sign      | Frequency        | Hours of Operation**                                                                   | Remarks |
|---------------------|----------------|------------------|----------------------------------------------------------------------------------------|---------|
| 1                   | 2              | 3                | 4                                                                                      | 5       |
| TWR                 | Rajbiraj Tower | VHF<br>122.5 MHZ | 1) From 30 Jan - 01 Nov (0415 - 1115) UTC<br>2) From 02 Nov - 29 Jan (0415 - 1015) UTC |         |

## VNRB AD 2.19 RADIO NAVIGATION AND LANDING AID

| Type of Aid | Identification | Frequency | OPR Hours | Coordinates | Remarks |
|-------------|----------------|-----------|-----------|-------------|---------|
| 1           | 2              | 3         | 4         | 5           | 6       |
| VOR/DME     | -              | -         | -         | -           | -       |

\* WGS 84 Coordinates

\*\*For operations other than above, Prior Co-ordination is required

**VNRB AD 2.20 LOCAL TRAFFIC REGULATIONS**

To be developed

**VNRB AD 2.21 NOISE ABATEMENT PROCEDURES**

NIL

## **VNRB AD 2.22 FLIGHT PROCEDURES**

NIL

## **VNRB AD 2.23 ADDITIONAL INFORMATION**

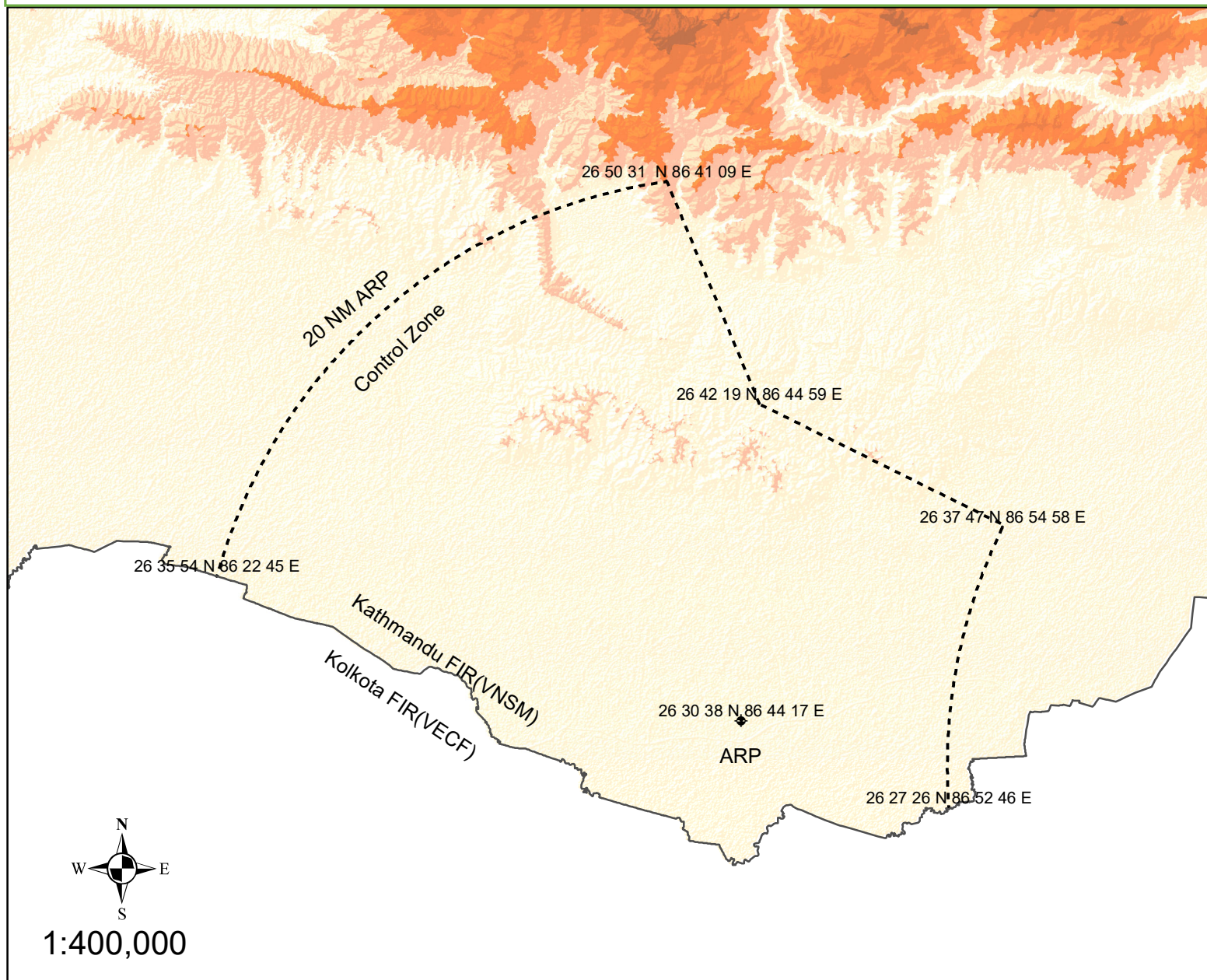
### **1. Bird Activity**

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

## **VNRB AD 2.24 CHARTS RELATED TO RAJBIRAJ AIRPORT**

|                                                             |                                    |
|-------------------------------------------------------------|------------------------------------|
| <b>Control Zone (CTR)</b>                                   | <b>VNRB AD 2-11</b>                |
| <b>RNAV GNSS approach procedure<br/>at Rajbiraj Airport</b> | <b>VNRB AD 2-12 - VNRB AD 2-16</b> |
| <b>Rajbiraj Airport Runway Chart</b>                        | <b>VNRB AD 2-17</b>                |

# Control Zone(CTR) Rajbiraj Airport



| AIRSPACE     | IDENT. | LATERAL LIMIT                                                                                                                                                                                                                                                                                                                                                 | VERTICAL LIMIT      |
|--------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Control Zone | CTR    | An area bounded by Kathmandu FIR(VNSM) boundary from point 263554N 0862245E to 262726N 0865246E then along clockwise arc 20NM radius centered at point 262858.2N 0871458.2E (BRT VOR) to point 263747N 0865458E, 26 42 19N 0864459 E , 265031N, 0864109E then along anti-clockwise arc of 20 NM radius centered at 263038N 0864417E (ARP) to 263554N 0862245E | 7000 ft AMSL<br>GND |

**RNAV GNSS flight procedures at Rajbiraj Airport (VNRB)****1. NAMING OF PROCEDURES**

There are one RNP1 STAR, two RNP1 SIDs and one RNP APCH procedures to Rajbiraj Runway 11/29 and are named in accordance with the ICAO naming convention as tabulated below.

| RWY | SIDs     | STARs    | APPROACH   |
|-----|----------|----------|------------|
| 11  | KHOPU 1A | AHALE 1A | RNP RWY 11 |
| 29  | KHOPU 1B |          |            |

**2. RNP CAPABILITY LOST**

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

**3. LIST OF WAYPOINTS:**

| <i>Waypoint Identifier</i> | <i>Coordinates</i> |               |
|----------------------------|--------------------|---------------|
| AHALE                      | 27°11'48.0"N       | 086°07'05.0"E |
| HAPTE                      | 27°03'52.6"N       | 086°06'41.5"E |
| MUKAR                      | 26°49'59.6"N       | 086°25'24.7"E |
| LANOB                      | 26°43'23.4"N       | 086°28'53.7"E |
| BHANA                      | 26°40'04.6"N       | 086°39'54.9"E |
| KHOPU                      | 26°42'04.8"N       | 086°39'31.1"E |
| SASRA                      | 27°01'48.9"N       | 086°23'07.4"E |
| RB101                      | 26°34'56.8"N       | 086°32'30.8"E |
| RB102                      | 26°32'37.9"N       | 086°38'39.5"E |
| MAPt                       | 26°30'40.9"N       | 086°43'49.9"E |

**4. CODING TABLE: AHALE 1A ARRIVAL**

| Serial No. | Path Descriptor | Waypoint Identifier | Fly-over | Course/Track (°M/°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (ft) | Speed (kts) | VPA/TCH | Navigation Specification |
|------------|-----------------|---------------------|----------|----------------------|--------------------|---------------|----------------|---------------|-------------|---------|--------------------------|
| 001        | IF              | AHALE               | -        | -                    | -                  | -             | -              | +11500        | -           | -       | RNP-1                    |
| 002        | TF              | HAPTE               | -        | 183°                 | -                  | 7.9           | L              | +9500         | -           | -       | RNP-1                    |
| 003        | TF              | MUKAR               | -        | 130°                 | -                  | 21.7          | R              | +7000         | -           | -       | RNP-1                    |
| 004        | TF              | LANOB               | -        | 155°                 | -                  | 7.3           | -              | +4500         | -           | -       | RNP-1                    |

### 5. CODING TABLE: RNP RWY 11

| Serial No. | Path Descriptor | Waypoint Identifier | Fly-over | Course/Track (°M/°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (ft)  | Speed (kts) | VPA/TCH | Navigation Specification |
|------------|-----------------|---------------------|----------|----------------------|--------------------|---------------|----------------|----------------|-------------|---------|--------------------------|
| 001        | IF              | LANOB (IAF)         | -        | -                    | -                  | -             | -              | +4500          | -           | -       | RNP APCH                 |
| 002        | TF              | RB101 (IF)          | -        | 159°                 | -                  | 9.0           | L              | @2500          | -           | -       | RNP APCH                 |
| 003        | TF              | RB102 (FAF)         | -        | 113°                 | -                  | 5.9           | -              | +1900          | -           | -       | RNP APCH                 |
| 004        | TF              | RW11 (MAPt)         | Y        | 113°                 | -                  | 5.0           | -              | @570           | -           | 3.00/50 | RNP APCH                 |
| 005        | CA              | RW11 (MAPt)         | -        | 113°                 | -                  | -             | L              | @ 700          | -           | -       | RNP APCH                 |
| 006        | DF              | BHANA (MAHF)        | -        | -                    | -                  | -             | -              | +2300          | -           | -       | RNP APCH                 |
| 007        | MH              | BHANA (MAHF)        | -        | -                    | -                  | -             | R              | -5000<br>+3000 | -160        | -       | -                        |

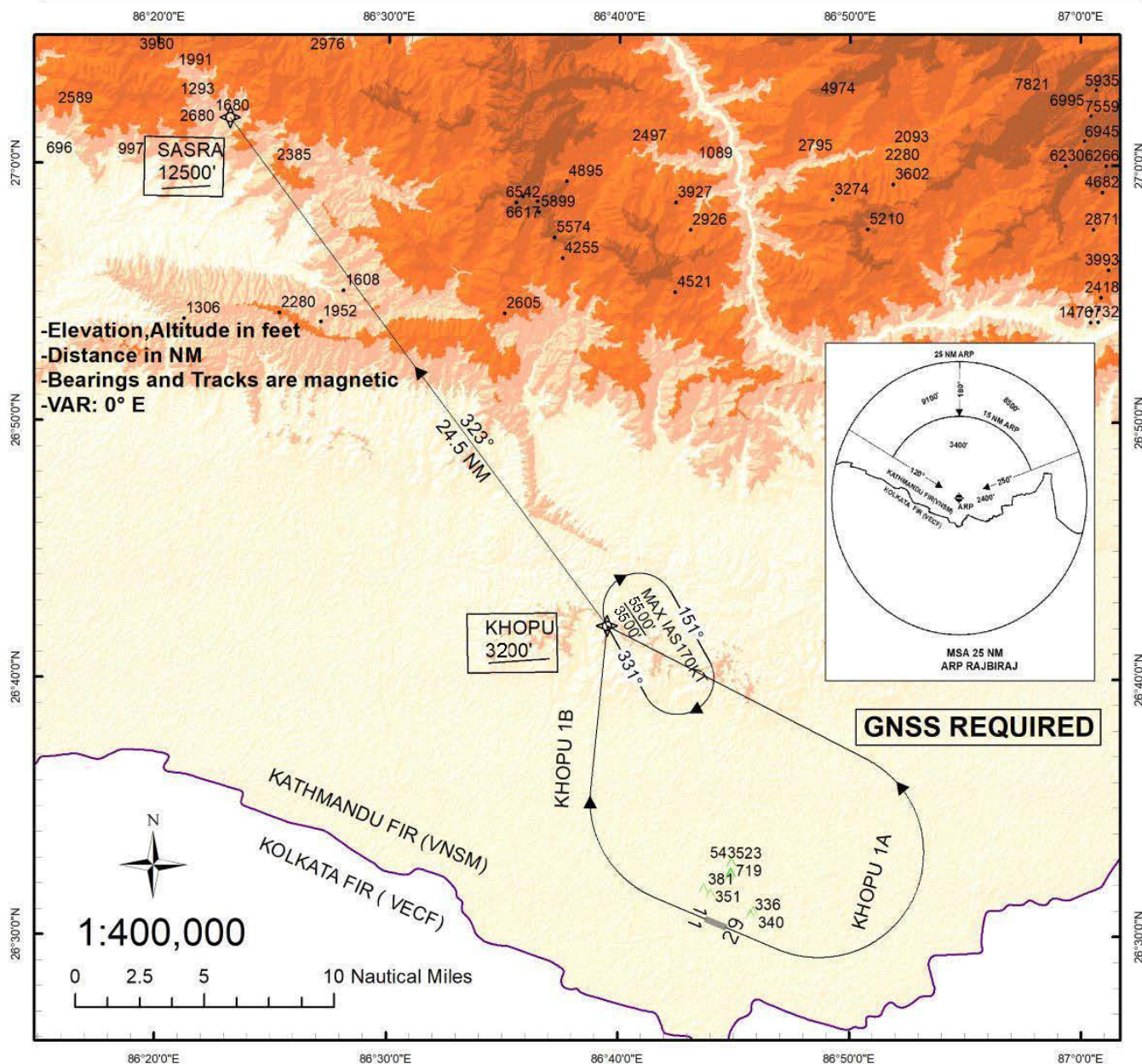
### 6. CODING TABLE: SID KHOPU 1A RWY 11

| Serial No. | Path Descriptor | Waypoint Identifier | Flyover | Course/Track (°M/°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (ft) | Speed (kts) | VPA/TCH | Navigation Specification |
|------------|-----------------|---------------------|---------|----------------------|--------------------|---------------|----------------|---------------|-------------|---------|--------------------------|
| 001        | CA              | -                   | -       | 113°                 | -                  | -             | L              | @700          | -           | -       | RNP-1                    |
| 002        | DF              | KHOPU               | -       | -                    | -                  | -             | -              | +3200         | -           | -       | RNP-1                    |
| 003        | TF              | SASRA               | -       | 323°                 | -                  | 24.5          | -              | +12500        | -           | -       | RNP-1                    |

### 7. CODING TABLE: SID KHOPU 1B RWY 29

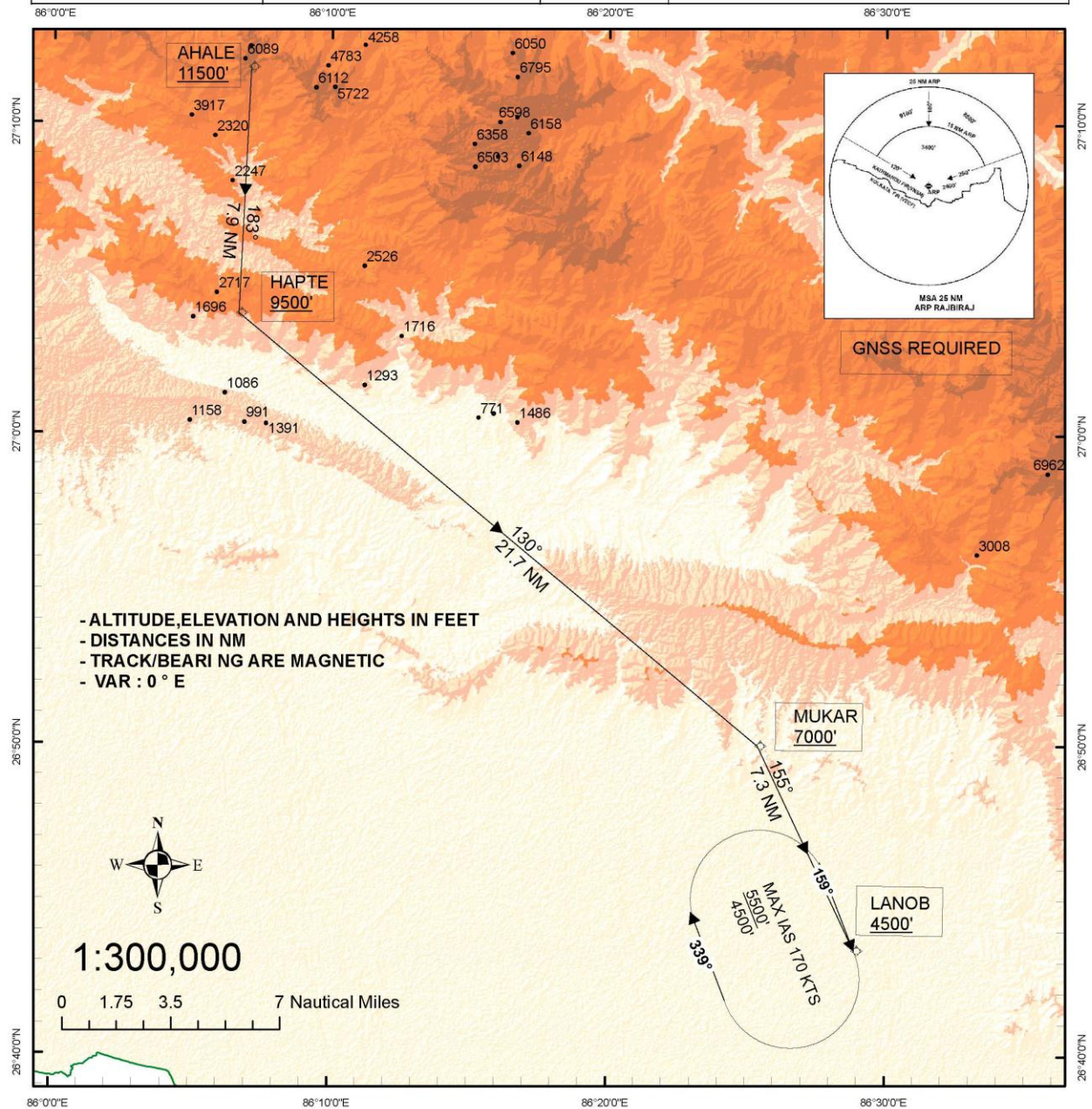
| Serial No. | Path Descriptor | Waypoint Identifier | Flyover | Course/Track (°M/°T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (ft) | Speed (kts) | VPA/TCH | Navigation Specification |
|------------|-----------------|---------------------|---------|----------------------|--------------------|---------------|----------------|---------------|-------------|---------|--------------------------|
| 001        | CA              | -                   | -       | 293°                 | -                  | -             | R              | @700          | -           | -       | RNP-1                    |
| 002        | DF              | KHOPU               | -       | -                    | -                  | -             | -              | +3200         | -           | -       | RNP-1                    |
| 003        | TF              | SASRA               | -       | 323°                 | -                  | 24.5          | -              | +12500        | -           | -       | RNP-1                    |

|                                                                        |                                                                                  |                      |                                                                                                             |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------|
| <b>STANDARD<br/>DEPARTURE<br/>CHART-<br/>INSTRUMENT(SID)-<br/>ICAO</b> | <b>AERODROME ELEV:249'<br/>TRANSITION LEVEL: F150'<br/>TRANSITION ALT:13500'</b> | <b>TWR<br/>122.5</b> | <b>RAJBIRAJ/RABIRAJ AIRPORT(VNRB)<br/>RWY 11/29<br/>RNP 1 SID<br/>KHOPU 1A (RWY11)<br/>KHOPU 1B (RWY29)</b> |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------|



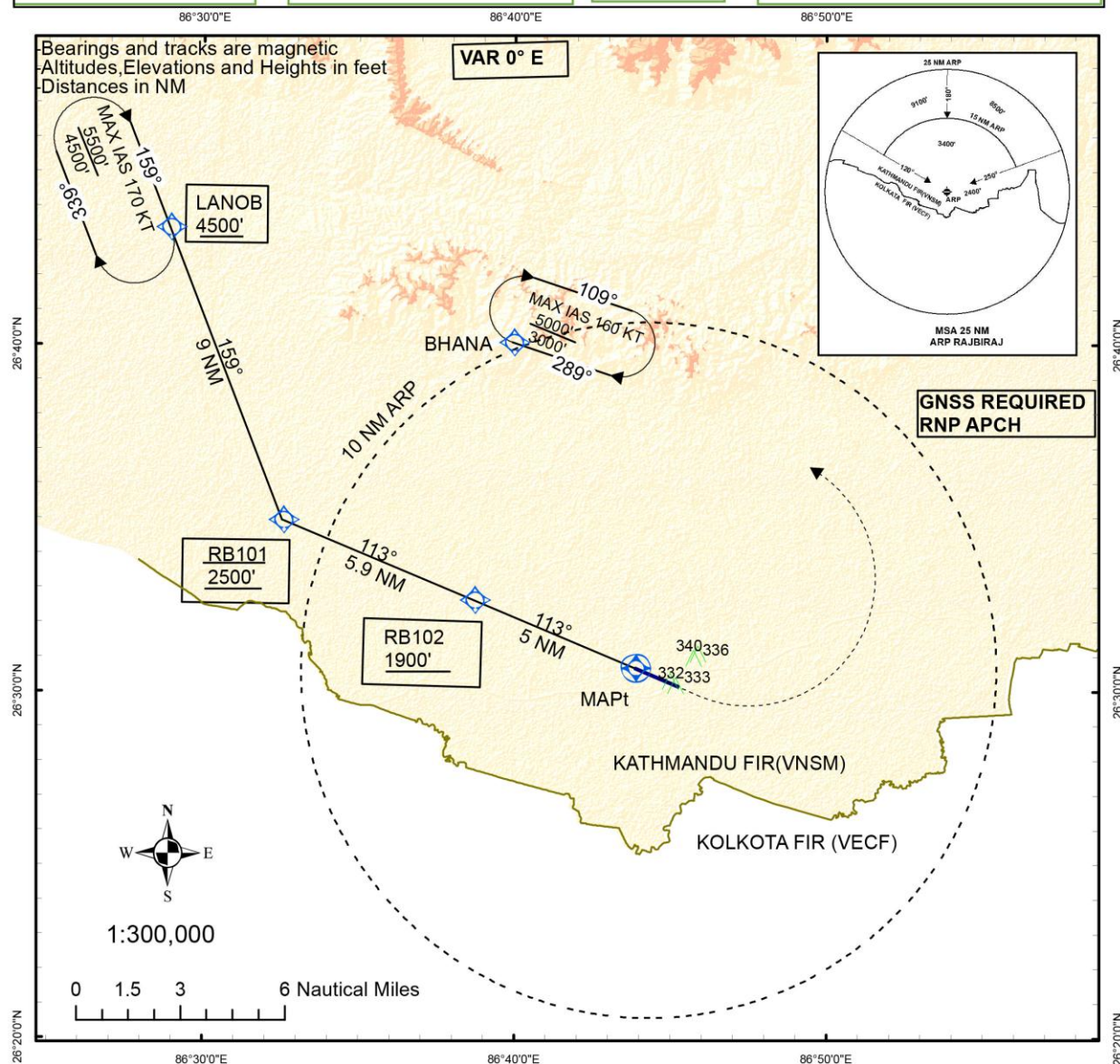
|                                                                                  |
|----------------------------------------------------------------------------------|
| <b>KHOPU 1A RWY 11( Climb Gradient 3.4 %)</b>                                    |
| Climb RWY heading to 700 ft then turn left direct to KHOPU at or above 3200 ft.  |
| <b>KHOPU 1B RWY 29( Climb Gradient 3.4 %)</b>                                    |
| Climb RWY heading to 700 ft then turn right direct to KHOPU at or above 3200 ft. |
| <b>Transition to route to R344</b>                                               |
| From KHOPU track 323° to SASRA at or above 12500ft                               |

|                                                         |                                                                               |              |                                                             |
|---------------------------------------------------------|-------------------------------------------------------------------------------|--------------|-------------------------------------------------------------|
| STANDARD ARRIVAL<br>CHART-<br>INSTRUMENT(STAR)-<br>ICAO | AERODROME ELE:249'<br>TRANSITION LEVEL:F150<br>TRANSITION<br>ALTITUDE:13500FT | TWR<br>122.5 | RAJBIRAJ/ RAJBIRAJ AIRPORT (VNRB)<br>RNP 1 STAR<br>AHALE 1A |
|---------------------------------------------------------|-------------------------------------------------------------------------------|--------------|-------------------------------------------------------------|



| RNP 1STAR | ROUTING                                                                                                                             |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------|
| AHALE 1A  | From AHALE descend to 9500 ft or above at HAPTE then descend to MUKAR at or above 7000 ft then descend to LANOB at or above 4500ft. |

|                                                |                                                                            |                      |                                                 |
|------------------------------------------------|----------------------------------------------------------------------------|----------------------|-------------------------------------------------|
| <b>INSTRUMENT<br/>APPROACH CHART-<br/>ICAO</b> | <b>AERODROME ELEV 249'<br/>HEIGHTS RELATED TO<br/>THR RWY 11-ELEV 249'</b> | <b>TWR<br/>122.5</b> | <b>RAJBIRAJ/RAJBIRAJ AIRPORT<br/>RNP RWY 11</b> |
|------------------------------------------------|----------------------------------------------------------------------------|----------------------|-------------------------------------------------|



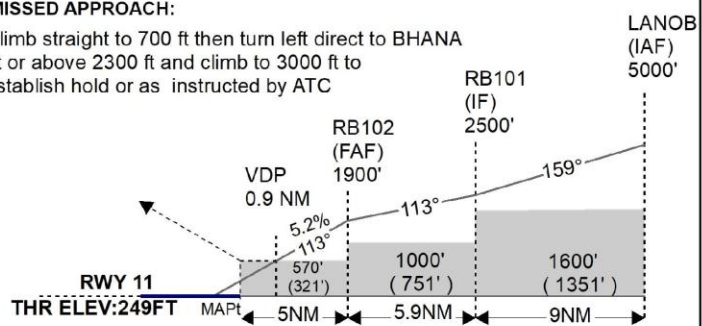
TRANSITION LEVEL : FL 150

TRANSITION ALT : 13500 FT

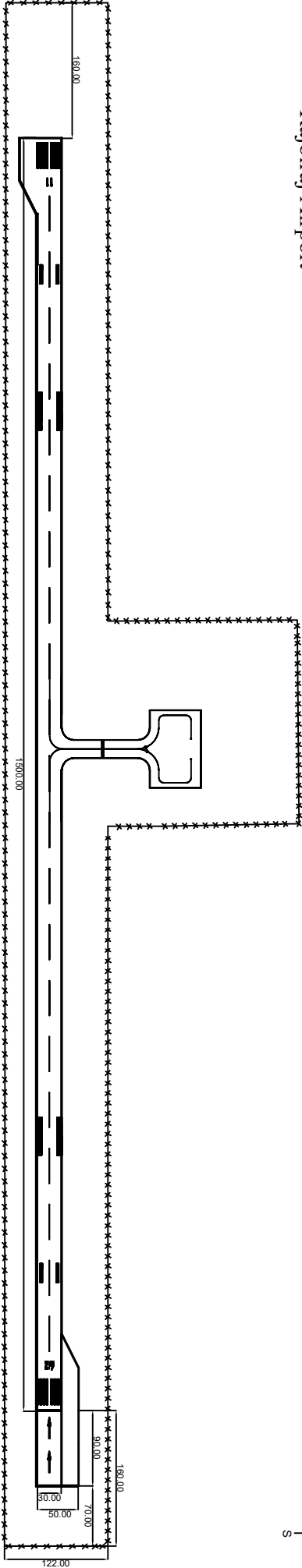
| LNAV                    | Aircraft Category |            |             |            |             |            |
|-------------------------|-------------------|------------|-------------|------------|-------------|------------|
|                         | A                 | B          | C           | D          | E           | F          |
|                         | OCA (OCH)         | Visibility | OCA (OCH)   | Visibility | OCA (OCH)   | Visibility |
| Straight-in             | 570' (321')       | 2000m      | 570' (321') | 2000m      | 570' (321') | 2000m      |
| Circling                | 650' (401')       | 2500m      | 760' (511') | 3000m      | 860' (611') | 3600m      |
| NOT AUTHORIZED AT NIGHT |                   |            |             |            |             |            |
| FAF TO MAPt : 5.0 NM    |                   |            |             |            |             |            |
| GS                      | 60                | 90         | 120         | 150        | 180         |            |
| Min:Sec                 | 5:02              | 3:22       | 2:31        | 2:01       | 1:41        |            |
| Feet/Minute@5.2%        | 320               | 480        | 640         | 790        | 960         |            |

#### MISSED APPROACH:

Climb straight to 700 ft then turn left direct to BHANA at or above 2300 ft and climb to 3000 ft to establish hold or as instructed by ATC



Civil Aviation Authority Of Nepal  
Rajbiraj Airport



VNRB AD 2.13 DECLARED DISTANCES

| RWY Designator | TORA (M) | TODA (M) | ASDA (M) | LDA (M) | Remarks |
|----------------|----------|----------|----------|---------|---------|
| 1              | 2        | 3        | 4        | 5       | 6       |
| 11             | 1590     | 1590     | 1590     | 1590    |         |
| 29             | 1590     | 1590     | 1590     | 1500    |         |

Rajbiraj Airport Runway Chart

All Dimensions are in Meter

| VNRB AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS |                   |                          |                               |                         |                                                                |
|----------------------------------------------|-------------------|--------------------------|-------------------------------|-------------------------|----------------------------------------------------------------|
| Designation<br>RWY                           | TRF E HRG<br>NR   | Dimensions<br>of RWY (M) | Strength (PCN)<br>RWY and SWY | TRF Conditions<br>RWY   | TRF Elevation and Highest<br>Elevation of TDZ of Precision APP |
| 1                                            | 2                 | 3                        | 4                             | 5                       | 6                                                              |
| 11                                           | 113 °             | 1590 x 30                | Asphalt Concrete              | 26/04/0N<br>0864549.88E | 75.9m (249 ft.) AMSL                                           |
| 29                                           | 114 °             | 1591 x 30                | Asphalt Concrete              | 26/02/0N<br>0864539.88E | 75.4m (247 ft.) AMSL                                           |
| Shape of Dimensions                          |                   |                          |                               |                         |                                                                |
| 7                                            | 8                 | 9                        | 10                            | 11                      | 12                                                             |
| SWY                                          | SWY               | SWY                      | SWY                           | SWY                     | SWY                                                            |
| Dimensions<br>(M)                            | Dimensions<br>(M) | Dimensions<br>(M)        | Dimensions<br>(M)             | Dimensions<br>(M)       | Dimensions<br>(M)                                              |