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|--|---|--|

## EFFECTIVE DATE : 9 JULY 2026

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## **RNP Approach Procedures at Simara Airport (VNSI)**

### **1. INTRODUCTION**

- 1.1 The following RNP1 SIDs/STARs and RNP APCH and associated Missed Approach Procedures are designed for VNSI in accordance with the criteria as stipulated in the ICAO PANS-OPS (DOC 8168 Vol. II).
- 1.2 The RNP1 SIDs/STARs and RNP APCH Procedures at VNNG is designed to enhance the safety and efficiency of the aircraft operations to materialize the National PBN Implementation Plan of Nepal.
- 1.3 One RNP approach procedure with LNAV Only along with four RNP1 STARs and four RNP1 SIDs have been designed utilizing GNSS as a navigation system as stipulated in ICAO PBN Manual DOC 9613.
- 1.4 A full arrival, approach and missed approach trajectories along with associated holding have been designed.

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

- 2.1 For the RNP1 SIDs/STARs, RNP APCH and associated Missed Approach, the operators shall ensure that they hold all necessary operational approval from Civil Aviation Authority of Nepal (CAAN).
- 2.2 The aircraft shall be equipped with GNSS as specified in Nepalese Flight Operations Requirements (FOR).
- 2.3 All necessary navigation systems are to be installed onboard so as to keep the track keeping accuracy while commencing RNP1, RNP APCH 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 PROCEDURES**

There are four RNP1 STARs, four RNP1 SIDs and one (RNP APCH LNAV Only) procedure for Simara Runway 08 and are named in accordance with the ICAO naming convention as tabulated below.

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

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

**5. List of Significant points:**

| Waypoint Identifier | Coordinates       |                    |
|---------------------|-------------------|--------------------|
| SI101               | 27°05' 10.4845" N | 084°57' 44.3405" E |
| SI102               | 27°01' 26.2673" N | 084°56' 50.4645" E |
| SI103               | 26°59' 43.6384" N | 085°05' 42.4350" E |
| GIVUB               | 27°08' 33.7062" N | 085°07' 40.7655" E |
| BEVSA               | 27°10' 22.3124" N | 084°50' 07.3572" E |
| SI106               | 27°03' 02.2037" N | 084°48' 30.2613" E |
| SI107               | 27°15' 10.6744" N | 085°00' 02.7435" E |
| SI201               | 27°01' 25.8375" N | 084°56' 50.3687" E |
| SI202               | 26°58' 29.9057" N | 085°05' 25.9960" E |
| SI203               | 27°08' 33.7062" N | 085°07' 40.7655" E |
| SI301               | 27°17' 20.1386" N | 084°46' 32.8958" E |
| ANDUG               | 27°25' 19.6441" N | 084°42' 23.8179" E |
| IDRAX               | 27°40' 39.1992" N | 084°50' 47.2149" E |
| AKNEB               | 27°35' 10.2974" N | 085°17' 07.6704" E |
| SI402               | 27°25' 08.3751" N | 085°09' 54.0239" E |
| ESKIG               | 27°40' 36.0845" N | 084°58' 23.7170" E |
| SI502               | 27°34' 37.2821" N | 084°55' 29.6494" E |
| SI503               | 27°21' 06.0322" N | 084°52' 29.7000" E |
| SI504               | 27°25' 08.0001" N | 085°04' 18.4083" E |
| RATAN               | 27°18' 06.0000" N | 085°10' 49.0000" E |

**6. CODING TABLE: STAR AKNEB 1A**

| 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              | ANKEB               | -        | -                    | -                  | -             | -              | +10500        | -           | -       | RNP-1                    |
| 002        | TF              | SI402               | -        | 212° (212.7°)        | -                  | 11.9          | -              | +9700         | -           | -       | RNP-1                    |
| 003        | TF              | RATAN               | -        | 173° (173.4°)        | -                  | 7.0           | -              | +8000         | -           | -       | RNP-1                    |
| 004        | TF              | GIVUB               | -        | 196° (196.3°)        | -                  | 9.9           | -              | +6500         | -           | -       | RNP-1                    |

**7. CODING TABLE: STAR AKNEB 1B**

| <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                     | ANKEB                      | -               | -                           | -                         | -                    | -                     | +10500               | -                  | -              | RNP-1                           |
| 002               | TF                     | SI402                      | -               | 212° (212.7°)               | -                         | 11.9                 | -                     | +9700                | -                  | -              | RNP-1                           |
| 003               | TF                     | SI503                      | -               | 255° (255.4°)               | -                         | 16.0                 | -                     | +7500                | -                  | -              | RNP-1                           |
| 004               | TF                     | BEVSA                      | -               | 191° (191.1°)               | -                         | 10.9                 | -                     | +3500                | -                  | -              | RNP-1                           |

**8. CODING TABLE: STAR ESKIG 1A**

| <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                     | ESKIG                      | -               | -                           | -                         | -                    | -                     | +10500               | -                  | -              | RNP-1                           |
| 002               | TF                     | SI502                      | -               | 203° (203.2°)               | -                         | 6.5                  | -                     | +10500               | -                  | -              | RNP-1                           |
| 003               | TF                     | SI503                      | -               | 191° (191.1°)               | -                         | 13.7                 | -                     | +7500                | -                  | -              | RNP-1                           |
| 004               | TF                     | BEVSA                      | -               | 191° (191.4°)               | -                         | 10.9                 | -                     | +3500                | -                  | -              | RNP-1                           |

**9. CODING TABLE: STAR ESKIG 1B**

| <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                     | ESKIG                      | -               | -                           | -                         | -                    | -                     | +10500               | -                  | -              | RNP-1                           |
| 002               | TF                     | SI502                      | -               | 203° (203.2°)               | -                         | 6.5                  | -                     | +10500               | -                  | -              | RNP-1                           |
| 003               | TF                     | SI504                      | -               | 140° (140.5°)               | -                         | 12.3                 | -                     | -                    | -                  | -              | RNP-1                           |
| 004               | TF                     | RATAN                      | -               | 140° (140.5°)               | -                         | 9.0                  | -                     | +10500               | -                  | -              | RNP-1                           |
| 005               | TF                     | GIVUB                      | -               | 196° (196.3°)               | -                         | 9.9                  | -                     | +6500                | -                  | -              | RNP-1                           |

**10. CODING TABLE: RNP RWY01**

| <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                     | BEVSA (IAF)                | -               |                             | 0.0°                      | -                    | -                     | +3500                | -                  | -              | RNP APCH                        |
| 002               | TF                     | SI106                      | -               | 191° (191.1°)               | 0.0°                      | 7.4                  | -                     | -                    | -                  | -              | RNP APCH                        |
| 003               | TF                     | SI102 (IF)                 | -               | 102° (102.0°)               | 0.0°                      | 7.6                  | -                     | +2000                | -                  | -              | RNP APCH                        |
| 001               | IF                     | GIVUB (IAF)                |                 |                             | 0.0°                      | -                    |                       | +6500                |                    |                | RNP APCH                        |
| 002               | TF                     | SI103                      | -               | 191° (191.0°)               | 0.0°                      | 9.0                  | -                     | -                    | -                  | -              | RNP APCH                        |
| 003               | TF                     | SI102 (IF)                 | -               | 282° (282°)                 | 0.0°                      | 8.1                  | -                     | +2000                | -                  | -              | RNP APCH                        |
| 001               | IF                     | SI102 (IF)                 | -               | -                           | 0.0°                      | -                    | -                     | +2000                | -                  | -              | RNP APCH                        |
| 002               | TF                     | SI101 (FAF)                | -               | 012° (012.0°)               | 0.0°                      | 3.8                  | -                     | +1800                | -                  | -              | RNP APCH                        |
| 003               | TF                     | RWY01 (MAPt)               | Y               | 012° (012.1°)               | 0.0°                      | 4.2                  | -                     | +467                 | -                  | 3.00/50        | RNP APCH                        |
| 004               | CA                     | RWY01 (MAPt)               | -               | 012° (012°)                 | 0.0°                      | -                    | L                     | @1000                | -                  | -              | RNP APCH                        |
| 005               | DF                     | BEVSA (MAHF)               | -               | -                           | 0.0°                      | -                    | -                     | +3300                | -                  | -              | RNP APCH                        |
| 006               | HM                     | BEVSA (MAHF)               | -               | 191° (191.1°)               | 0.0°                      | -                    | R                     | +3500                | 160                | -              | RNP1                            |

**11. CODING TABLE: RATAN 1A**

| <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               | CF                     | SI201                      | -               | 192°(192.1°)                | -                         | -                    | -                     | -                    | -                  | -              | RNP-1                           |
| 002               | TF                     | SI202                      | -               | 111°(110.9°)                | -                         | 8.2                  | -                     | -                    | -                  | -              | RNP-1                           |
| 003               | TF                     | SI203                      | -               | 011°(011.2°)                | -                         | 10.2                 | -                     | -                    | -                  | -              | RNP-1                           |
| 004               | TF                     | RATAN                      | -               | 016°(016.2°)                | -                         | 9.9                  | -                     | +10500               | -                  | -              | RNP-1                           |

**12. CODING TABLE: RATAN 1B**

| <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                     | -                          | -              | 192°(192.1°)                | 0.0                       | -                    | R                     | @1800                | -                  | -              | RNP-1                           |
| 002               | DF                     | BEVSA                      | -              | -                           | 0.0                       | -                    | R                     | +3300                | -                  | -              | RNP-1                           |
| 003               | TF                     | SI107                      | -              | 061°(061.1°)                | 0.0                       | 10.0                 | -                     | -                    | -                  | -              | RNP-1                           |
| 004               | TF                     | RATAN                      | -              | 073°(072.9°)                | 0.0                       | 10.0                 | -                     | +10500               | -                  | -              | RNP-1                           |

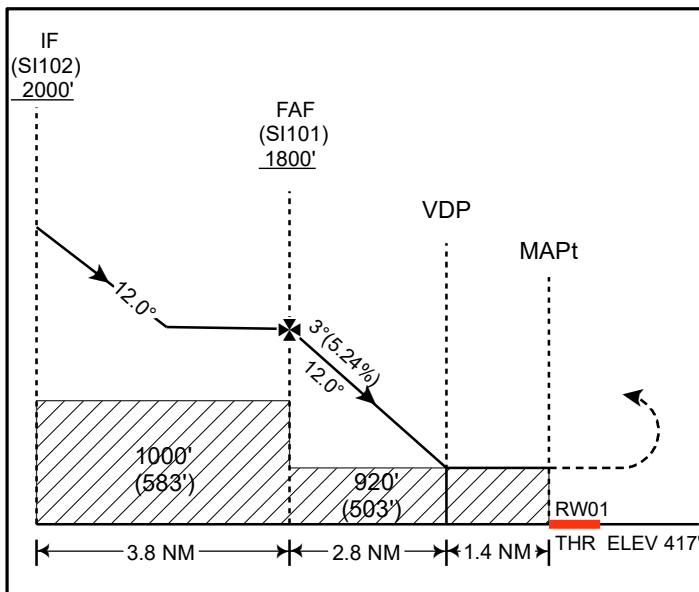
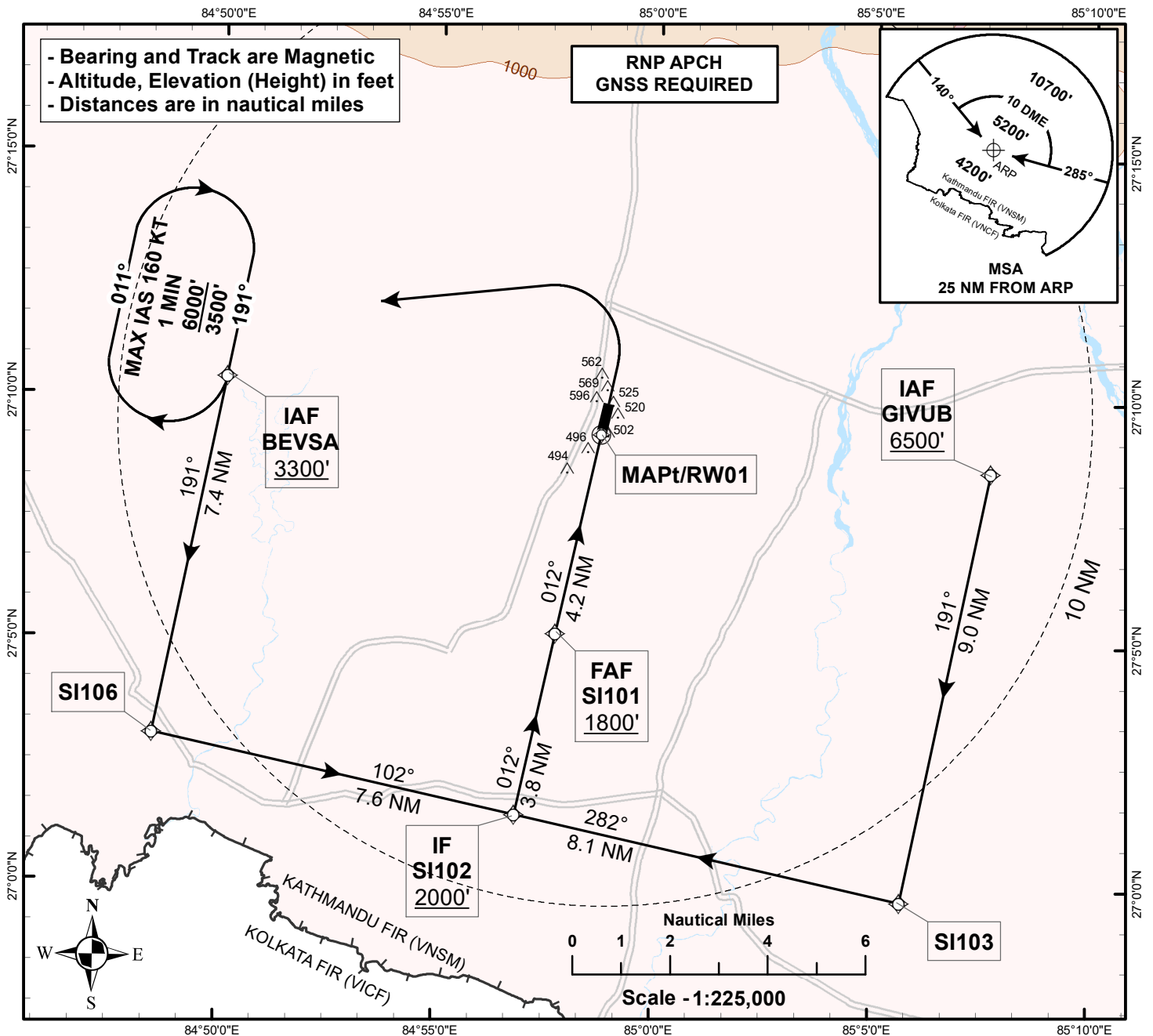
**13. CODING TABLE: IDRAX 1A**

| <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                     | -                          | -              | 192°(192.1°)                | 0.0                       | -                    | -                     | @900                 | -                  | -              | RNP-1                           |
| 002               | DF                     | SI301                      | -              | -                           | 0.0                       | -                    | R                     | -                    | -                  | -              | RNP-1                           |
| 003               | TF                     | SI302                      | -              | 335°(335.2°)                | 0.0                       | 8.8                  | R                     | -                    | -                  | -              | RNP-1                           |
| 004               | TF                     | IDRAX                      | -              | 026°(027.1°)                | 0.0                       | 17.0                 | -                     | +10500               | -                  | -              | RNP-1                           |

**14. CODING TABLE: ANDUG 1A**

| <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                     | -                          | -              | 192°(192.1°)                | 0.0                       | -                    | R                     | @900                 | -                  | -              | RNP-1                           |
| 002               | DF                     | SI301                      | -              | -                           | 0.0                       | -                    | R                     | -                    | -                  | -              | RNP-1                           |
| 003               | TF                     | SI302                      | -              | 335°(335.2°)                | 0.0                       | 8.7                  | -                     | +5500                | -                  | -              | RNP-1                           |

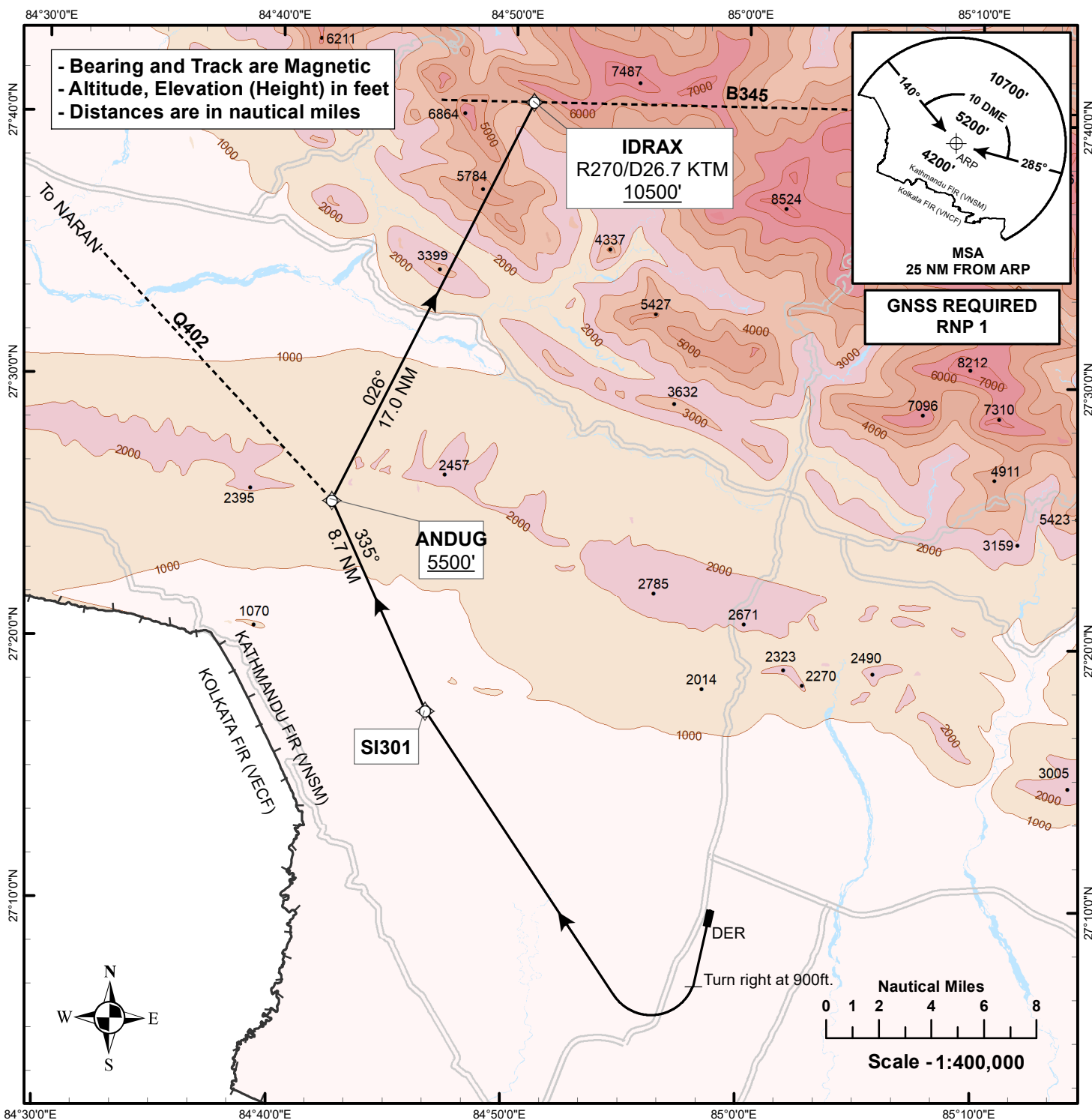
|                                       |  |                      |   |
|---------------------------------------|--|----------------------|---|
| <b>INSTRUMENT APPROACH CHART-ICAO</b> | <b>AERODROME ELEV 449'</b><br><b>TRANS LEVEL: FL150</b><br><b>TRANS ALT: 13500 ft.</b><br><b>Mag Var. 0°E (2012)</b> | <b>TWR 118.3 MHz</b> | <b>SIMARA, NEPAL (VNSI)</b><br><b>Simara, Airport</b><br><b>RNP RWY01</b> |
|---------------------------------------|--|----------------------|---|



**MISSED APPROACH:(Climb Gradient 5.0%)**  
 Climb straight ahead on course 012° at 1000ft turn left direct to **BEVSA** at or above 3300ft .If holding is required climb to 3500ft hold over **BEVSA** or as instructed by ATC.

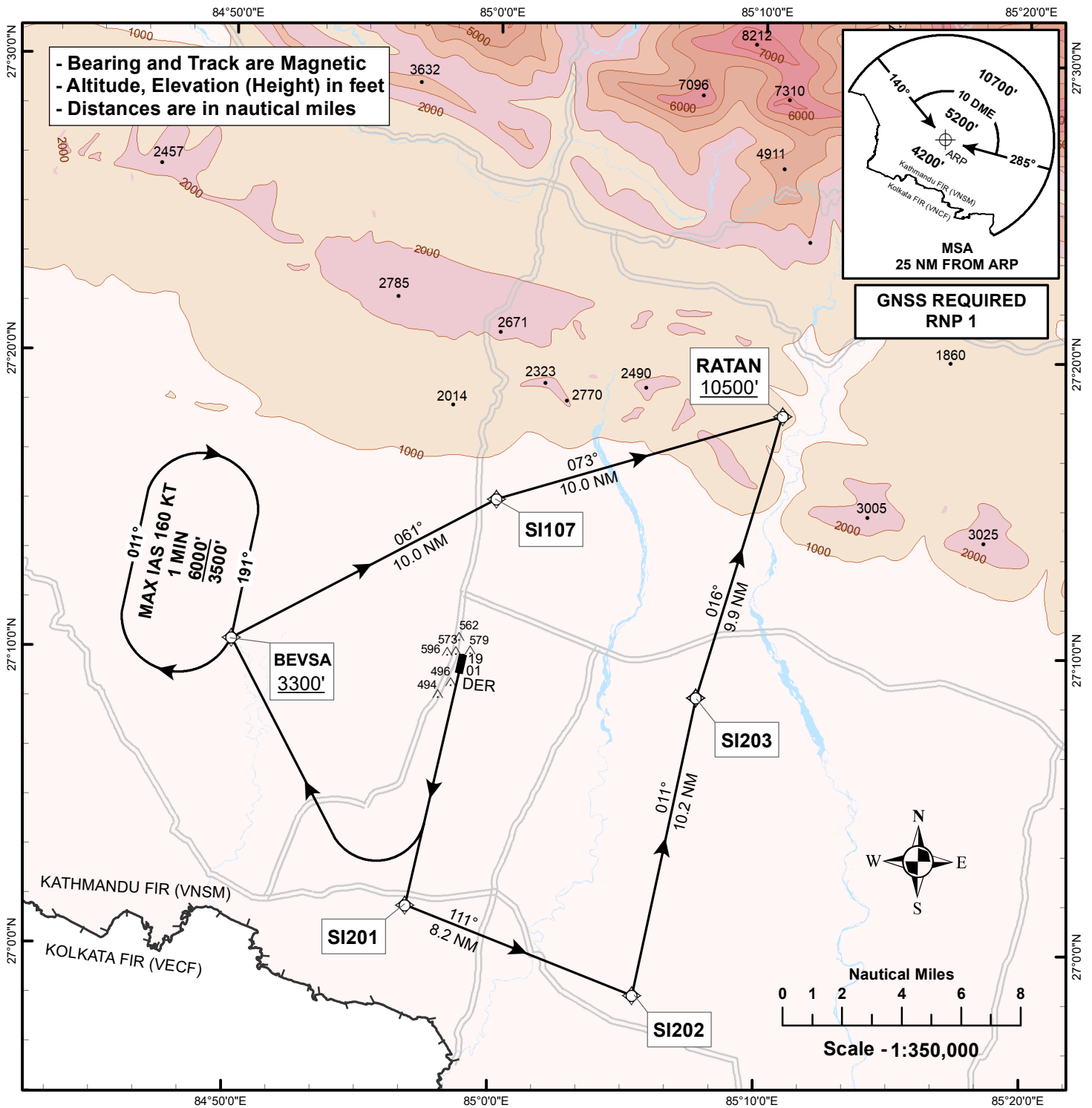
| RNP RWY 01(LNAV)                           |              | CAT-A        |      | CAT-B |      |
|--|--------------|--------------|------|-------|------|
| Straight-in-Approach                       | OCA (OCH)    | 920' (503')  |      |       |      |
|  | Visibility   | 2400m        |      |       |      |
| Circling                                   | OCA (OCH)    | 1090' (637') |      |       |      |
|  | Visibility   | 2600m        |      |       |      |
| <i>Circling is not authorized at Night</i> |              |              |      |       |      |
| <b>FAF TO MAPt: 4.2 NM</b>                 |              |              |      |       |      |
| Speed                                      | Knots        | 60           | 90   | 120   | 150  |
| Time                                       | Min:Sec      | 4:12         | 2:48 | 2:1   | 1:40 |
| Rate of Descent                            | Fit/min@5.2% | 319          | 478  | 637   | 796  |

|   |   |                             |   |
|---|---|-----------------------------|---|
| <p><b>STANDARD DEPARTURE<br/>CHART- INSTRUMENT<br/>(SID) - ICAO</b></p> | <p><b>AERODROME ELEV 449'<br/>TRANS LEVEL: FL150<br/>TRANS ALT: 13500 ft.<br/>Mag Var. 0°E (2012)</b></p> | <p><b>TWR 118.3 MHz</b></p> | <p><b>SIMARA, NEPAL (VNSI)<br/>Simara, Airport<br/>RNP1 SID RWY 19<br/>IDRAX 1A, ANDUG 1A</b></p> |
|---|---|-----------------------------|---|



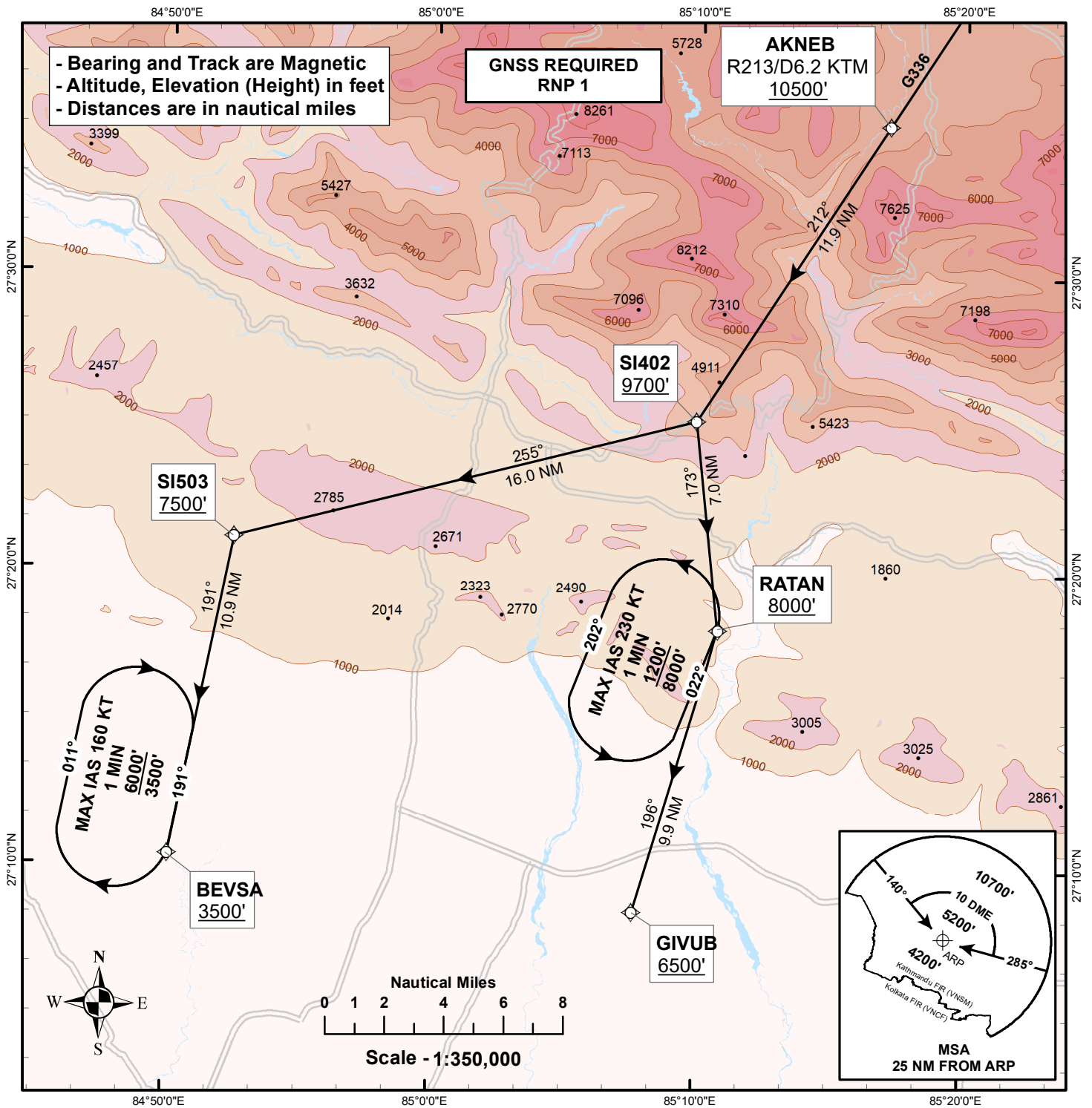
| SID  | ROUTING   |
|--|---|
| <p><b>IDRAX 1A Departure:<br/>(Climbing Gradient 4.0%)</b></p> | <p>Climb straight on runway course 192° at 900 ft turn right direct to SI301 then track on 335° to ANDUG then track 026° to IDRAX at or above 10500 ft.</p> |
| <p><b>ANDUG 1A Departure:<br/>(Climbing Gradient 3.3%)</b></p> | <p>Climb straight on runway course 192° at 900 ft turn right direct to SI301 then track on 335° to ANDUG at or above 5500 ft.</p>                           |

|   |  |               |  |
|---|--|---------------|--|
| STANDARD DEPARTURE<br>CHART- INSTRUMENT<br>(SID) - ICAO | AERODROME ELEV 449'<br>TRANS LEVEL: FL150<br>TRANS ALT: 13500 ft.<br>Mag Var. 0°E (2012) | TWR 118.3 MHz | SIMARA, NEPAL (VNSI)<br>Simara, Airport<br>RNP1 SID RWY 19<br>RATAN 1A, RATAN 1B |
|---|--|---------------|--|



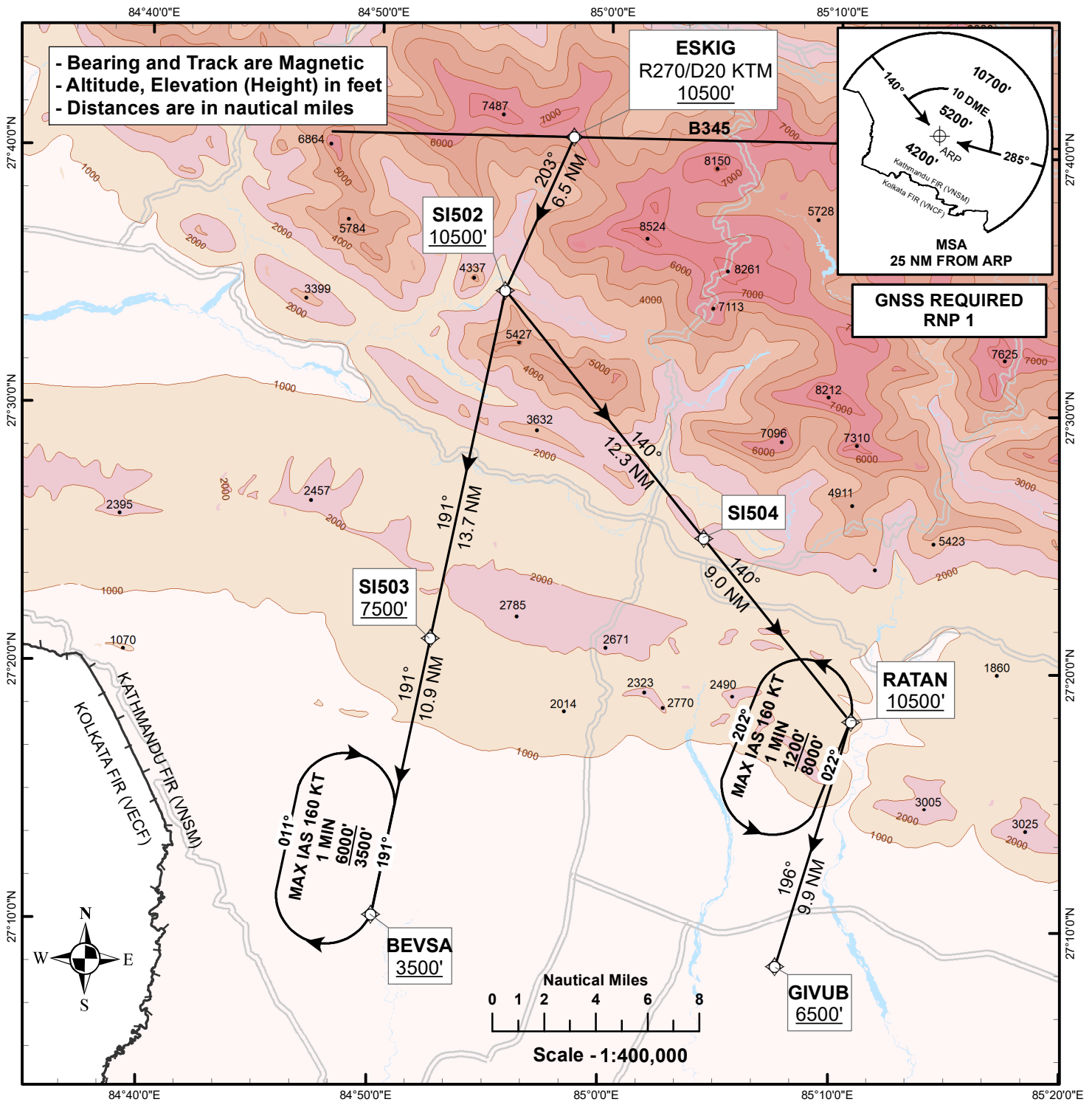
| SID                                      | ROUTING  |
|--|--|
| <b>RATAN 1A:</b><br>Climb Gradient 4.6 % | To SI201 on course 192° then to SI202 then to SI203 then to RATAN 10500 ft.  |
| <b>RATAN 1B :</b><br>Climb Gradient 5.0% | Climb straight on course 192° at 1800ft turn right direct to holding fix BEVSA at or above 3300 ft if holding is necessary continuous climb to 3500 ft,if holding is not required then t to waypoint SI107 then to RATAN at or above 10500 ft. |

|   |   |                             |   |
|---|---|-----------------------------|---|
| <p><b>STANDARD ARRIVAL<br/>CHART -<br/>INSTRUMENT<br/>(STAAR)- ICAO</b></p> | <p><b>AERODROME ELEV 449'<br/>TRANS LEVEL: FL150<br/>TRANS ALT: 13500 ft.<br/>Mag Var. 0°E (2012)</b></p> | <p><b>TWR 118.3 MHz</b></p> | <p><b>SIMARA, NEPAL (VNSI)<br/>Simara, Airport<br/>RNP1 STAR RWY01<br/>AKNEB 1A, AKNEB 1B</b></p> |
|---|---|-----------------------------|---|



| STAR                   | ROUTING  |
|------------------------|--|
| <p><b>AKNEB 1A</b></p> | <p>From AKNEB track 212° to SI402 at or above 9700 ft. then track 173° to RATAN at or above 8000 ft then track 196° to SI104 at or above 6500 ft.</p>  |
| <p><b>AKNEB 1B</b></p> | <p>From AKNEB track 212° to SI402 at or above 10500 ft. then track 255° to SI503 at or above 7500 ft then track 191° to SI105 at or above 3500 ft.</p> |

|   |  |                      |  |
|---|--|----------------------|--|
| <b>STANDARD ARRIVAL<br/>CHART -<br/>INSTRUMENT<br/>(STAR)- ICAO</b> | <b>AERODROME ELEV 449'<br/>TRANS LEVEL: FL150<br/>TRANS ALT: 13500 ft.<br/>Mag Var. 0°E (2012)</b> | <b>TWR 118.3 MHz</b> | <b>SIMARA, NEPAL (VNSI)<br/>Simara, Airport<br/>RNP1 STAR<br/>ESKIG 1A, ESKIG 1B</b> |
|---|--|----------------------|--|



| STAR            | ROUTING   |
|-----------------|---|
| <b>ESKIG 1A</b> | From <b>ESKIG</b> track 203° to SI502 at or above 10500 ft then track 191° to SI503 at or above 7500 ft then track on 191° to <b>BEVSA</b> at or above 3500 ft.                       |
| <b>ESKIG 1B</b> | From <b>ESKIG</b> track 203° to SI502 at or above 10500 ft then track 140° to SI504 then track on 140° to <b>RATAN</b> at or above 10500 ft then to <b>GIVUB</b> at or above 6500 ft. |