

AD 2. AERODROME**VNVN AD 2.1 AERODROME LOCATION INDICATOR AND NAME****VNVN – BIRATNAGAR / Domestic****VNVN 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	75m. /246ft., 40°C (June)
4.	MAG VAR/Annual Change	0 ° W
5.	AD Administration, address Telephone, Telefax, Telex AFS	Civil Aviation Authority of Nepal Biratnagar Civil Aviation Office, Biratnagar, Morang Tel- 977-021-461641, 977-021- 461424 Fax - 977-021- 460155 AFS - VNVN TYDYX, VNVN TZTZX
6.	Types of traffic permitted (IFR/VFR)	IFR / VFR
7.	Remarks	-

VNVN AD 2.3 OPERATIONAL HOURS

1.	AD Administration	SUN-THU 10:00 -17:00 LT (SUMMER), 10:00-1600 LT (WINTER), 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	1) From 16 Feb - 15 Nov (0015 - 1300) UTC** 2) From 16 Nov - 15 Feb (0045 - 1215) UTC**
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

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

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	Storage Capacity (KL): Physical -210, Mobile-22 Storage Type: UG Tank (70×3) Refueller Details: 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 (Sunrise Bank) Availbale
6.	Tourist Office	In the city.
7.	Remarks	-

VNVT AD 2.6 RESCUE AND FIRE FIGHTING SERVICE

1.	AD Category for firefighting	Category V
2.	Rescue equipment	2 Fire Vehicle, 2 Ambulance, Fire extinguisher and Complementary Extinguishing Agents available.
3.	Capability for removal of disabled aircraft	NIL
4.	Remarks	-

VNVT AD 2.7 SEASONAL AVAILABILITY

Aerodrome is available throughout the year.

VNVT AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATION DATA

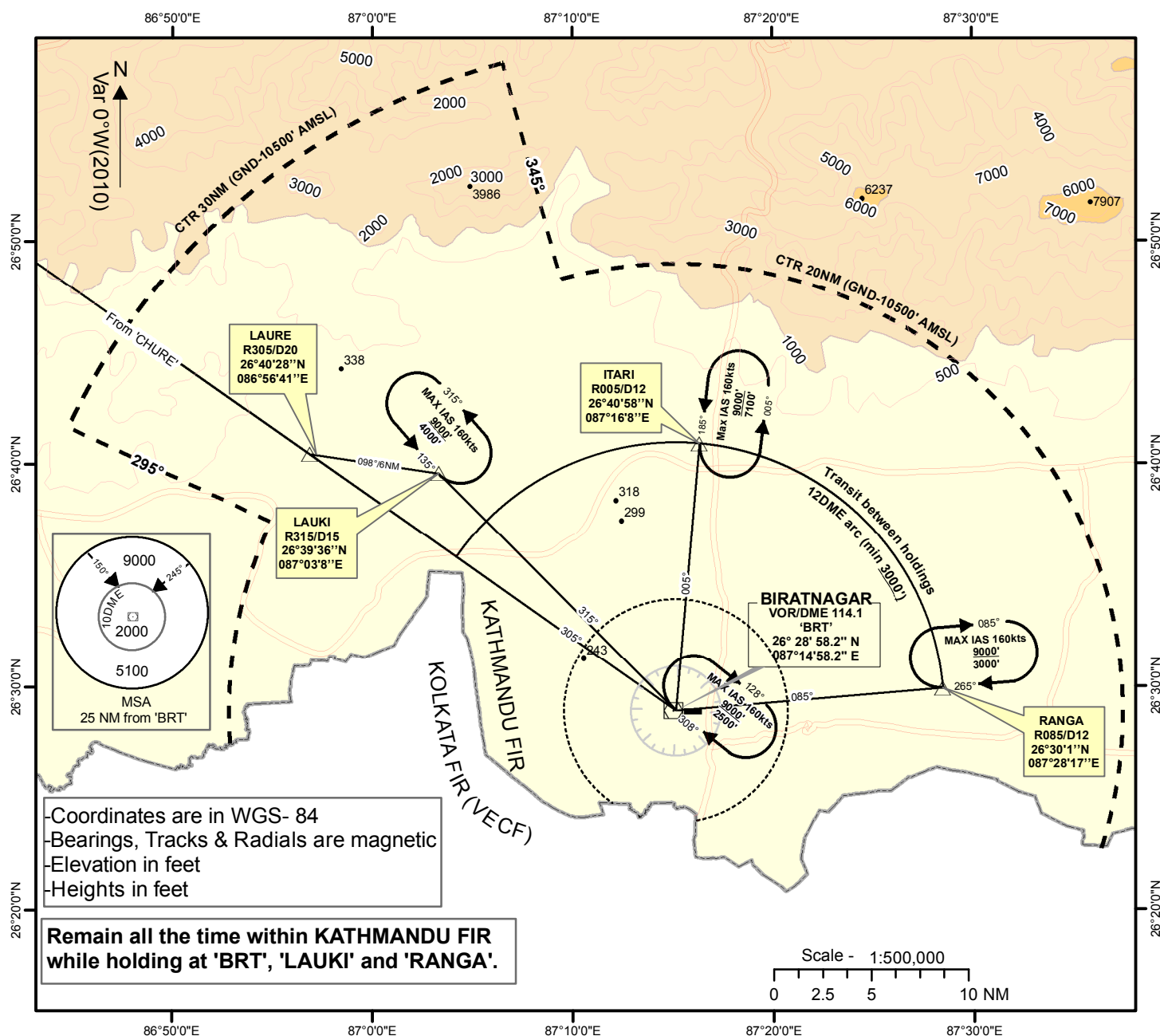
1.	Apron surface and strength	Surface - Asphalt Concrete, Strength - ...
2.	Taxiway width, surface and strength	Width -TWY A 17m, TWY B 16m, Surface - Bitumen Strength - 20/F/D/Y/T
3.	Altimeter check point location and elevation	Location: - At Apron Elevation:- 246 ft.
4.	VOR/DME checkpoints	VOR:- Taxi holding position.
5.	Remarks	Total APRON area = Flexible 180m × 63m + Rigid 69m x 40m

AERODROME ELEV 246'
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

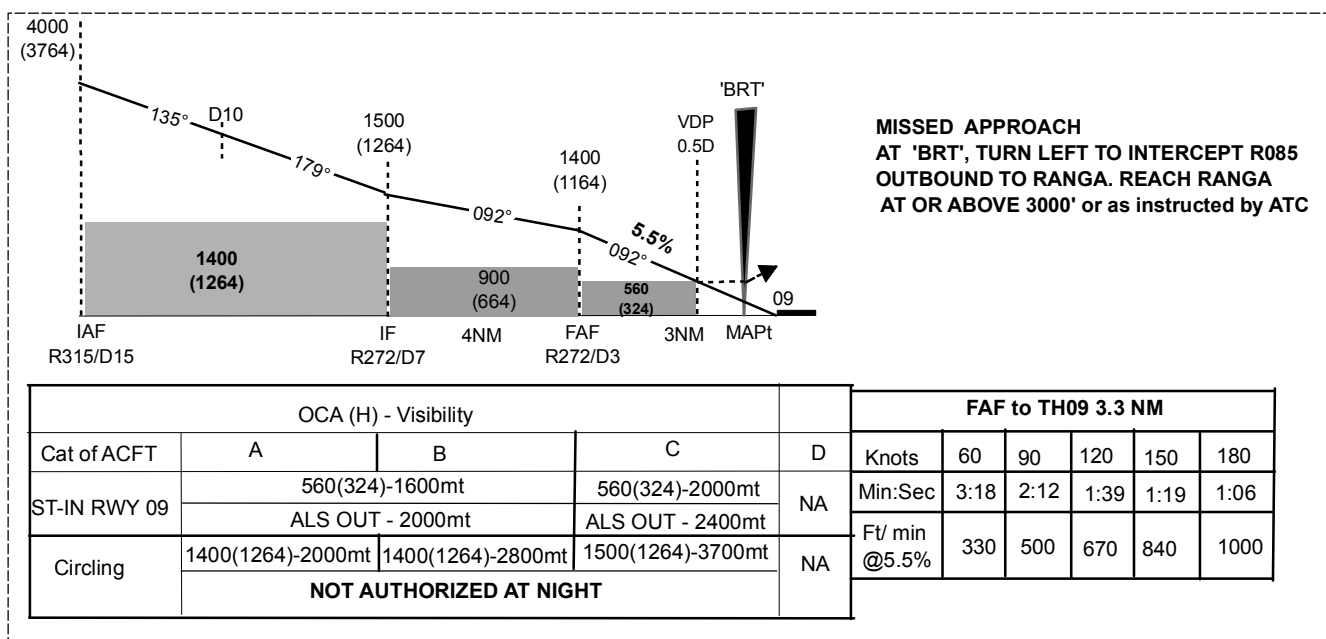
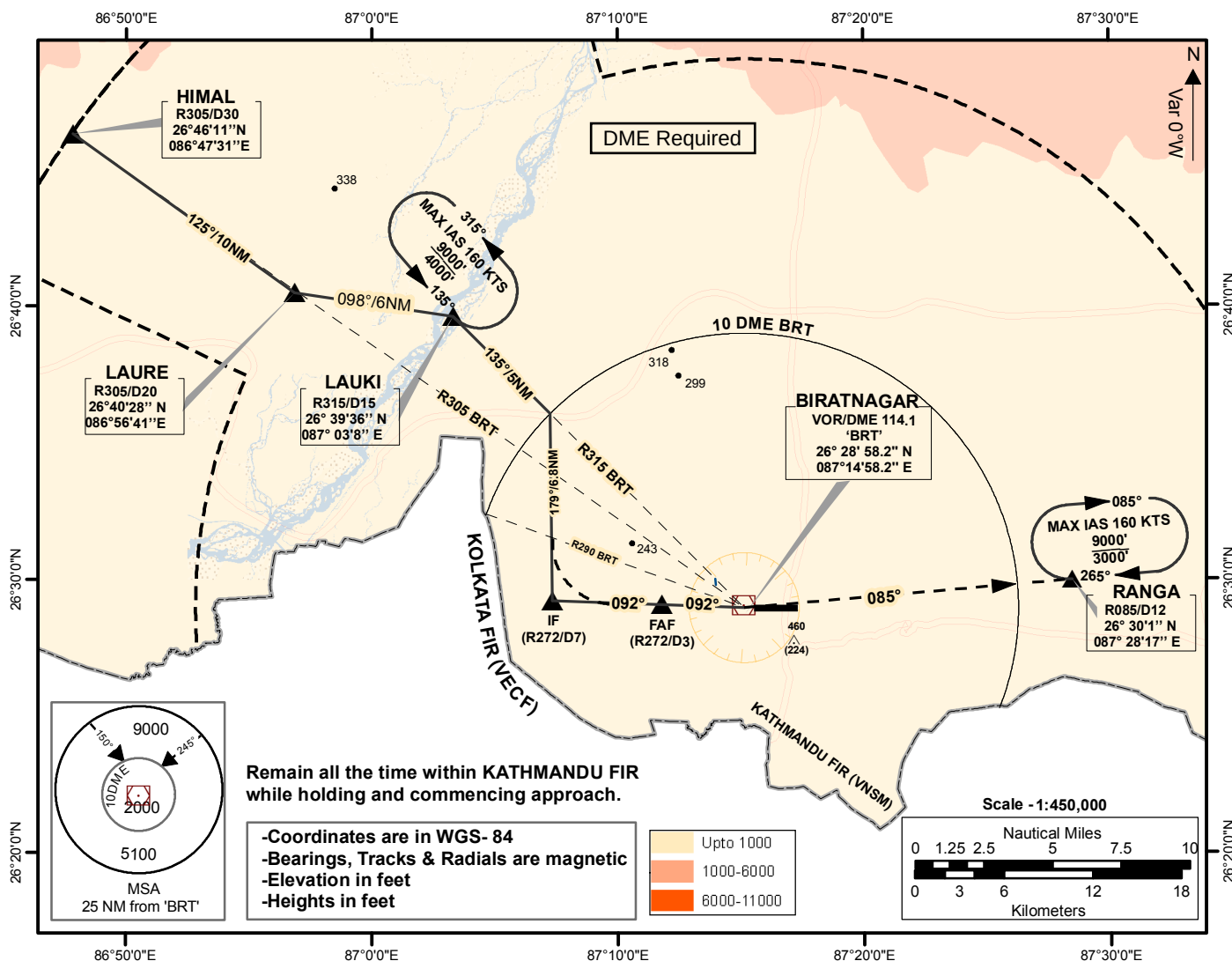
NAV FAC	FRQ	COORDINATE
DVOR/DME 'BRT'	114.1MHz/88X	26°28'58.2"N 087°14'58.2"E

**INSTRUMENT
APPROACH
CHART - ICAO**

**AERODROME ELEV 246'
TRANS LEVEL: FL150
TRANS ALT: 13500 ft.
Mag Var. 0°W (2010)**

TWR 123.8

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

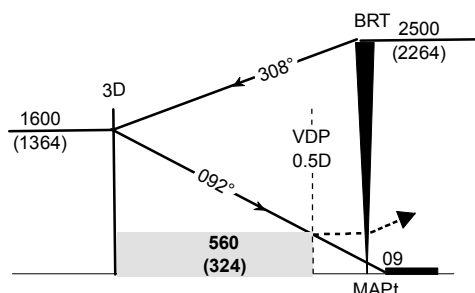
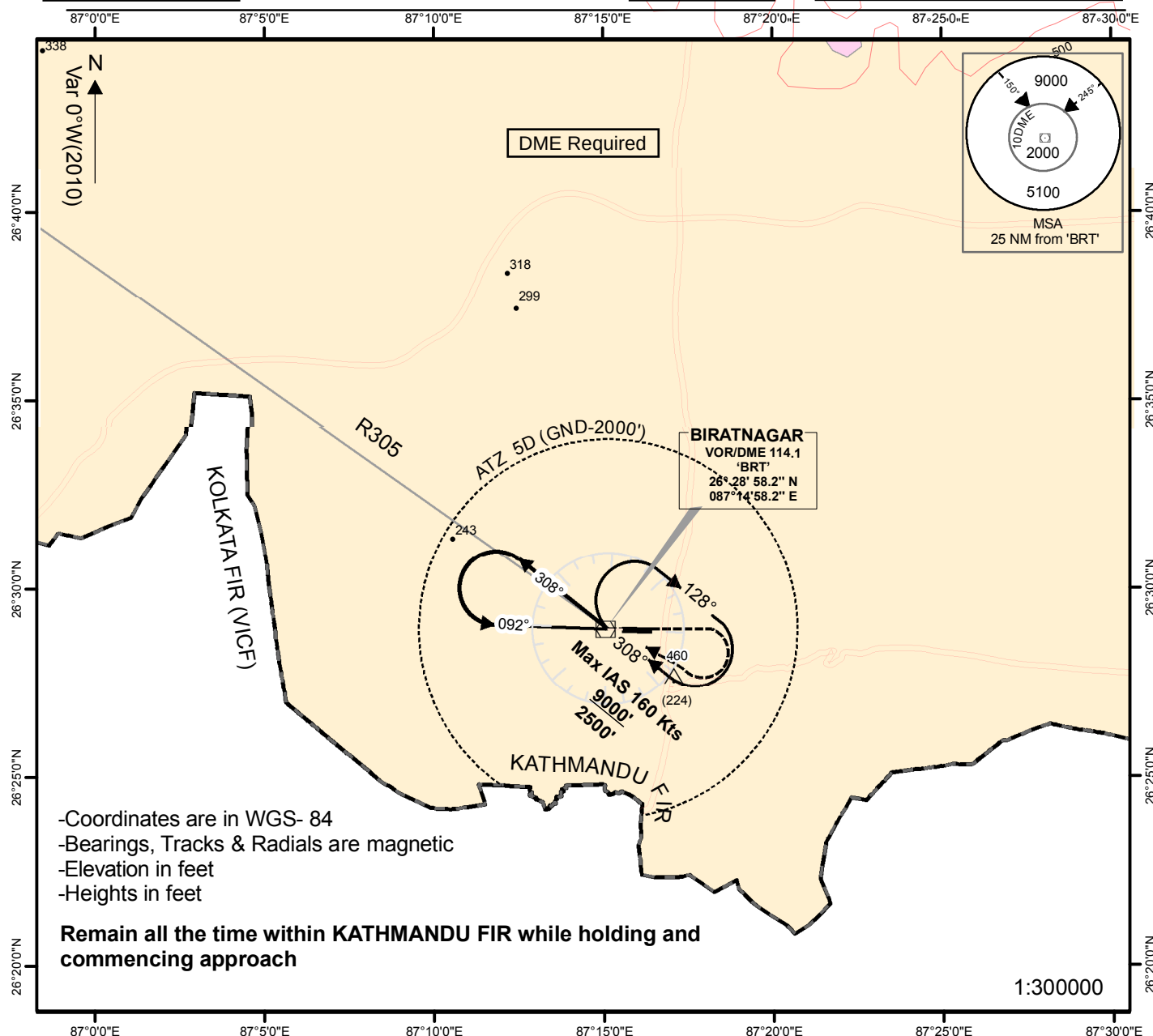


**INSTRUMENT
APPROACH
CHART - ICAO**

**AERODROME ELEV 246'
TRANS LEVEL: FL150
TRANS ALT: 13500 ft.
Mag Var. 0°W (2010)**

TWR 123.8

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

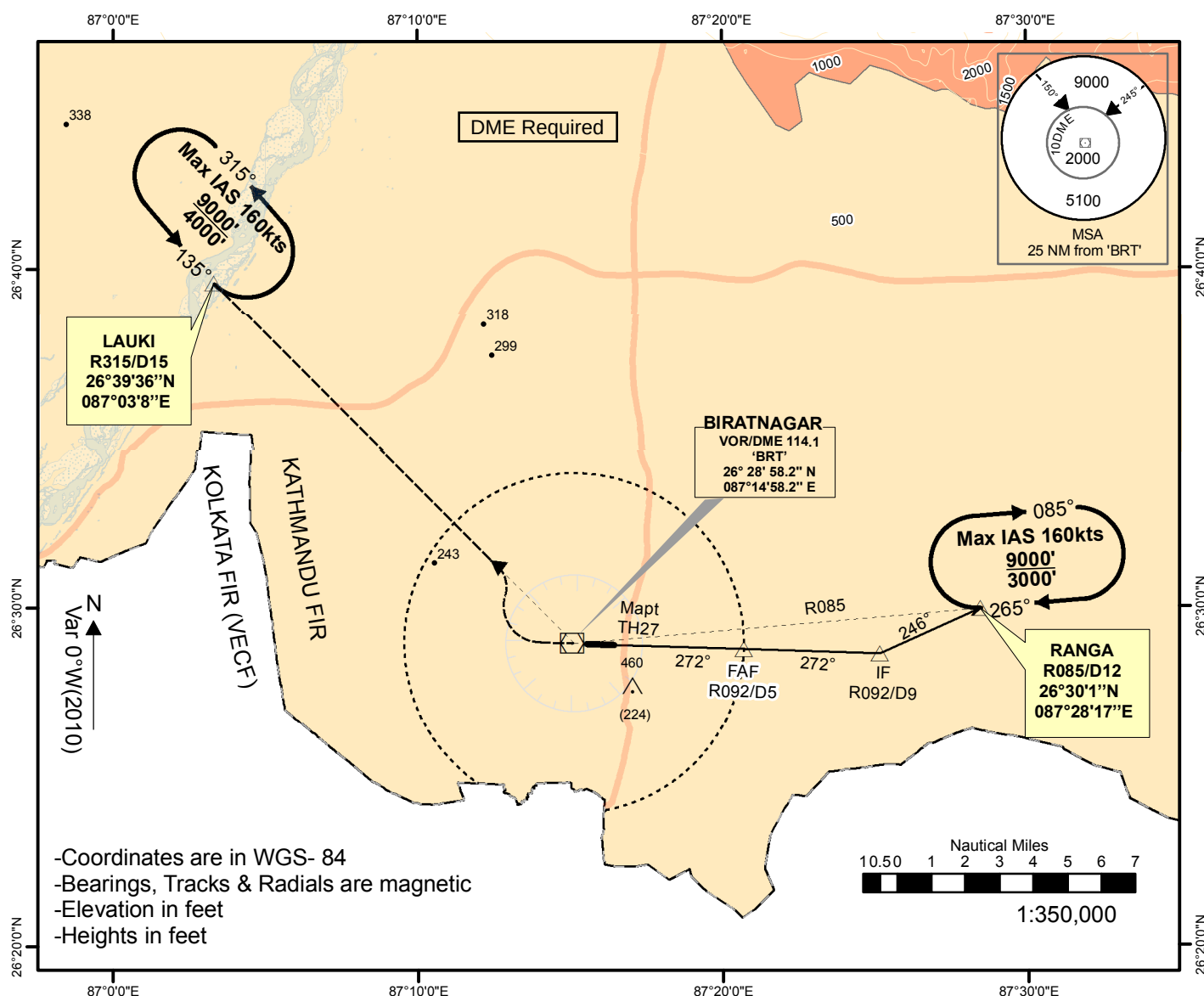


**MISSED APPROACH
CLIMB STRAIGHT AHEAD TO 1000'. TURN RIGHT
TO JOIN 'BRT' HOLDING PATTERN. REACH
'BRT' AT OR ABOVE 2500'**

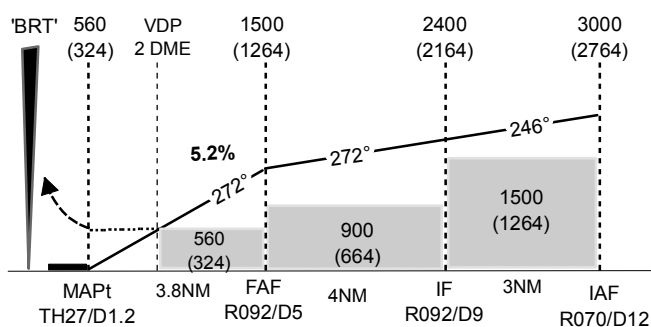
OCA (H) - Visibility				
Cat of ACFT	A	B	C	D
ST-IN RWY 09	560(324)-1600mt		560(324)-2000mt	NA
	ALS OUT - 2000mt		ALS OUT - 2400mt	
Circling	1400(1264)-2000mt	1400(1264)-2800mt	1500(1264)-3700mt	
	NOT AUTHORIZED AT NIGHT			

INSTRUMENT
APPROACH
CHART - ICAOAERODROME ELEV 246'
TRANS LEVEL: FL150
TRANS ALT: 13500 ft. Var
0°W (2010)

TWR 123.8

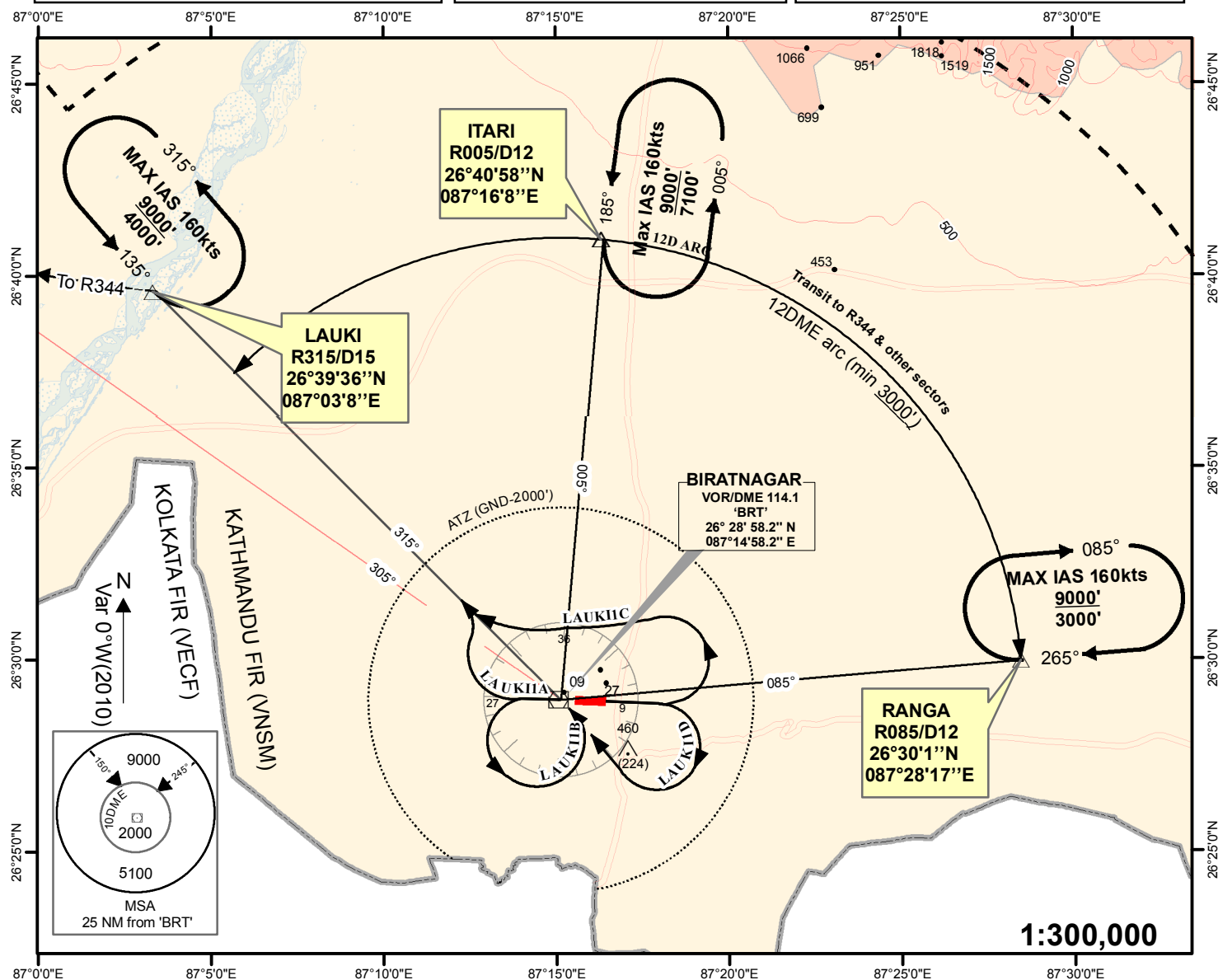
BIRATNAGAR, NEPAL
Biratnagar Airport
VOR RWY 27
VOR 'BRT' 114.1

-Coordinates are in WGS- 84
-Bearings, Tracks & Radials are magnetic
-Elevation in feet
-Heights in feet



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%**

OCA (H) - Visibility					FAF to TH27 3.8 NM					
Cat of ACFT	A	B	C	D	Knots	60	90	120	150	180
ST-IN RWY 27	560(324)-2000mt		560(324)-2400mt	NA	Min:Sec	3:50	2:33	1:55	1:32	1:17
Circling	1400(1264)-2000mt	1400(1264)-2800mt	1500(1264)-3700mt	NA	Ft/ min	316	474	632	790	948
	NOT AUTHORIZED AT NIGHT									

**STANDARD DEPARTURE
CHART - INSTRUMENT
(SID) - ICAO****AERODROME ELEV 246'
TRANS LEVEL: FL150
TRANS ALT: 13500 ft.
TWR 123.8****BIRATNAGAR, NEPAL
Biratnagar Airport
LAUKI 1A, LAUKI 1B,
LAUKI 1C, LAUKI 1D
'BRT' VOR 114.1****Minimum visibility required - 1600 m**

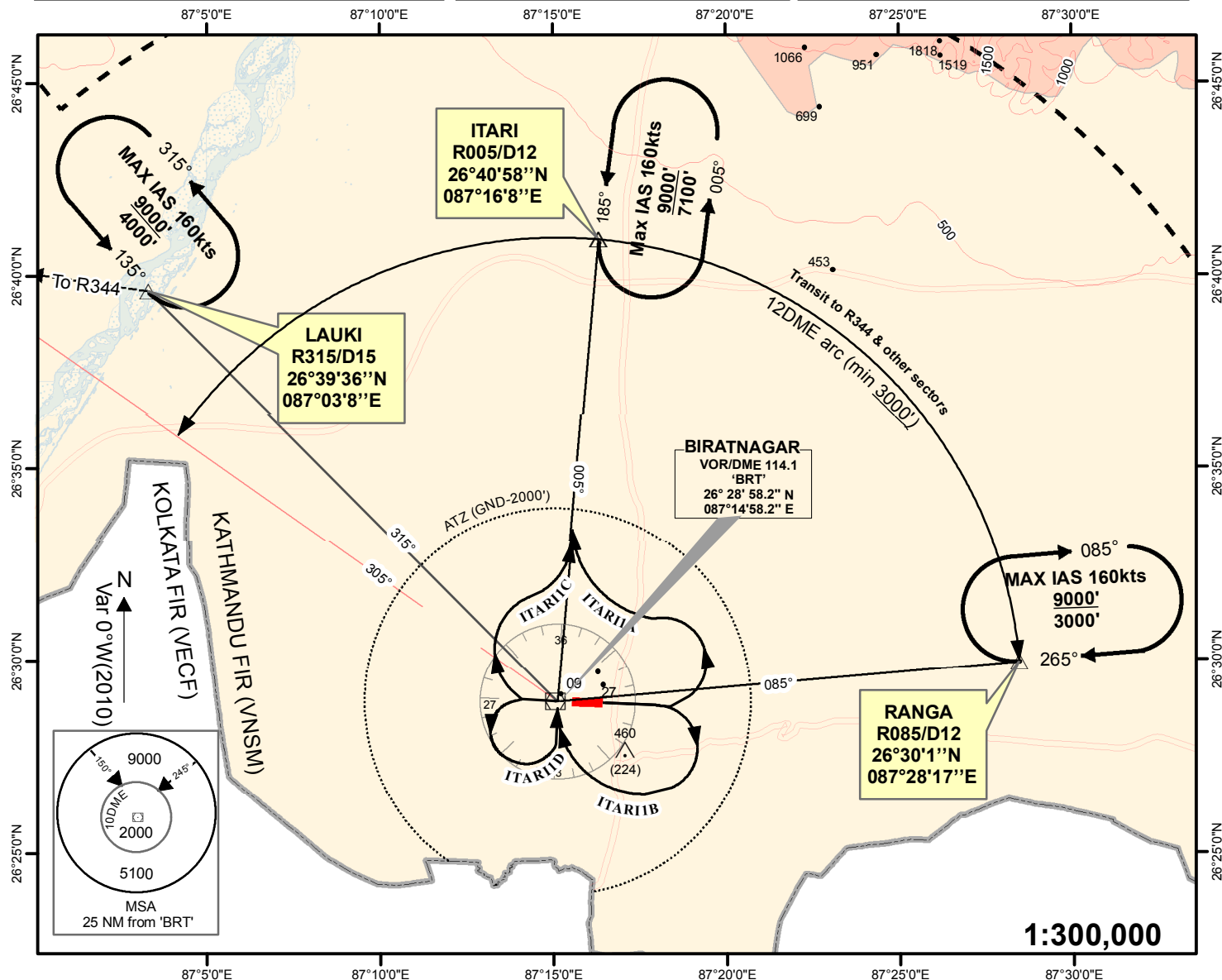
RWY 27	LAUKI 1A PDG = 5% Max IAS 180Kts CLIMB STRAIGHT AHEAD. AT 1DME, TURN RIGHT TO INTERCEPT R315 OUTBOUND TO LAUKI (R315/D15) REACH LAUKI AT OR ABOVE 4000' LAUKI 1B PDG = 5% Max IAS 180Kts CLIMB STRAIGHT AHEAD. AT 1DME, TURN LEFT (REMAINING WITHIN 4 DME ARC) TO 'BRT'. FOLLOW OUTBOUND R315 TO LAUKI (R315/D15). REACH LAUKI AT OR ABOVE 4000'
RWY 09	LAUKI 1C PDG = 5% Max IAS 180Kts CLIMB STRAIGHT AHEAD. AT 2.5DME, TURN LEFT TO INTERCEPT R315 OUTBOUND TO LAUKI (R315/D15) REACH LAUKI AT OR ABOVE 4000' LAUKI 1D PDG = 5% Max IAS 180Kts CLIMB STRAIGHT AHEAD. AT 2.5DME, TURN RIGHT (REMAINING WITHIN 4 DME ARC) TO INTERCEPT R135 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.

**STANDARD DEPARTURE
CHART - INSTRUMENT
(SID) - ICAO**

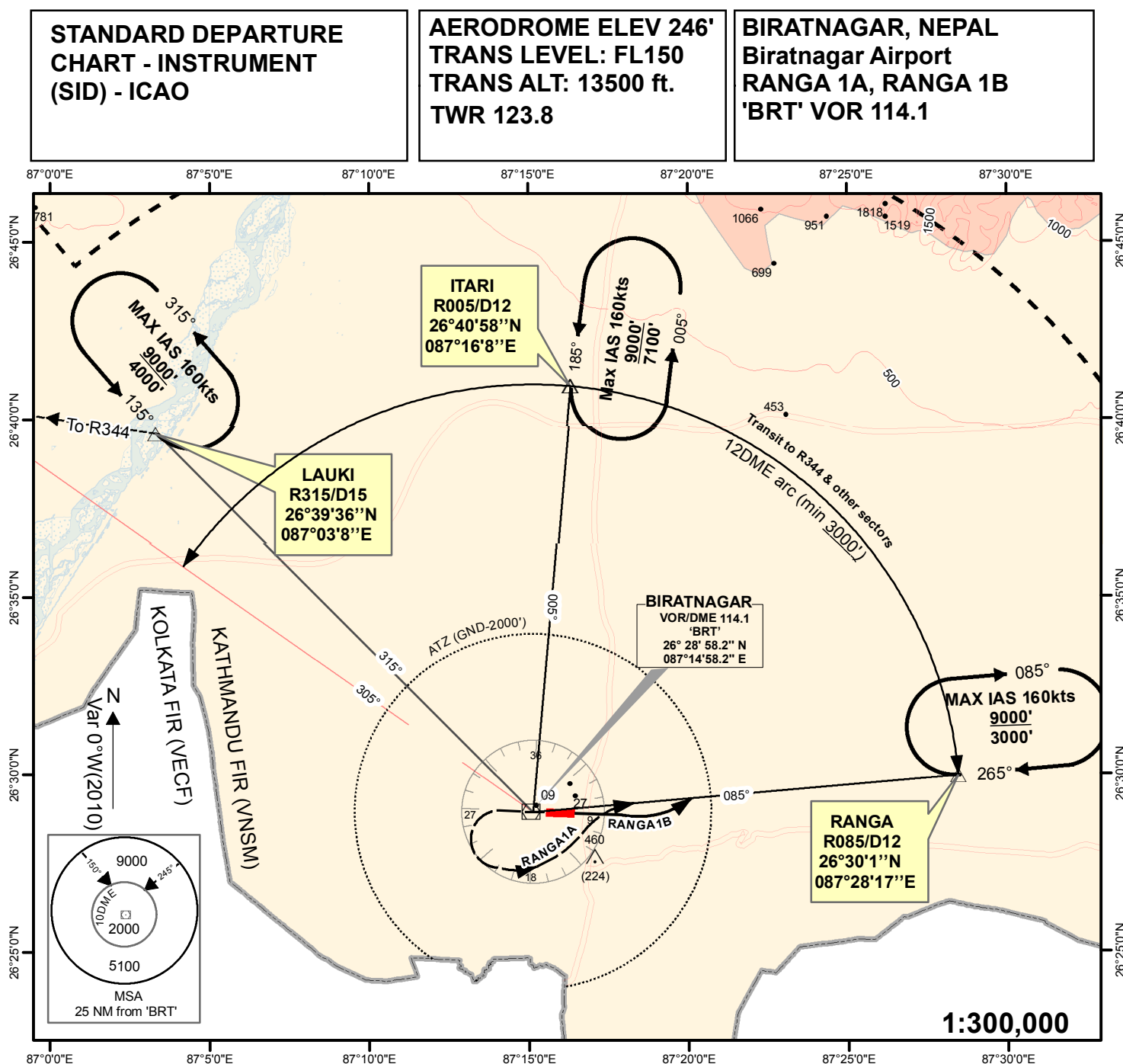
**AERODROME ELEV 246'
TRANS LEVEL: FL150
TRANS ALT: 13500 ft.
TWR 123.8**

**BIRATNAGAR, NEPAL
Biratnagar Airport
ITARI 1A, ITARI 1B,
ITARI 1C, ITARI 1D
'BRT' VOR 114.1**



Minimum visibility required - 1600 m

RWY 27	ITARI 1C PDG = 9% Max IAS 180Kts CLIMB STRAIGHT AHEAD. AT 1DME, TURN RIGHT TO INTERCEPT R005 TO 'ITARI' (R005/D12). REACH ITARI AT OR ABOVE 7100' ITARI 1D PDG = 7% Max IAS 180Kts 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'
RWY 09	ITARI 1A PDG = 9% Max IAS 180Kts CLIMB STRAIGHT AHEAD. AT 2.5DME, TURN LEFT TO INTERCEPT R005 TO 'ITARI' (R005/D12). REACH ITARI AT OR ABOVE 7100' ITARI 1B PDG = 7% Max IAS 180Kts 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'



Minimum visibility required - 1600 m

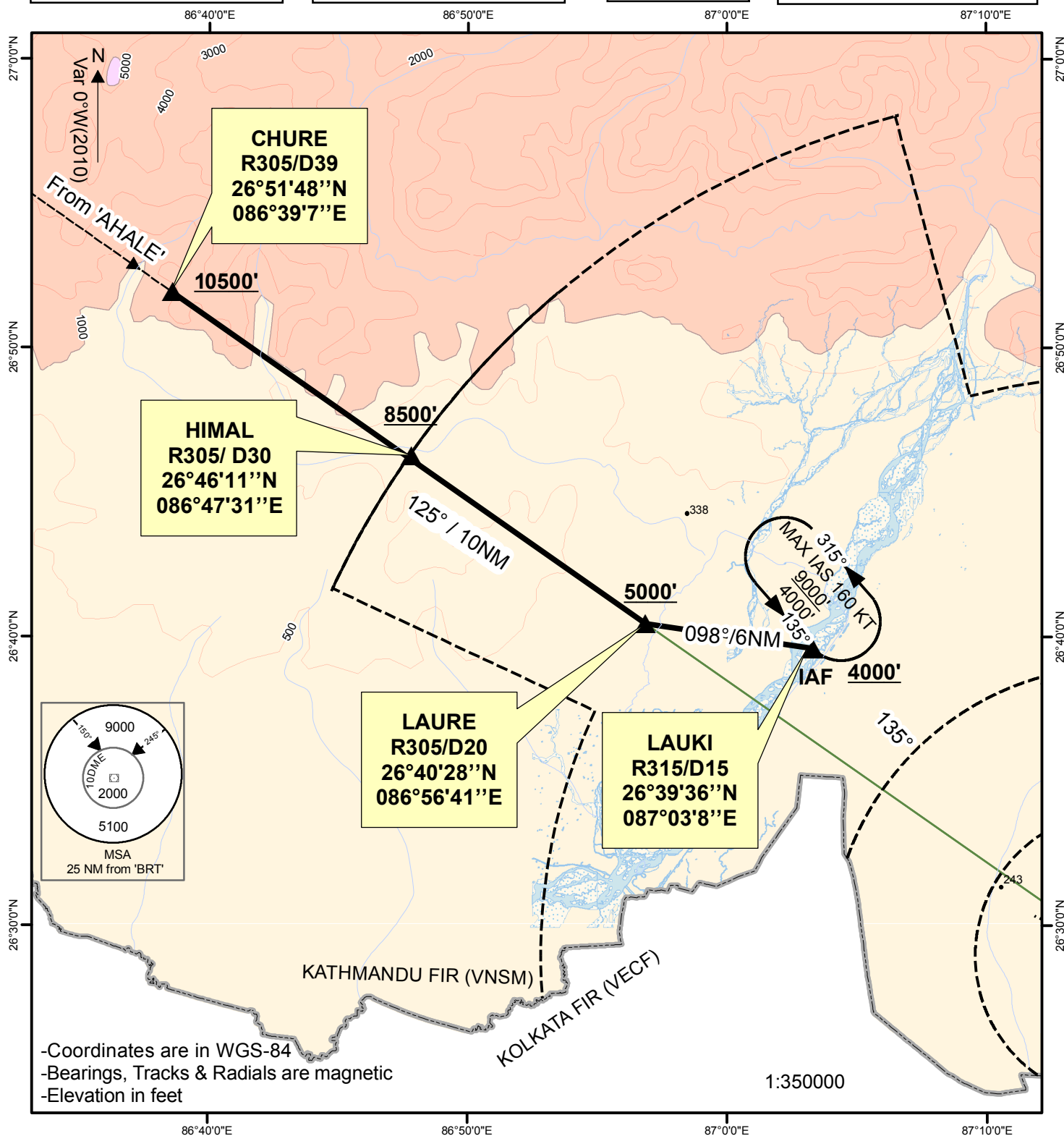
RWY 27	RANGA 1A PDG = 5% Max IAS 180Kts CLIMB STRAIGHT AHEAD. AT 1DME, TURN LEFT (REMAINING WITHIN 4D ARC) TO INTERCEPT R085 OUTBOUND TO RANGA(R085/D12). REACH RANGA AT OR ABOVE 3000'
RWY 09	RANGA 1B (PDG 4%) CLIMB STRAIGHT AHEAD TO INTERCEPT R085 TO RANGA (R085/D12). REACH RANGA AT OR ABOVE 3000'

STANDARD ARRIVAL
CHART - INSTRUMENT
(STAR) - ICAO

AERODROME ELEV 246'
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

5. List of Significant point

W/P ID	Latitude	Longitude
CHURE	26°51'48.0" N	086°39'07.0" E
HIMAL	26°46'05.3" N	086°47'26.1" E
LAUKI (IAF)	26°39'33.7" N	087°03'05.1" E
INAWA	26°37'26.6" N	087°05'27.7" E
VT102 (IF)	26°29'10.1" N	087°08'17.0" E
FAF (VT104)	26°29'04.2" N	087°11'37.5" E
VT106 (MAPT)	26°28'58.3" N	087°14'58.0" E
RANGA	26°30'03.4" N	087°28'17.2" E

6. STAR coding Table

W/P ID	W/P Description	Path Terminator	TD	CRS (°) mag	DIST (NM)	ALT (FT)	SPD (KTS)	Remarks
CHURE	-	IF				AA 10500		
HIMAL	-	TF		127°	9.3	AA 8500		
LAUKI	-	TF		115 °	15.3	AA 4000	Max IAS 160Kts	

7. RNP APCH coding Table

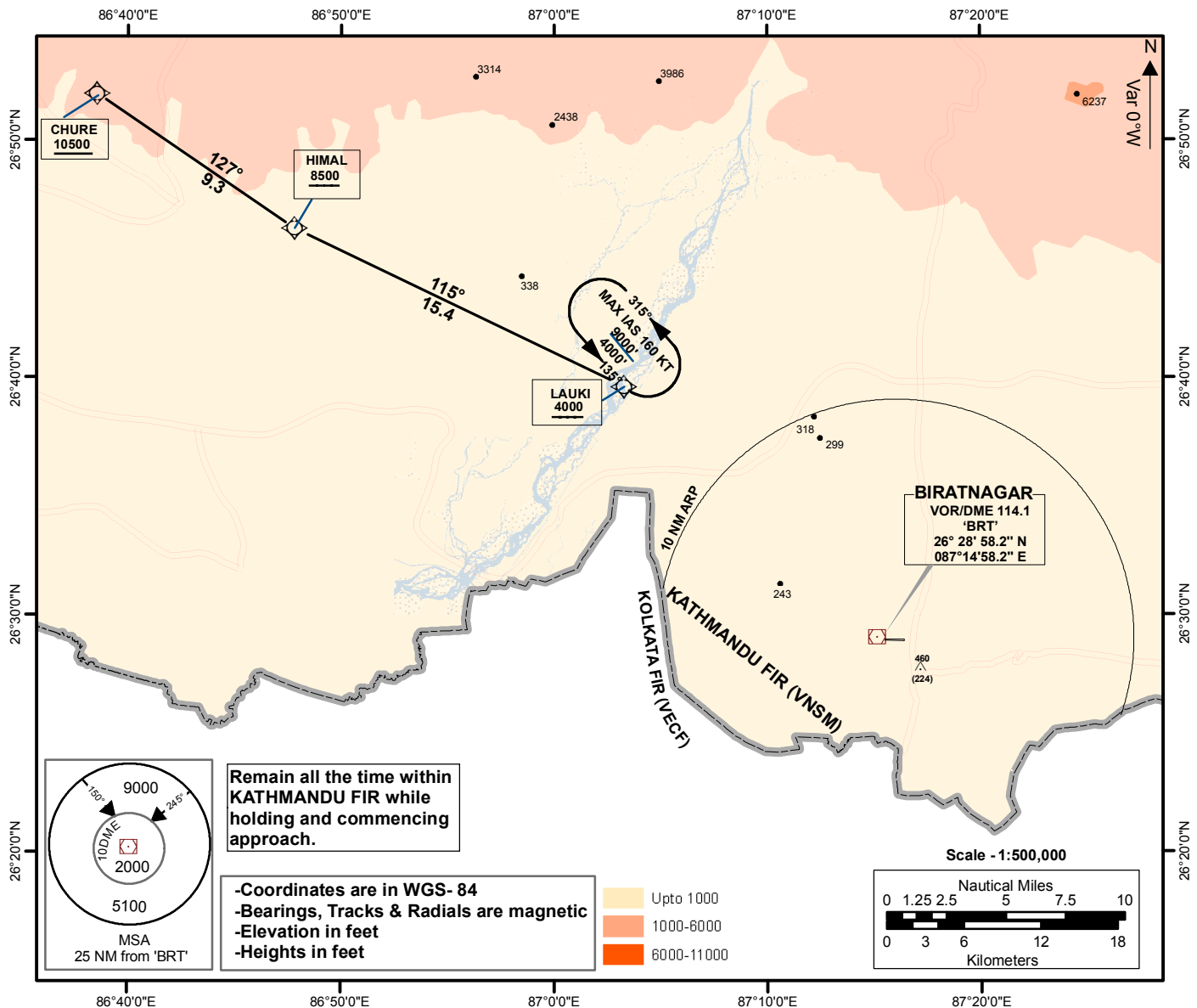
W/P ID	W/P Description	Path Terminator	TD	CRS (°) mag?	DIST (NM)	ALT (FT)	SPD (KTS)	Remarks
LAUKI (IAF)	-	IF				AA 4000		
INAWA	-	TF	R	135°	3			
VT102 (IF)	-	TF	L	163°	8.6	AA 1500	Max IAS 180kts	
VT104 (FAF)	-	TF		092°	3	AA 1400		
VT106 (MAPT)	Y	TF		092°	3	0560		
RANGA	-	TF	L	085°	12	AA 3000		
RANGA	-	HM	R			AA 3000	Max IAS 160kts	

STANDARD ARRIVAL
CHART - INSTRUMENT
(STAR) - ICAO

AERODROME ELEV 246'
TRANS LEVEL: FL150
TRANS ALT: 13500 ft.
Mag Var. 0°W (2010)

TWR 123.8

BIRATNAGAR, NEPAL
Biratnagar Airport
BASIC RNP-1 STAR
CHURE 1 ARRIVAL



CHURE 1 ARRIVAL

FROM CHURE DESCEND HDG 127° TO HIMAL AT OR ABOVE 8500 FT. FROM HIMAL DESCEND HDG 115° TO LAUKI AT OR ABOVE 4000 FT.

INSTRUMENT
APPROACH
CHART - ICAOAERODROME ELEV 246'
TRANS LEVEL: FL150
TRANS ALT: 13500 ft.
Mag Var. 0°W (2010)

TWR 123.8

BIRATNAGAR, NEPAL
Biratnagar Airport
RNP Rwy 09 (LNAV Only)