TEL: 977-4257667
4262518
FAX: 977-1-4257668
AFS: VNKTYOYX
caanais@caanepal.gov.np
Website : caanepal.gov.np

NEPAL

AERONAUTICAL INFORMATION MANAGEMENT DEPARTMENT

CIVIL AVIATION AUTHORITY OF NEPAL
BABARMAHAL KATHMANDU

AIP AMENDMENT 7/22

24 August 2022

WITH IMMEDIATE EFFECT

1. **Contents**
   1.1 Aerodrome Obstacle data of Nepalgunj Airport and Biratnagar Airport.

2. On 24 August 2022, remove and insert following pages.

	Remove the following pages:		**Insert the following pages:**	
	GENERAL (GEN)			
	GEN 0.4-7	01 JULY 2022	GEN 0.4-7	24 AUGUST 2022
	GEN 0.4-8	01 JULY 2022	GEN 0.4-8	24 AUGUST 2022
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	VNNG AD 2-3	01 JULY 2022	VNNG AD 2-3	24 AUGUST 2022
	VNNG AD 2-4	01 JULY 2022	VNNG AD 2-4	24 AUGUST 2022
	VNNG AD 2-5	01 JULY 2022	VNNG AD 2-5	24 AUGUST 2022
	VNNG AD 2-6	01 JULY 2022	VNNG AD 2-6	24 AUGUST 2022
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	VNVT AD 2-5	01 JULY 2022	VNVT AD 2-5	24 AUGUST 2022
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	VNVT AD 2-7	01 JULY 2022	VNVT AD 2-7	24 AUGUST 2022
	VNVT AD 2-8	01 JULY 2022	VNVT AD 2-8	24 AUGUST 2022
	VNVT AD 2-9	01 JULY 2022	VNVT AD 2-9	24 AUGUST 2022
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	VNVT AD 2-11	01 JULY 2022	VNVT AD 2-11	24 AUGUST 2022
	VNVT AD 2-12	01 JULY 2022	VNVT AD 2-12	24 AUGUST 2022
	VNVT AD 2-13	01 JULY 2022	VNVT AD 2-13	24 AUGUST 2022
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VNSI AD 2	VNSI AD 2 – 1	01 JULY 2022
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	VNSI AD 2 – 11	01 JULY 2022
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	VNSI AD 2 – 13	01 JULY 2022
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VNSK AD 2	VNSK AD 2 – 1	01 JULY 2022
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	VNTR AD 2 – 2	01 JULY 2022
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	VNTR AD 2 – 4	01 JULY 2022
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	VNVT AD 2 – 2	01 JULY 2022
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	VNVT AD 2 – 12	**24 AUGUST 2022**
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	VNVT AD 2 – 15	**24 AUGUST 2022**
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	VNVT AD 2 – 22	**24 AUGUST 2022**
	VNVT AD 2 – 23	**24 AUGUST 2022**
	VNVT AD 2 – 24	**24 AUGUST 2022**
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	AFIS AD 2 – 4	01 JULY 2022
	AFIS AD 2 – 5	01 JULY 2022
	AFIS AD 2 – 6	01 JULY 2022
	AFIS AD 2 – 7	01 JULY 2022
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AD 3	AD 3.1 – 1	01 JULY 2022

VNNG 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: 08/26, THR, TDZ, Center line, RWY edge marked and RWY END, THR, RWY edge have lights. TWY: Center line, holding positions at all TWY/RWY intersections marked and edge with blue lights.
3.	Stop bars	…...
4.	Remarks	-

VNNG AD 2.10 AERODROME OBSTACLES

Obstacle ID	Obstacle Name	Latitude (WGS84)	Longitude (WGS84)	Elevation (M/Ft)	Remarks
NG0001	Tower	28°06'4.9"N	81°40'4.1"E	186/610	
NG0002	ATC	28°06'5"N	81°40'3.7"E	178/584	
NG0003	Water Tank	28°06'3.1"N	81°40'10.3"E	181/594	
NG0004	Tree	28°06'1"N	81°40'7.4"E	182/596	
NG0005	Tree	28°06'0.7"N	81°40'5.7"E	183/601	
NG0006	House	28°05'55.9"N	81°40'10.3"E	169/555	
NG0007	Tree	28°05'53"N	81°40'5.8"E	193/632	
NG0008	Tree	28°06'3.5"N	81°40'0.1"E	173/569	
NG0009	Water Tank	28°06'0.7"N	81°39'46.5"E	177/580	
NG0010	Hanger	28°06'2.3"N	81°39'46.6"E	168/550	
NG0011	Light	28°06'5"N	81°39'59.4"E	167/548	
NG0012	Light	28°06'5.3"N	81°40'1.5"E	167/549	
NG0013	Light	28°06'5.8"N	81°40'5.9"E	167/548	
NG0014	Tree	28°06'4.2"N	81°40'13.6"E	173/567	
NG0015	Tree	28°06'10.2"N	81°40'17.3"E	173/568	
NG0016	Tree	28°06'10.8"N	81°40'16.2"E	167/549	
NG0017	House	28°06'6.7"N	81°40'17.8"E	164/539	
NG0018	House	28°06'2.7"N	81°40'19.2"E	166/544	
NG0019	Tree	28°06'8.4"N	81°40'22.8"E	183/600	
NG0020	Tree	28°06'7.6"N	81°40'24.2"E	178/583	
NG0021	Tree	28°06'7.6"N	81°40'25.3"E	179/589	
NG0022	Tree	28°06'5.5"N	81°40'25.2"E	179/586	

NG0023	Tree	28°06'2.3"N	81°40'23.3"E	185/606	
NG0024	Tree	28°06'1.6"N	81°40'22.8"E	183/600	
NG0025	Tree	28°06'0.6"N	81°40'22.7"E	181/595	
NG0026	Tree	28°06'1.4"N	81°40'19"E	174/572	
NG0027	Tree	28°06'0.7"N	81°40'20.3"E	179/588	
NG0028	Tree	28°06'0.4"N	81°40'19.6"E	180/591	
NG0029	Tree	28°05'58.5"N	81°40'20.6"E	180/590	
NG0030	Tree	28°06'3.6"N	81°40'25.5"E	182/596	
NG0031	Tree	28°06'15.6"N	81°40'54.6"E	180/589	
NG0032	Tree	28°06'17.5"N	81°40'53.2"E	162/531	
NG0033	Tree	28°06'18.5"N	81°40'52.8"E	164/540	
NG0034	Tree	28°06'20.9"N	81°40'53.1"E	164/537	
NG0035	Tree	28°06'21.1"N	81°40'52.5"E	164/537	
NG0036	Tree	28°06'19.4"N	81°40'52.1"E	160/524	
NG0037	Tree	28°06'19.7"N	81°40'51.7"E	159/522	
NG0038	Tree	28°06'19.6"N	81°40'51.4"E	158/517	
NG0039	Tree	28°06'23.5"N	81°40'51"E	173/567	
NG0040	Tree	28°06'21.8"N	81°40'49.5"E	162/533	
NG0041	Electric Pole	28°06'20"N	81°40'51.3"E	158/518	
NG0042	Tree	28°06'18.1"N	81°40'52"E	157/514	
NG0043	Tree	28°06'15"N	81°40'44"E	181/595	
NG0044	Tree	28°06'14.8"N	81°40'40.3"E	180/589	
NG0045	Tree	28°06'13"N	81°40'40.5"E	187/614	
NG0046	Tree	28°06'14.1"N	81°40'38.9"E	179/587	
NG0047	Tree	28°06'13.8"N	81°40'36.8"E	177/580	
NG0048	Tree	28°06'13.5"N	81°40'37.9"E	177/579	
NG0049	Tree	28°06'12.9"N	81°40'36.7"E	178/584	
NG0050	Tree	28°06'15.3"N	81°40'47.9"E	174/569	
NG0051	Tree	28°06'15.6"N	81°40'54.5"E	181/593	
NG0052	Tree	28°06'18.6"N	81°40'17.4"E	171/562	
NG0053	Tree	28°06'18.9"N	81°40'18.7"E	178/582	
NG0054	Tree	28°06'19.6"N	81°40'17.5"E	173/566	
NG0055	Tree	28°06'20.8"N	81°40'10.8"E	168/550	
NG0056	Tree	28°06'20.6"N	81°40'19.8"E	177/580	
NG0057	Tree	28°06'21.8"N	81°40'18.8"E	173/569	
NG0058	House	28°06'19.6"N	81°40'27.6"E	162/533	
NG0059	Tree	28°06'21.9"N	81°40'21.2"E	171/560	

NG0060	Tree	28°06'23.7"N	81°40'22.1"E	176/578	
NG0061	Tree	28°06'16.3"N	81°39'37.2"E	166/543	
NG0062	Tree	28°06'18"N	81°39'36.3"E	169/555	
NG0063	House	28°06'12.1"N	81°39'32.9"E	161/527	
NG0064	Tree	28°06'17.4"N	81°39'38.1"E	168/551	
NG0065	House	28°06'17.6"N	81°39'38.5"E	165/543	
NG0066	Tree	28°06'15.4"N	81°39'39.7"E	161/530	
NG0067	House	28°06'17.3"N	81°39'39.7"E	164/538	
NG0068	Tree	28°06'16.7"N	81°39'40.5"E	168/552	
NG0069	Tree	28°06'17"N	81°39'40.8"E	168/551	
NG0070	Tree	28°06'18.8"N	81°39'42.7"E	170/557	
NG0071	House	28°06'20.9"N	81°39'21.4"E	168/552	
NG0072	Windsock	28°06'10.8"N	81°39'34.8"E	164/537	
NG0073	Tree	28°05'59.7"N	81°39'28.6"E	184/604	
NG0074	House	28°06'0.6"N	81°39'36.2"E	168/551	
NG0075	House	28°06'1.4"N	81°39'24.4"E	166/543	
NG0076	House	28°06'4.4"N	81°39'22.6"E	157/516	
NG0077	Tree	28°06'1.7"N	81°39'22.1"E	171/559	
NG0078	House	28°06'1.7"N	81°39'21.8"E	165/542	
NG0079	Tree	28°06'2.7"N	81°39'21.1"E	178/583	
NG0080	Tree	28°06'3.7"N	81°39'20.5"E	170/558	
NG0081	Tree	28°06'3.9"N	81°39'20.4"E	170/557	
NG0082	House	28°06'3.7"N	81°39'17.1"E	161/530	
NG0083	Gate	28°06'4.3"N	81°39'14.9"E	164/537	
NG0084	Tree	28°06'4.5"N	81°39'13.4"E	168/551	
NG0085	Tree	28°06'5.2"N	81°39'13.8"E	166/545	
NG0086	Tree	28°06'7.7"N	81°39'14"E	163/535	
NG0087	Tree	28°06'8.8"N	81°39'14.6"E	163/536	
NG0088	House	28°06'9.8"N	81°39'14.5"E	159/521	
NG0089	House	28°06'10.5"N	81°39'14.9"E	159/521	
NG0090	House	28°06'12.5"N	81°39'15.8"E	163/535	
NG0091	Electric Pole	28°06'13"N	81°39'16.4"E	163/536	
NG0092	House	28°06'15.2"N	81°39'15.8"E	164/537	
NG0093	House-WIFI	28°06'15.5"N	81°39'16.5"E	168/551	
NG0094	House	28°06'19.1"N	81°39'21"E	171/560	
NG0095	House (Hording Board)	28°06'18.4"N	81°39'20"E	169/555	
NG0096	Tree	28°06'0.1"N	81°39'41.6"E	179/588	

NG0097	Tree	28°06'0.4"N	81°39'42.8"E	178/584	
NG0098	Tree	28°05'57.5"N	81°39'42.6"E	178/583	
NG0099	Water Tank	28°05'43.8"N	81°39'47.2"E	181/593	
NG0100	Mobile Tower	28°05'51.4"N	81°39'51.7"E	176/577	
NG0101	Mobile Tower	28°05'50.6"N	81°39'48.2"E	174/570	
NG0102	Fire House	28°06'5.8"N	81°40'10.6"E	169/555	
NG0103	Tree	28°06'16.1"N	81°40'58.5"E	177/581	
NG0104	Tree	28°06'14"N	81°40'57.1"E	174/572	
NG0105	Tree	28°06'9.6"N	81°40'52.4"E	179/588	
NG0106	Tree	28°06'24.6"N	81°40'32.2"E	173/568	
NG0107	Tree	28°06'25.8"N	81°40'35.4"E	171/562	
NG0108	Tree	28°06'25.2"N	81°40'39.3"E	166/545	
NG0109	Tree	28°06'25.5"N	81°40'41.3"E	164/537	
NG0110	Tree	28°06'25.3"N	81°40'43.1"E	165/541	
NG0111	Tree	28°06'23.2"N	81°40'46.2"E	165/542	
NG0112	Tree	28°06'21.3"N	81°40'48"E	167/548	
NG0113	Tree	28°06'21.6"N	81°40'41.4"E	160/527	
NG0114	Tree	28°06'28.7"N	81°40'25.5"E	170/558	
NG0115	Tree	28°06'22.6"N	81°40'21.2"E	171/562	
NG0116	Tree	28°06'20.7"N	81°40'30.3"E	163/535	
NG0117	Tree	28°06'27.7"N	81°41'10.5"E	172/565	
NG0118	Tree	28°06'17.2"N	81°41'13.2"E	167/546	
NG0119	Tree	28°06'15.2"N	81°41'21.2"E	176/578	
NG0120	Tree (Forest Start)	28°05'57.8"N	81°41'16.4"E	171/561	
NG0121	Telecom Tower	28°07'19.2"N	81°41'9.7"E	190/622	
NG0122	Telecom Tower	28°07'16"N	81°41'8.6"E	191/628	
NG0123	Brick Chimney	28°07'10.1"N	81°40'34.4"E	188/618	
NG0124	Brick Chimney	28°07'6.9"N	81°40'46.8"E	186/611	
NG0125	Brick Chimney	28°07'15.5"N	81°40'10.5"E	184/603	
NG0126	Brick Chimney	28°07'13.9"N	81°40'16.9"E	185/608	
NG0127	Bheri Hotel	28°06'48.8"N	81°39'33.3"E	181/594	
NG0128	Water Park	28°06'41.6"N	81°39'31.2"E	176/576	
NG0129	Brick Chimney	28°08'6.4"N	81°40'51.7"E	184/603	
NG0130	Brick Chimney	28°08'4"N	81°40'36.8"E	188/616	
NG0131	Brick Chimney	28°07'57.8"N	81°40'38.4"E	186/611	
NG0132	Under Construction Factory	28°07'58.1"N	81°40'44.6"E	186/609	
NG0133	Brick Chimney	28°07'42.4"N	81°40'15"E	186/610	

NG0134	Yeti Cement	28°07'37.9"N	81°39'50.6"E	180/592	
NG0135	Factory Chimney	28°07'46.8"N	81°39'53.6"E	191/626	
NG0136	Factory Chimney	28°07'47.8"N	81°39'43.7"E	180/590	
NG0137	Nepal Wellhope (Light)	28°08'43.3"N	81°40'8.8"E	195/640	
NG0138	Nepal Wellhope (Chimney)	28°08'44.9"N	81°40'11.2"E	191/626	
NG0139	Factory Chimney	28°08'47.4"N	81°39'53.6"E	193/632	
NG0140	Water Tank	28°10'33.7"N	81°40'39.9"E	192/631	
NG0141	Telecom Tower	28°09'17.1"N	81°39'44"E	191/628	
NG0142	Water Tank	28°08'55.2"N	81°39'45"E	184/603	
NG0143	Brick Chimney	28°08'36.3"N	81°39'29.4"E	187/613	
NG0144	Water Tank	28°07'37.9"N	81°38'42.9"E	181/595	
NG0145	Cement Factory	28°07'45.4"N	81°38'30.9"E	194/637	
NG0146	Chimney	28°07'37.6"N	81°37'57.7"E	184/603	
NG0147	Telecom Tower	28°07'35.1"N	81°37'43.4"E	179/587	
NG0148	Telecom Tower	28°07'30.2"N	81°37'33.6"E	184/605	
NG0149	Brick Chimney	28°06'52.5"N	81°36'29.7"E	186/610	
NG0150	Brick Chimney	28°06'45.1"N	81°36'47.6"E	183/599	
NG0151	Antenna (Climate)	28°06'32.3"N	81°35'38.3"E	228/749	
NG0152	Factory Chimney	28°05'44.7"N	81°36'20.4"E	185/608	
NG0153	Factory Chimney	28°05'49.2"N	81°36'24.5"E	170/559	
NG0154	Brick Chimney	28°05'11.5"N	81°36'45.4"E	181/594	
NG0155	Brick Chimney	28°06'25.5"N	81°38'35.6"E	182/598	
NG0156	Siddhartha Hotel	28°05'7.3"N	81°38'43.9"E	189/620	
NG0157	Mobile Tower	28°05'12.2"N	81°38'50.4"E	175/573	
NG0158	Bhatbhateni Complex	28°05'19"N	81°38'54.1"E	180/590	
NG0159	Nepal Telecom Tower	28°04'38.6"N	81°38'19.8"E	184/604	
NG0160	Radio Antenna	28°04'33"N	81°38'9.1"E	188/618	
NG0161	Mobile Tower	28°04'18.9"N	81°37'56.2"E	177/581	
NG0162	Mobile Tower	28°04'18"N	81°37'58"E	188/617	
NG0163	Mobile Tower	28°04'21.9"N	81°37'59.8"E	179/588	
NG0164	Telecom Tower	28°04'22.9"N	81°37'57.8"E	188/617	
NG0165	Communication Tower	28°04'8"N	81°37'41.3"E	184/603	
NG0166	Hotel City Palace	28°04'3.8"N	81°37'40.2"E	185/607	
NG0167	Nepal Telecom Tower	28°03'15.5"N	81°37'11.8"E	206/677	
NG0168	Telecom Tower	28°03'54.9"N	81°38'57.1"E	204/669	
NG0169	Telecom Tower	28°04'16.8"N	81°42'26.5"E	185/607	
NG0170	Telecom Tower	28°03'39.6"N	81°41'33.4"E	181/594	

NG0171	Wifi Tower	28°03'47.3"N	81°41'28.9"E	169/555	
NG0172	Mobile Tower	28°05'42.7"N	81°39'5.8"E	182/596	
NG0173	Mobile Tower	28°05'40.2"N	81°39'7.4"E	175/574	
NG0174	Soltee Hotel	28°05'18.8"N	81°39'17.1"E	183/600	
NG0175	Telecom Tower	28°04'46"N	81°40'13.6"E	185/606	
NG0176	Brick Chimney	28°04'43.9"N	81°40'33.1"E	184/602	
NG0177	Brick Chimney	28°04'30.3"N	81°40'30.1"E	181/593	
NG0178	Brick Chimney	28°05'26.6"N	81°40'0.1"E	181/595	
NG0179	Brick Chimney	28°05'28.3"N	81°39'48.6"E	182/598	
NG0180	Brick Chimney	28°05'13.7"N	81°39'47.6"E	182/598	
NG0181	Water Tank	28°05'49.3"N	81°39'37.7"E	177/580	
NG0182	NDB	28°05'51.1"N	81°39'27.7"E	176/579	
NG0183	NDB	28°05'50.5"N	81°39'25.6"E	176/579	
NG0184	NDB	28°05'52.4"N	81°39'25.5"E	177/579	
NG0185	NDB	28°05'53.4"N	81°39'27.8"E	177/580	
NG0186	NDB	28°05'55.1"N	81°39'26.1"E	177/580	
NG0187	VORDME	28°06'5.1"N	81°39'4.8"E	168/550	
NG0188	VORDME	28°06'4.6"N	81°39'4.2"E	168/550	
NG0189	VORDME	28°06'4.9"N	81°39'3.8"E	163/534	
NG0190	VORDME	28°06'5.3"N	81°39'4.0"E	168/550	
NG0191	Tree	28°06'13.5"N	81°38'57.4"E	175/575	
NG0192	Tree	28°06'13.4"N	81°38'55.3"E	171/561	
NG0193	Tree	28°06'14.7"N	81°38'52.6"E	175/573	

VNNG AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	Associated MET Office	MET office, Nepalgunj AIRPORT
2.	Hours of service MET office outside hours	As ATS
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	NIL
8.	Supplementary equipment available for providing information	Self- briefing terminal
9.	ATS units provided with information	Nepalgunj TWR
10.	Additional information (limitation of service, etc.)	Tel : (MET Office) 977-081-565288

*WGS -84 Coordinates

VNNG AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designation RWY NR	TRUE & MAG BRG	Dimensions of RWY M	Strength PCN and surface of RWY and SWY	THR Coordinates	THR elevation
1	2	3	4	5	6
08	081°	1505 x 30	21/F/C/Y/T Bitumen	280609.36 N* 0813934.20E	156.77m AMSL
26	261°	1505 x30	21/F/C/Y/T Bitumen	280616.56 N* 0814028.42E	157.50 m AMSL
Slope of RWY-SWY	SWY Dimensions M	CWY Dimensions M	Strip Dimensions M	OFZ	Remarks
5	6	7	8	9	10
…….	…….	…….	. . . .	…….	…….

VNNG AD 2.13 DECLARED DISTANCES

RWY Designator	TORA m	TODA m	ASDA m	LDA m	Remarks
1	2	3	4	5	6
08	1524	1524	1524	1524	
26	1524	1524	1524	1524	

VNNG AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT color WBAR	VASIS PAPI	TDZ LGT LEN	RWY Center Line LGT Length, spacing color, INTST	RWY edge LGT LEN, spacing color INTST	RWY End LGT color	SWY LGT LEN M color	Remarks
1	2	3	4	5	6	7	8	9	10
26	SALS 420 M LIM	Green	PAPI Left/3.40°	NIL	NIL	1500m 60m White, LIM	Red	NIL	
08	NIL	Green	PAPI Left/3.00°	NIL	NIL	1500m 60m White, LIM	Red	NIL	

* *WGS -84 Coordinates*

VNNG AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	ABN Location, characteristics and hours of operation	ABN : at Tower Building.
2.	LDI Location and LGT Anemometer Location and LGT	LDI: Anemometer: TWR BLDG, not lighted
3.	TWY edge and Centre line lighting	Edge: All TWY Centre Line : NIL
4.	Secondary power supply / switch over time	Available.
5.	Remarks	-

VNNG AD 2.16 HELICOPTER LANDING AREA

Not specified

VNNG AD 2.17 ATS AIRSPACE

1. Designation and lateral limits	Nepalgunj CTR: An area bounded by VNSM boundary to the south and an arc of a circle 10 NM in radius centered at 'NGJ' VOR (280605 N, 0813903E)*. Nepalgunj ATZ: An area of a circle of radius 5 NM centered at 'ARP'.	
2. Vertical Limits	CTR:	ATZ
	3000' AMSL GND	2000' AGL GND
3. Airspace classification	C	
4. ATS units call sign/languages(s)	Nepalgunj TWR/English	
5. Transition Altitude	13500' AMSL	
6. Remarks	-	

VNNG AD 2.18 ATS COMMUNICATION FACILITIES

Service Designation	Call Sign	Frequency	Hours of Operation	Remarks
1	2	3	4	5
TWR	Nepalgunj Tower	118.3 MHZ	As ATS	

* *WGS 84 Coordinates*

VNNG AD 2.19 RADIO NAVIGATION AND LANDING AID

Type of Aid MAG VAR Type of supported OP (for VOR/ILS/MLS give declinations)	ID	Frequency	OPR Hours	Position of Transmitting Antenna Coordinates	Elevation of DME Transmitting Antenna	Remarks
1	2	3	4	5	6	7
DVOR/DME 0° E	NGJ	115.1 MHZ CHN 98 X	H24	280605 N* 0813903 E	164 m	

VNNG AD 2.20 LOCAL TRAFFIC REGULATIONS

To be Developed

VNNG AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VNNG AD 2.22 FLIGHT PROCEDURES

Intentionally Blank

VNNG AD 2.23 ADDITIONAL INFORMATION

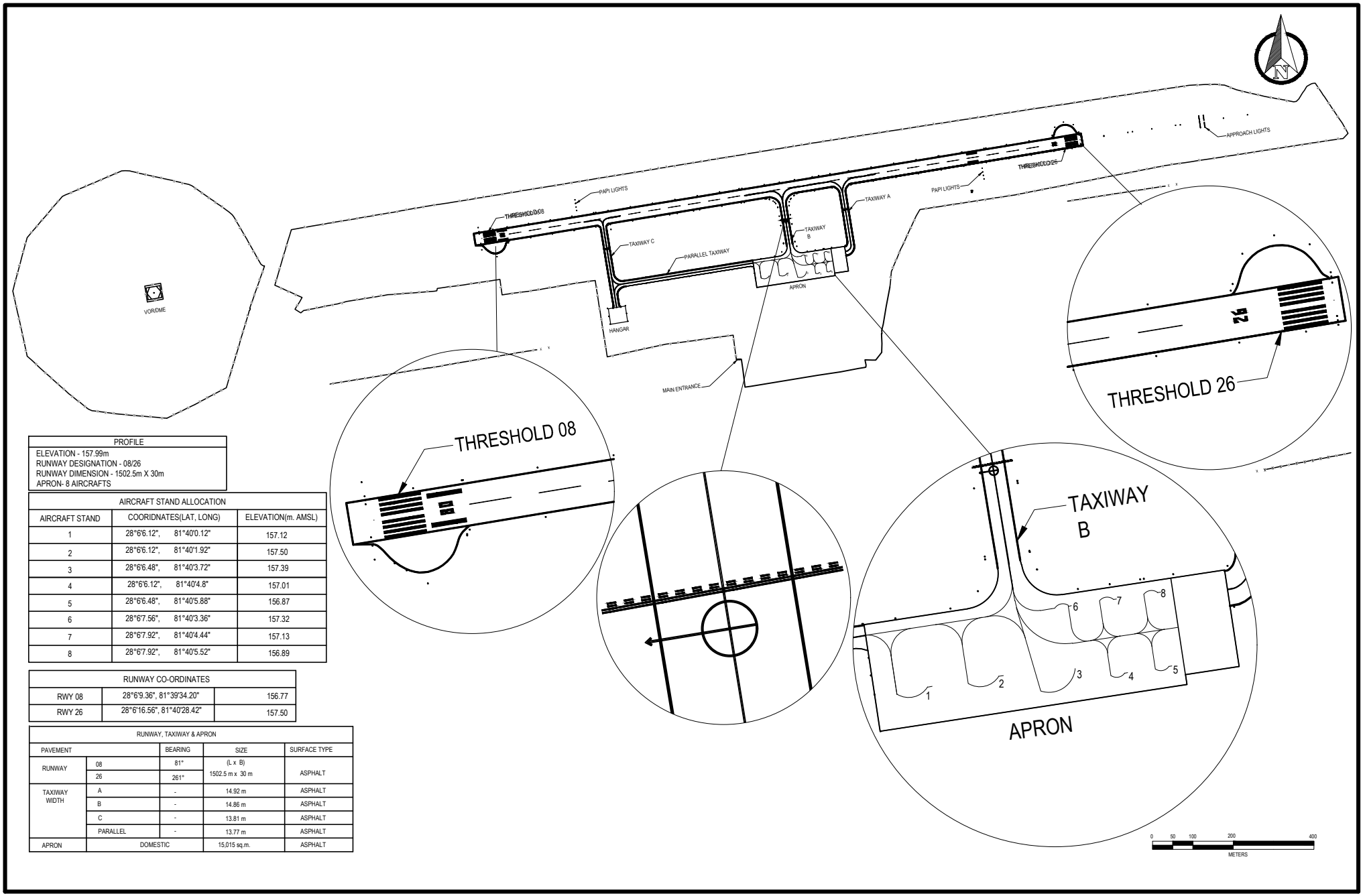
1. Bird Activity

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.

VNNG AD 2.24 CHARTS RELATED TO NEPALGUNJ AIRPORT

Aerodrome Chart	VNNG AD 2-14
Instrument Approach Chart – ICAO - VOR Z RWY 26	VNNG AD 2-15
Instrument Approach Chart – ICAO - VOR Y RWY 26	VNNG AD 2-16
Instrument Approach Chart – ICAO - VOR RWY 08	VNNG AD 2-17
Standard Departure Chart – Instrument (SID) - ICAO SIKTA 1A, SIKTA 1B, SIKTA 1C	VNNG AD 2- 18
Standard Departure Chart – Instrument (SID) - ICAO BABAI 1A, BABAI B	VNNG AD 2- 19
Standard Terminal Arrival Chart - Instrument (STAR) - ICAO	VNNG AD 2- 20
TMA, CTR, ATZ and IFR Holdings	VNNG AD 2- 21

AERODROME CHART OF NEPALGUNJ AIRPORT



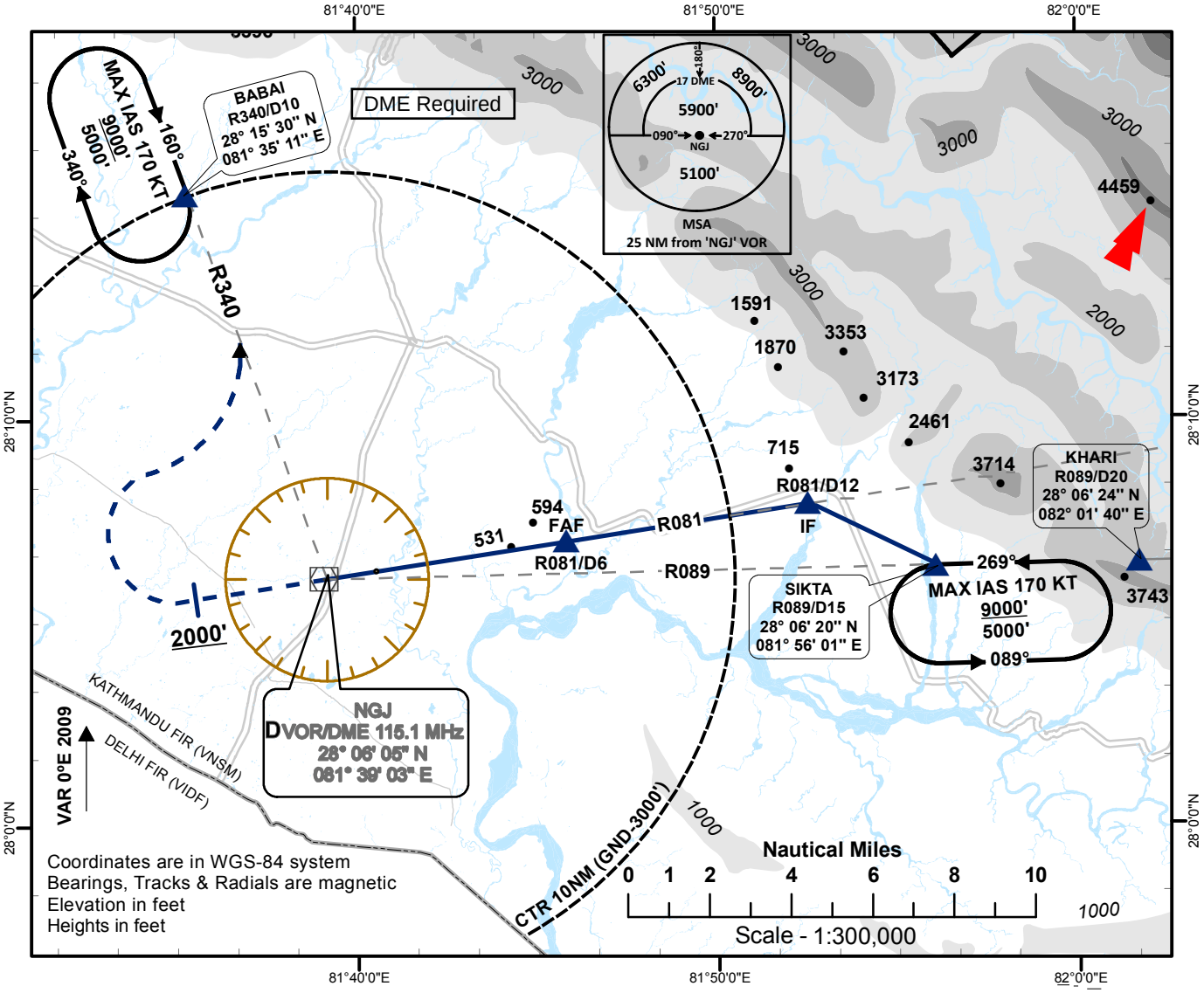
PROFILE
ELEVATION - 157.99m
RUNWAY DESIGNATION - 08/26
RUNWAY DIMENSION - 1502.5m X 30m
APRON- 8 AIRCRAFTS

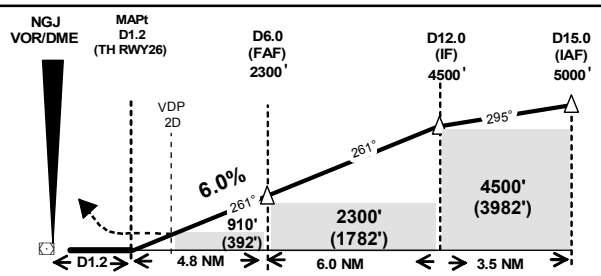
AIRCRAFT STAND ALLOCATION			
AIRCRAFT STAND	COORIDNATES(LAT, LONG)		ELEVATION(m. AMSL)
1	28°6'6.12",	81°40'0.12"	157.12
2	28°6'6.12",	81°40'1.92"	157.50
3	28°6'6.48",	81°40'3.72"	157.39
4	28°6'6.12",	81°40'4.8"	157.01
5	28°6'6.48",	81°40'5.88"	156.87
6	28°6'7.56",	81°40'3.36"	157.32
7	28°6'7.92",	81°40'4.44"	157.13
8	28°6'7.92",	81°40'5.52"	156.89

RUNWAY CO-ORDINATES		
RWY 08	28°6'9.36", 81°39'34.20"	156.77
RWY 26	28°6'16.56", 81°40'28.42"	157.50

RUNWAY, TAXIWAY & APRON				
PAVEMENT		BEARING	SIZE	SURFACE TYPE
RUNWAY	08	81°	(L x B) 1502.5 m x 30 m	ASPHALT
	26	261°		
TAXIWAY WIDTH	A	-	14.92 m	ASPHALT
	B	-	14.86 m	ASPHALT
	C	-	13.81 m	ASPHALT
	PARALLEL	-	13.77 m	ASPHALT
APRON	DOMESTIC		15,015 sq.m.	ASPHALT

INSTRUMENT APPROACH CHART - ICAO	AERODROME ELEV 518' TRANS LEVEL: FL150 TRANS ALT: 13500 ft.	TWR 118.3	NEPALGUNJ, NEPAL Nepalgunj Airport VOR Z RWY 26 VOR 'NGJ' 115.1





MISSED APPROACH:

CLIMB STRAIGHT AHEAD TO 2000'. TURN RIGHT TO INTERCEPT 'NGJ' R340 OUTBOUND TO BABAI (R340/D10) AT OR ABOVE 5000' OR AS INSTRUCTED BY ATC.

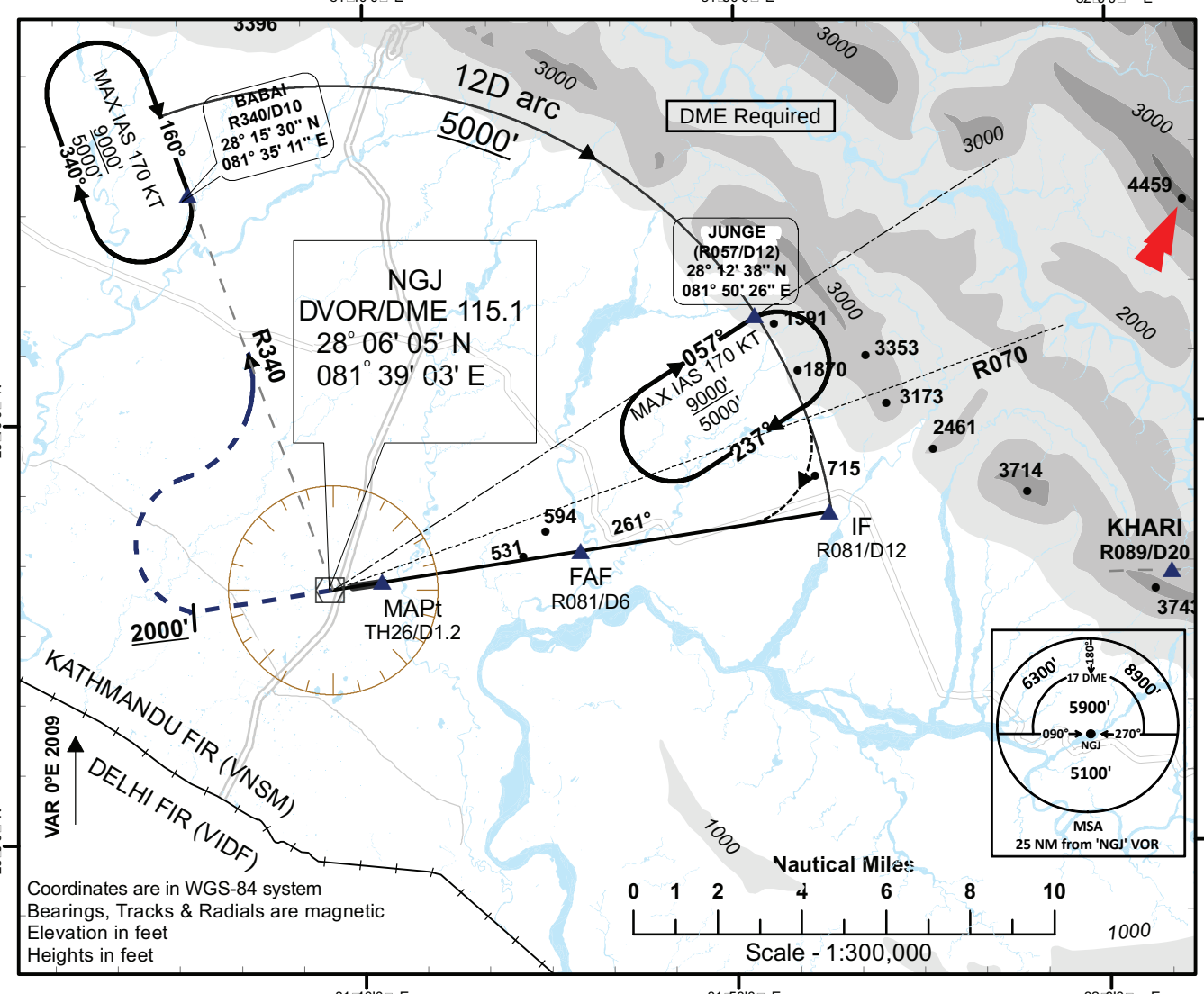
This procedure requires a gradient of 5.3% on Missed Approach.

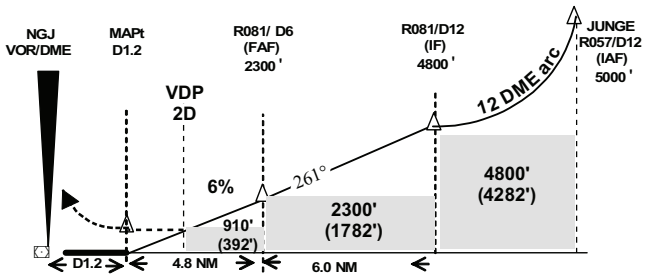
OCA/H	A	B	C
ST-IN RWY 26	910' (392) - 1600 mt		910' (39 2) - 2000 mt
ALS OUT	Visibility 2000 mt		2400 mt
CIRCLING	1020 (502) - 2000 mt	1500 (982) - 2800 mt	1610 (1092) - 3700 mt
	NOT AUTHORIZED AT NIGHT		

FAF to MAPt 4.8 NM					
Knots	60	90	120	150	180
Min:Sec	4:48	3:12	2:24	1:55	1:36
Ft/min @ 6%	365	547	729	911	1094

PAPI does not coincide with the final approach gradient

INSTRUMENT APPROACH CHART - ICAO	AERODROME ELEV 518' TRANS LEVEL: FL150 TRANS ALT: 13500 ft.	TWR 118.3	NEPALGUNJ, NEPAL Nepalgunj Airport VOR Y RWY 26 VOR 'NGJ' 115.1





MISSED APPROACH:

CLIMB STRAIGHT AHEAD TO 2000' . TURN RIGHT TO INTERCEPT 'NGJ' R340 OUTBOUND TO BABAI (R340/D10) AT OR ABOVE 5000' OR AS INSTRUCTED BY ATC .

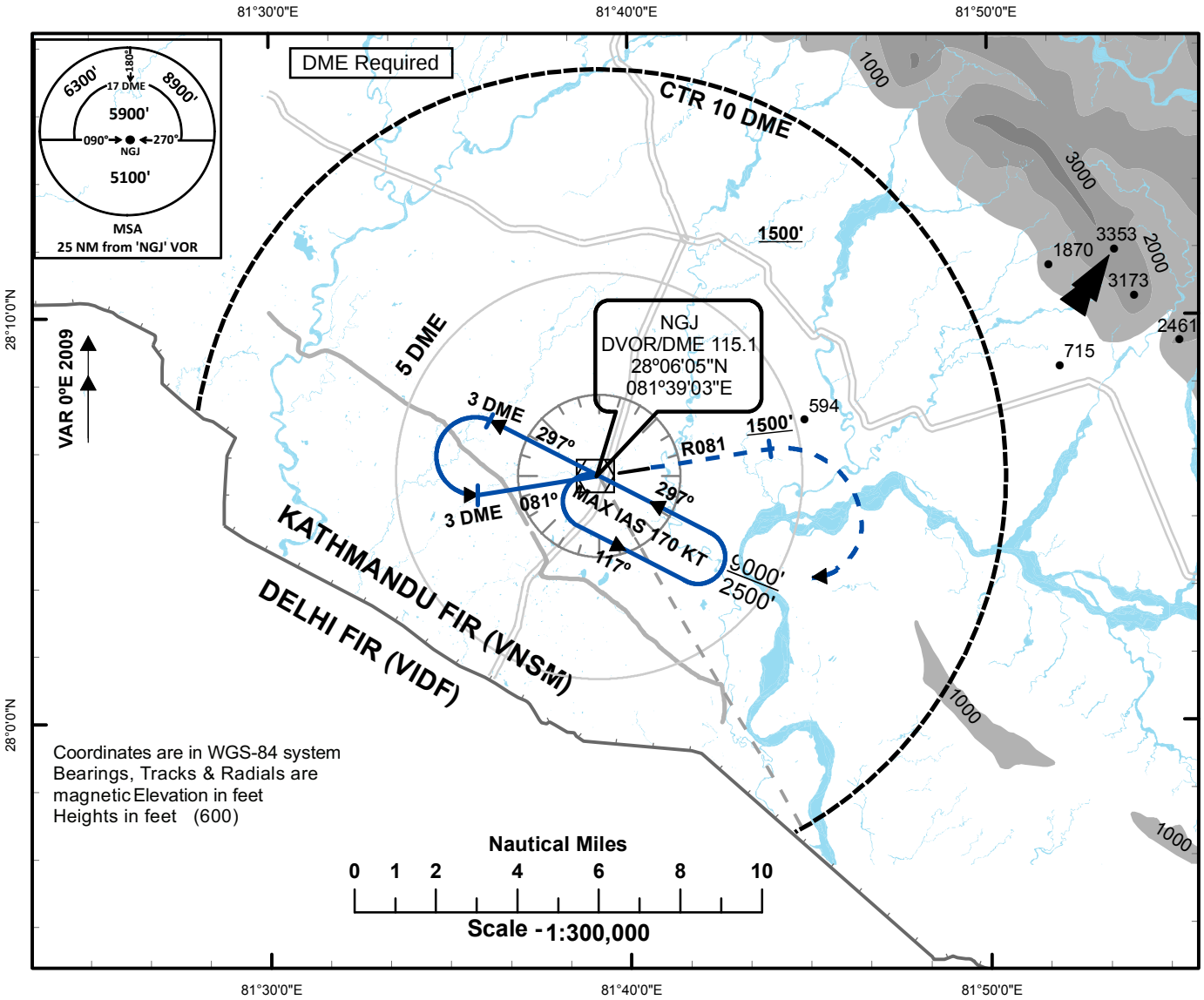
This procedure requires a gradient of 5.3% on Missed App roach .

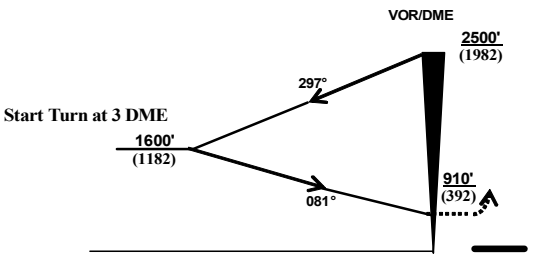
OCA/H	A	B	C
ST -IN RWY 26	910 ' (392) - 1600 mt		2000 mt
ALS OUT	Visibility 2000 mt		2400 mt
CIRCLING	1020 (502) - 2000 mt	1500 (982) - 2800 mt	1610 (1092) - 3700 mt
	NOT AUTHORIZED AT NIGHT		

FAF to MAPt 4.8 NM					
Knots	60	90	120	150	180
Min:Sec	4:48	3:12	2:24	1:55	1:36
Ft/min (@ 6%)	365	547	729	911	1094

PAPI does not coincide with the final approach gradient

INSTRUMENT APPROACH CHART - ICAO	AERODROME ELEV 518' TRANS LEVEL: FL150 TRANS ALT: 13500 ft.	TWR 118.3	NEPALGUNJ, NEPAL Nepalgunj Airport VOR RWY 08 VOR 'NGJ' 115.1

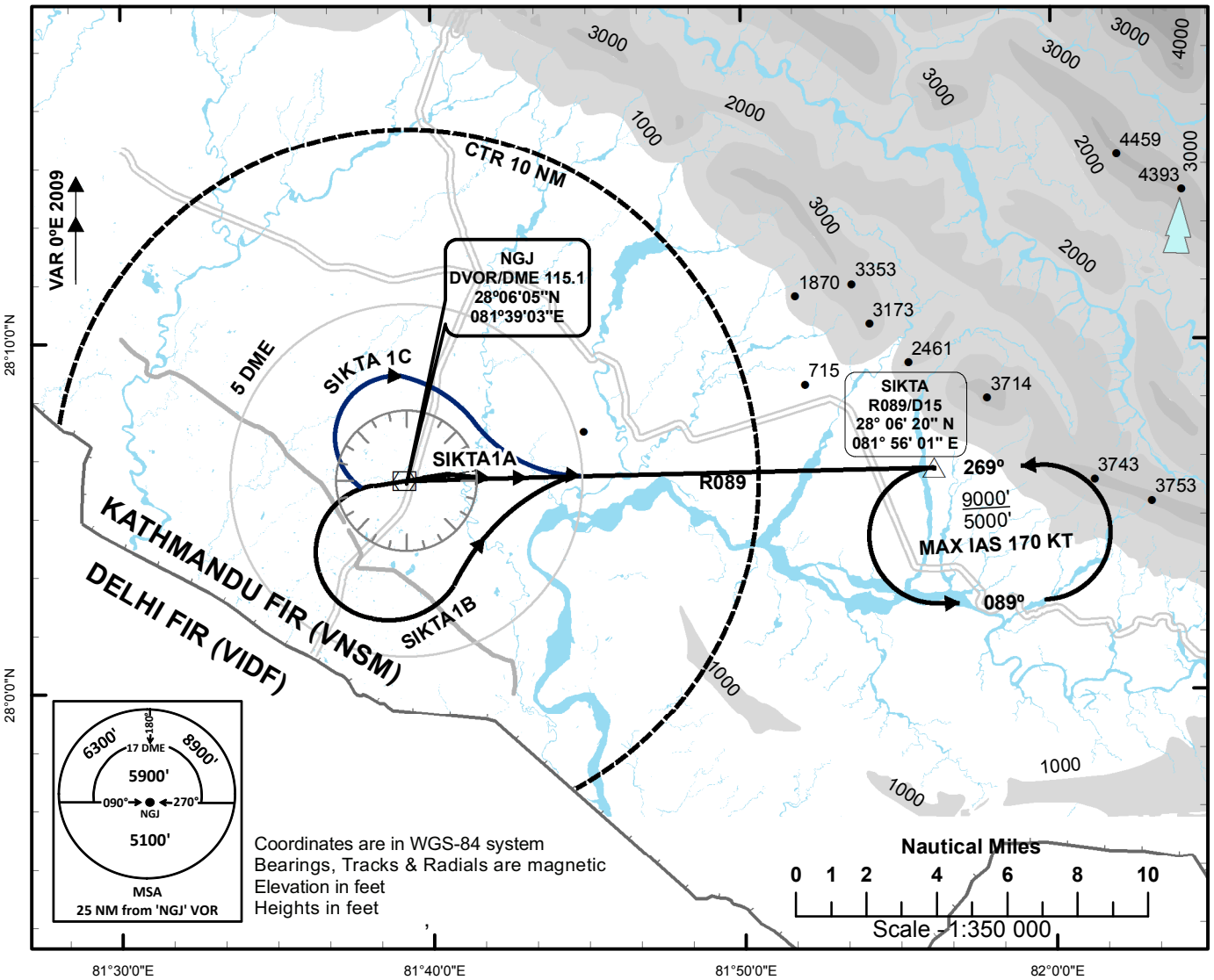




MISSED APPROACH:
CLIMB STRAIGHT AHEAD TO 1500'. TURN RIGHT TO JOIN 'NGJ' VOR HOLDING AT OR ABOVE 2500'.
THIS PROCEDURE REQUIRES CLIMB GRADIENT OF 3% IN MA.

OCA/H	A	B	C
ST-IN RWY 08	910 (392) - 2000 mt		2400 mt
CIRCLING	1020 (502) - 2000 mt	1500 (982) - 2800 mt	1610 (1092) - 3700 mt
	NOT AUTHORIZED AT NIGHT		

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO	AERODROME ELEV 518' TRANS LEVEL: FL150 TRANS ALT: 13500 ft.	TWR 118.3	NEPALGUNJ, NEPAL Nepalgunj Airport SIKTA1A, SIKTA1B SIKTA 1C VOR 'NGJ' 115.1



Minimum visibility required - 1600 m

SID SIKTA1A RWY 08 (PDG 5.3%)

AFTER DEPARTURE TURN RIGHT TO INTERCEPT R089 'NGJ' TO SIKTA (R089/D15) HOLDING AT OR ABOVE 5000'. CLIMB TO MEA.

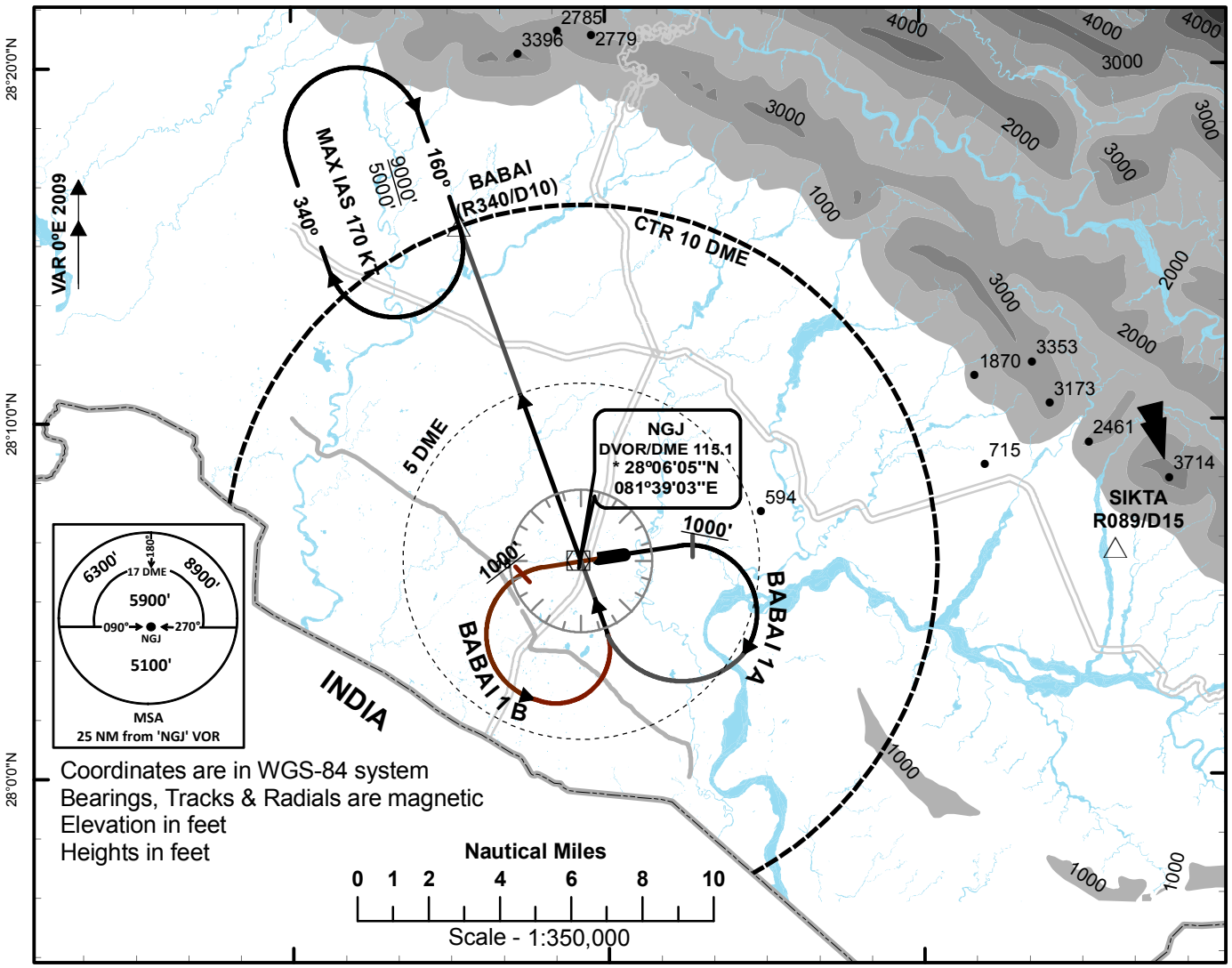
SID SIKTA1B RWY 26 (PDG 4.5%

CLIMB STRAIGHT AHEAD TO 1000'. TURN LEFT TO INTERCEPT R089 'NGJ' OUTBOUND BY 5 DME THEN PROCEED TO SIKTA (R089/D15) HOLDING AT OR ABOVE 5000'. CLIMB TO MEA.

SID SIKTA1C RWY 26 (PDG 4.5%)

CLIMB STRAIGHT AHEAD TO 1000'. TURN RIGHT TO INTERCEPT R089 'NGJ' OUTBOUND BY 5 DME THEN PROCEED TO SIKTA (R089/D15) HOLDING AT OR ABOVE 5000'. CLIMB TO MEA.

STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO	AERODROME ELEV 518' TRANS LEVEL: FL150 TRANS ALT: 13500 ft.	TWR 118.3	NEPALGUNJ, NEPAL Nepalgunj Airport BABAI 1A, BABAI 1B VOR 'NGJ' 115.1



Minimum visibility required - 1600 m

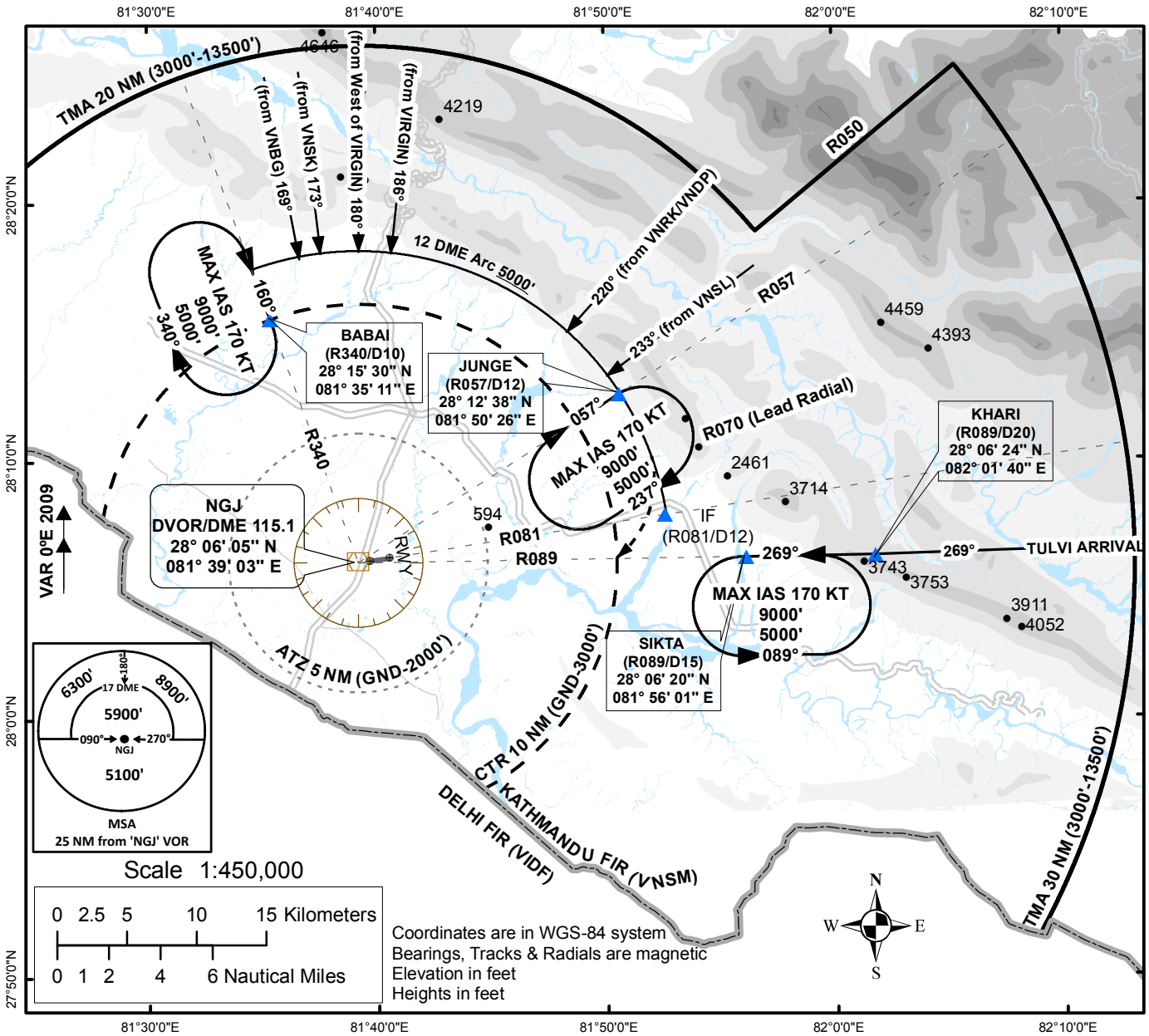
SID BABAI 1A RWY 08

DEPARTURE TURN LIMITED TO 180 KTS. MINIMUM PDG 5.0%
CLIMB STRAIGHT AHEAD TO 1000 FT. CLIMBING RIGHT TURN TO 'NGJ' AT OR ABOVE 2000 FT.
FOLLOW OUTBOUND R340 TO BABAI (R340/D10) AT OR ABOVE 5000 FT.

SID BABAI 1B RWY 26

DEPARTURE TURN LIMITED TO 180 KTS. MINIMUM PDG 5.0%
CLIMB STRAIGHT AHEAD TO 1000 FT. CLIMBING LEFT TURN TO 'NGJ' AT OR ABOVE 2000 FT.
FOLLOW OUTBOUND R340 TO BABAI (R340/D10) AT OR ABOVE 5000 FT.

STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO	AERODROME ELEV 518' TRANS LEVEL: FL150 TRANS ALT: 13500 ft. MAG VAR 0°E (2009)	TWR 118.3	NEPALGUNJ, NEPAL Nepalgunj Airport NORTH ARRIVAL, TULVI ARRIVAL VOR 'NGJ' 115.1



NORTH ARRIVAL

Aircraft can join 12 DME arc from any direction maintaining MSA and can descend to 5000 ft remaining in the arc.

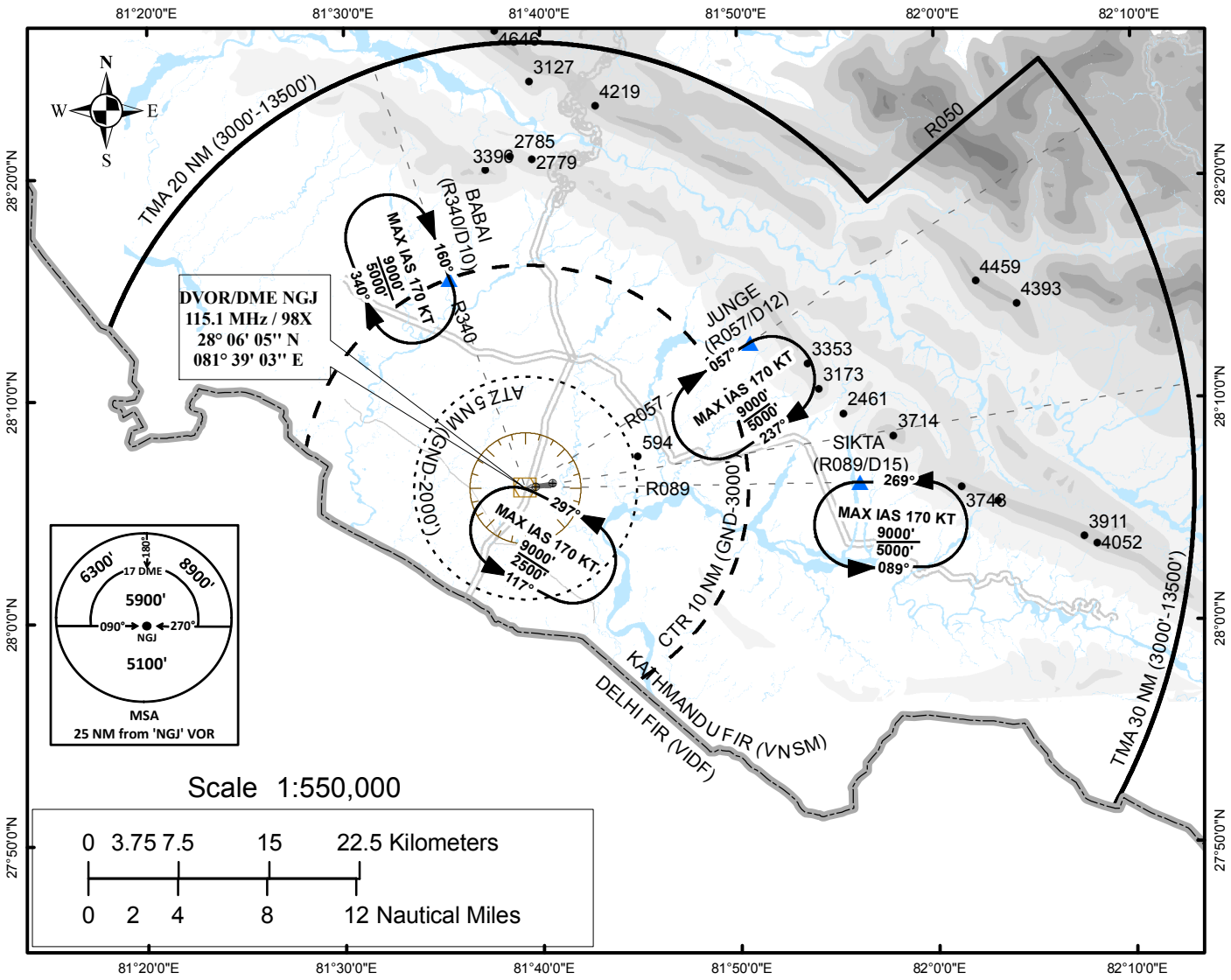
Applicable for VOR/DME y Rwy 26 approach and transitioning from one point to another.

TULVI ARRIVAL

From TULVI (R089/D34) track 269° to SIKTA (R089/D15).

Aircraft can leave 6000 ft to 5000 ft from KHARI (R089/D20).

TMA, CTR AND IFR HOLDING POINTS



Airspace	Lateral Dimension	Vertical Limit
ATZ	5 NM radius.	2000 ft AGL / GND
CTR	FIR Boundary towards South and 10 NM radius on rest of the sector	3000 ft AMSL / GND
TMA	FIR Boundary to the South and arc of a circle of 20 NM radius plus an area enclosed by R050 to FIR Boundary to the South upto 30 NM.	13500 ft AMSL / 3000 ft AMSL

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. 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	
VT0067	Tree	26°29'02.4"N	87°15'17.2"E	86/281	
VT0068	Tree	26°29'02.7"N	87°15'13.1"E	92/301	
VT0069	Tree	26°29'02.7"N	87°15'13.3"E	92/301	
VT0070	Tree	26°28'59.4"N	87°15'11.9"E	83/273	
VT0071	Tree	26°28'58.9"N	87°15'11.8"E	85/280	
VT0072	Tree	26°28'58.5"N	87°15'11.4"E	84/277	

VT0073	Tree	26°28'59.9"N	87°15'06.9"E	92/301	
VT0074	Tree	26°28'51.2"N	87°15'10.9"E	89/293	
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 - 021-461276

VNVT AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designation RWY NR	TRUE & MAG BRG	Dimensions of RWY (M)	Strength(PCN) and surface of RWY and SWY	THR Coordinates	THR elevation
1	2	3	4	5	6
09	092°	1500 x 30	37/F/D/Y/T Bitumen	262856.88N * 0871522.25E	73.7m (242 ft.)
27	272°	1500 x30	37/F/D/Y/T Bitumen	262855.06N* 0871616.34E	73.8 m (242 ft.)
Slope of RWY-SWY	SWY Dimensions (M)	CWY Dimensions (M)	Strip Dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
…….	…….	…….	. . . .	…….	…….

VNVT AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
09	1500	1500	1500	1500	
27	1500	1500	1500	1500	

VNVT AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT color WBAR	VASIS PAPI	LEN	RWY Center Line LGT Length, spacing color, INTST	RWY edge LGT LEN, spacing color INTST	RWY End LGT color	SWY LGT LEN (M) color	Remarks
1	2	3	4	5	6	7	8	9	10
09	SALS 420 M LIM	Green	PAPI Left/3.15°	NIL	NIL	1500m 60m White, LIM	Red	NIL	NIL
27	NIL	Green	PAPI Left/3.00°	NIL	NIL	1500m 60m White, LIM	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 Tower Building, G FLG ALTN with W EV 2 SEC/IBN: NIL H12
2.	LDI Location and LGT Anemometer Location and LGT	NIL
3.	TWY edge and Centre line lighting	Edge: All TWY Centre Line : NIL
4.	Secondary power supply / switch over time	Secondary power supply available for all lighting at AD. Additional UPS available forairfield lighting system. Switch over time: Automatic
5.	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	Biratnagar CTR: 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 Biratnagar ATZ: 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 GND	2000' AGL 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 MAG VAR Type of supported OP (for VOR/ILS/MLS give declinations)	ID	Frequency	OPR Hours	Position of Transmitting Antenna Coordinates	Elevation of DME Transmitting Antenna	Remarks
1	2	3	4	5	6	7
DVOR/DME 0° W	BRT	114.1 MHZ CHN 88 X	H24	262858N* 0871458E	87 m	DVOR Range 100NM DME Range 100NM

VNVT AD 2.20 LOCAL TRAFFIC REGULATIONS

To be Developed

VNVT AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

** WGS -84 Coordinates*

VNVT AD 2.22 FLIGHT PROCEDURES

Intentionally Blank

VNVT AD 2.23 ADDITIONAL INFORMATION

1. Bird Activity

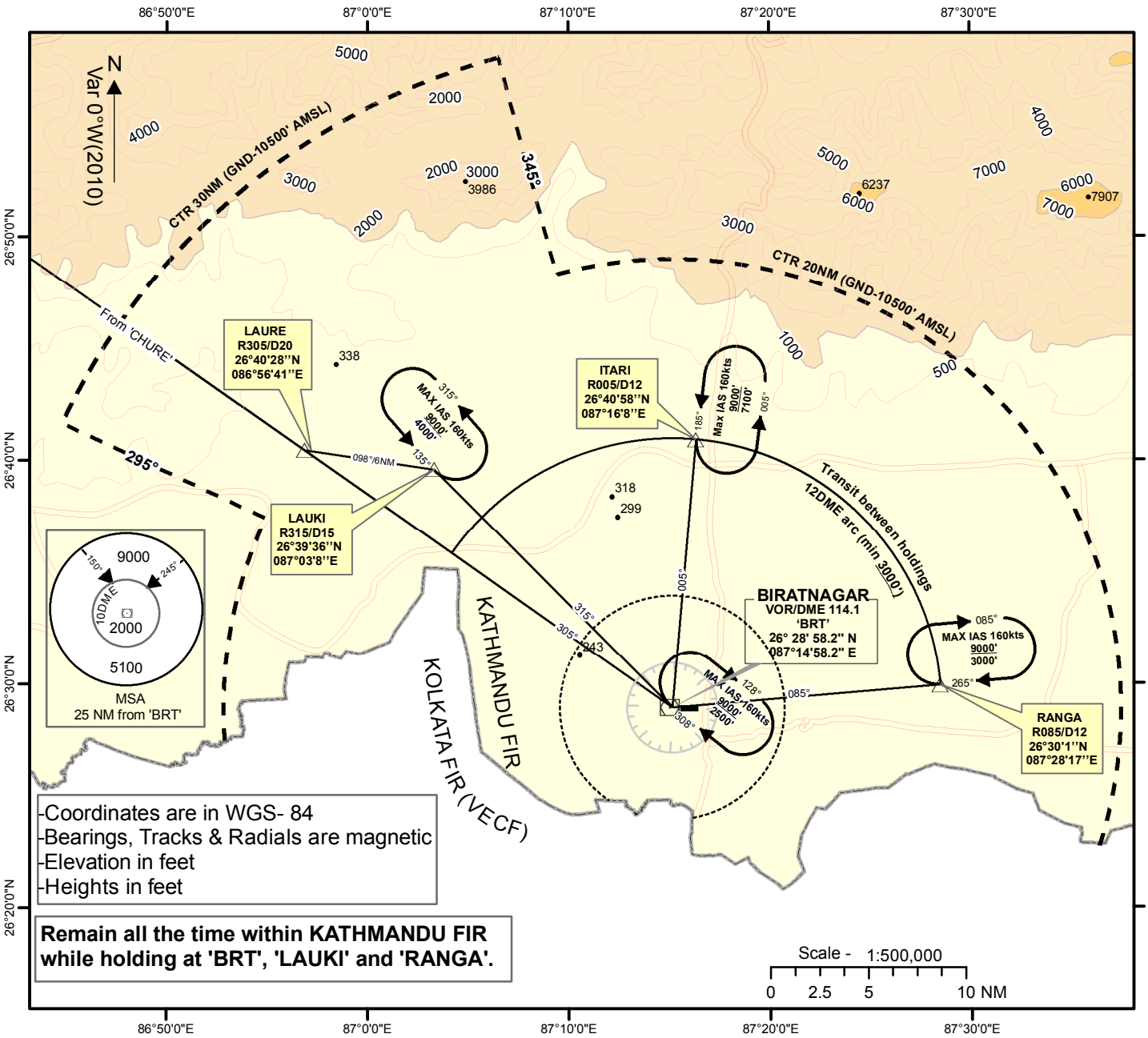
a) Sometimes cases of bird concentrations in the vicinity of aerodrome may be encountered.
b) 2. No Special procedures have been adopted to control these bird concentrations except driving them through guards and security personnel.

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, 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 2-20 VNVT AD 2-21
Standard Arrival Chart – Instrument (STAR) - ICAO - BASIC RNP 1 STAR, CHURE 1 ARRIVAL VNVT AD 2-22
Instrument Approach Chart – ICAO RNP RWY 09 VNVT AD 2-23
Aerodrome Chart VNNT AD 2-24

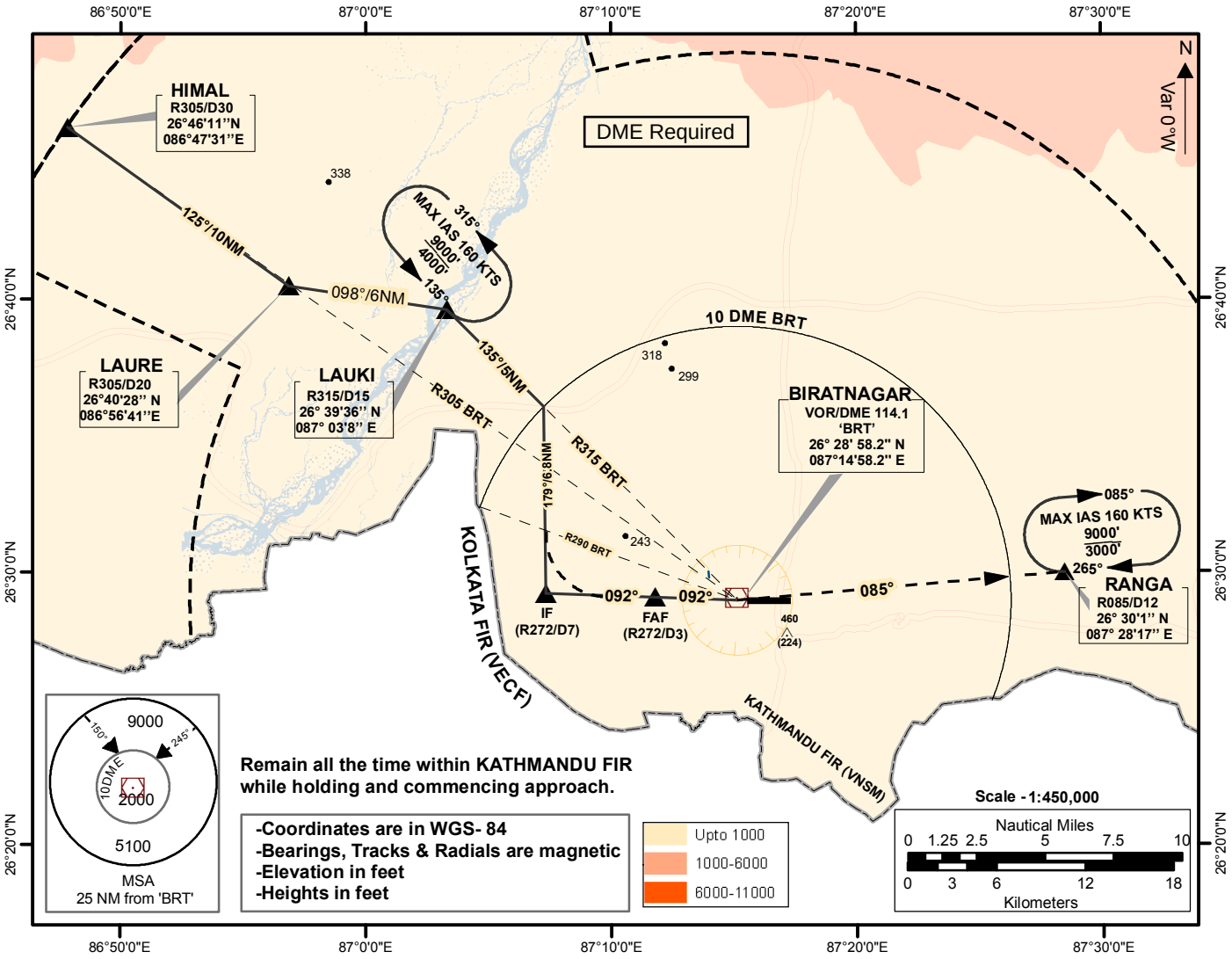
AERODROME ELEV 246' **TRANS LEVEL: FL150** **TRANS ALT: 13500 ft.** **Mag Var. 0°W (2010)**	**TWR 123.8**	**BIRATNAGAR, NEPAL** **Biratnagar Airport** **VOR 'BRT' 114.1** **NDB 'VTN' 358**

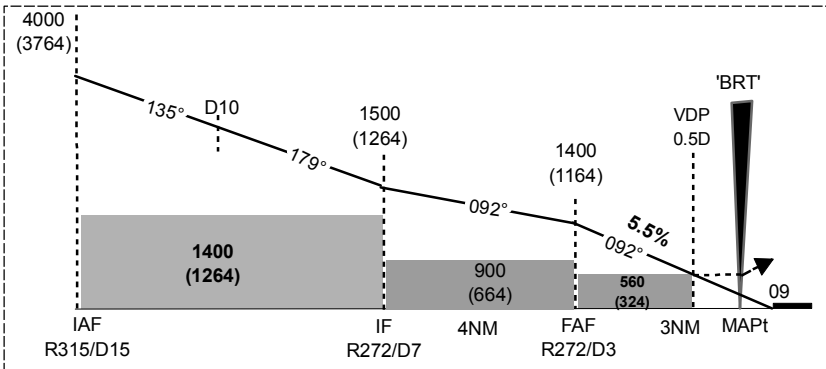
CONTROL ZONE AND IFR HOLDING POINTS



	NAV FAC	FRQ	COORDINATE
-'LAUKI' and 'RANGA' holdings are laterally separated from each other - 'LAUKI' and 'BRT' holdings are laterally separated from each other	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



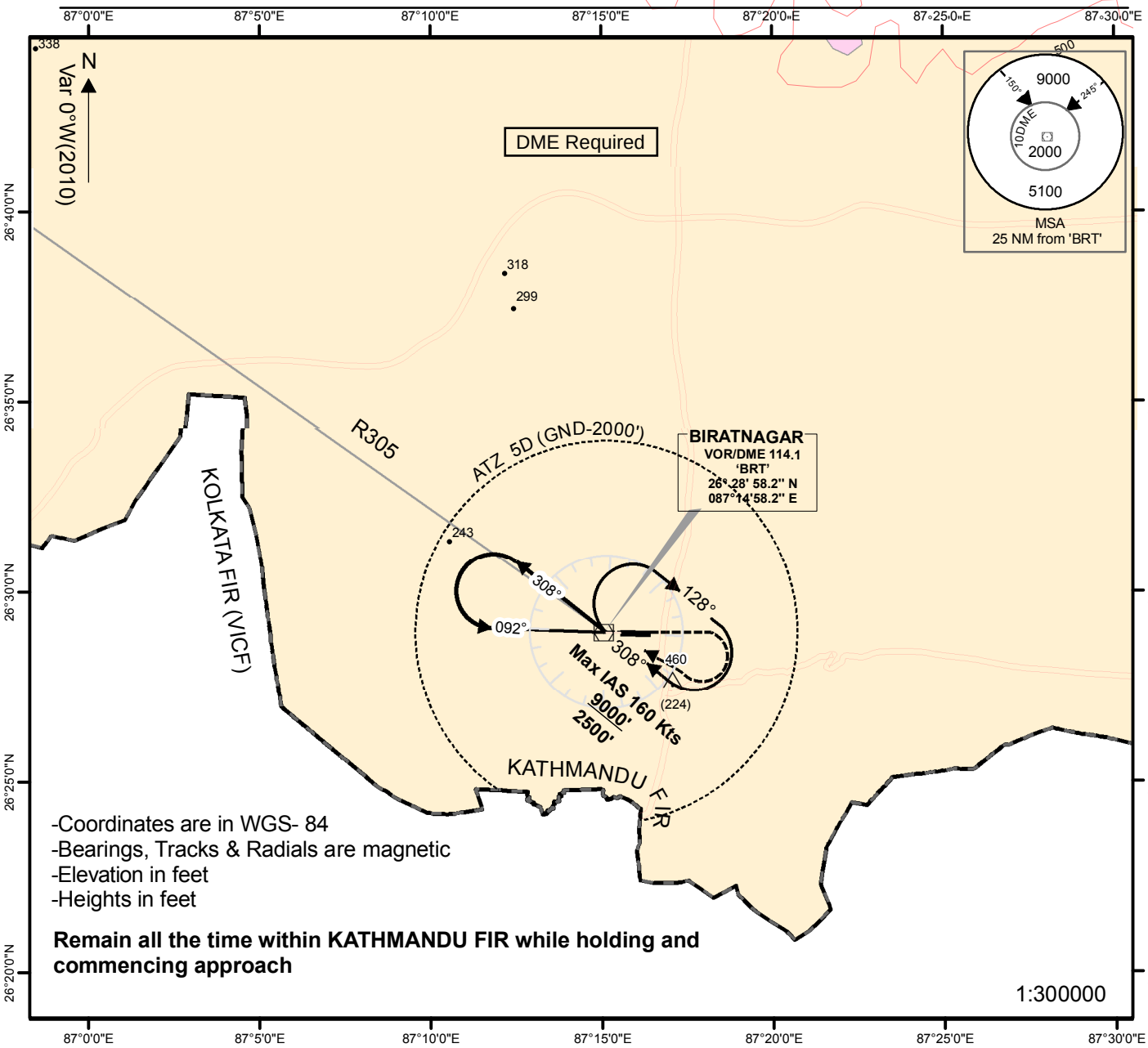


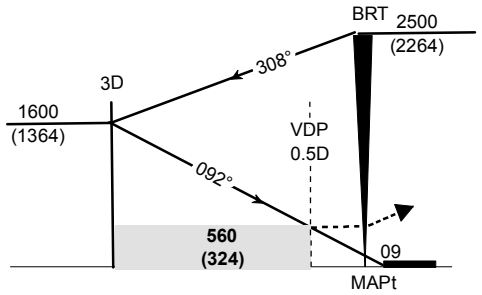
MISSED APPROACH
AT 'BRT', TURN LEFT TO INTERCEPT R085 OUTBOUND TO RANGA. REACH RANGA AT OR ABOVE 3000' or as instructed by ATC

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	NA
	NOT AUTHORIZED AT NIGHT			

FAF to TH09 3.3 NM					
Knots	60	90	120	150	180
Min:Sec	3:18	2:12	1:39	1:19	1:06
Ft/ min @5.5%	330	500	670	840	1000

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

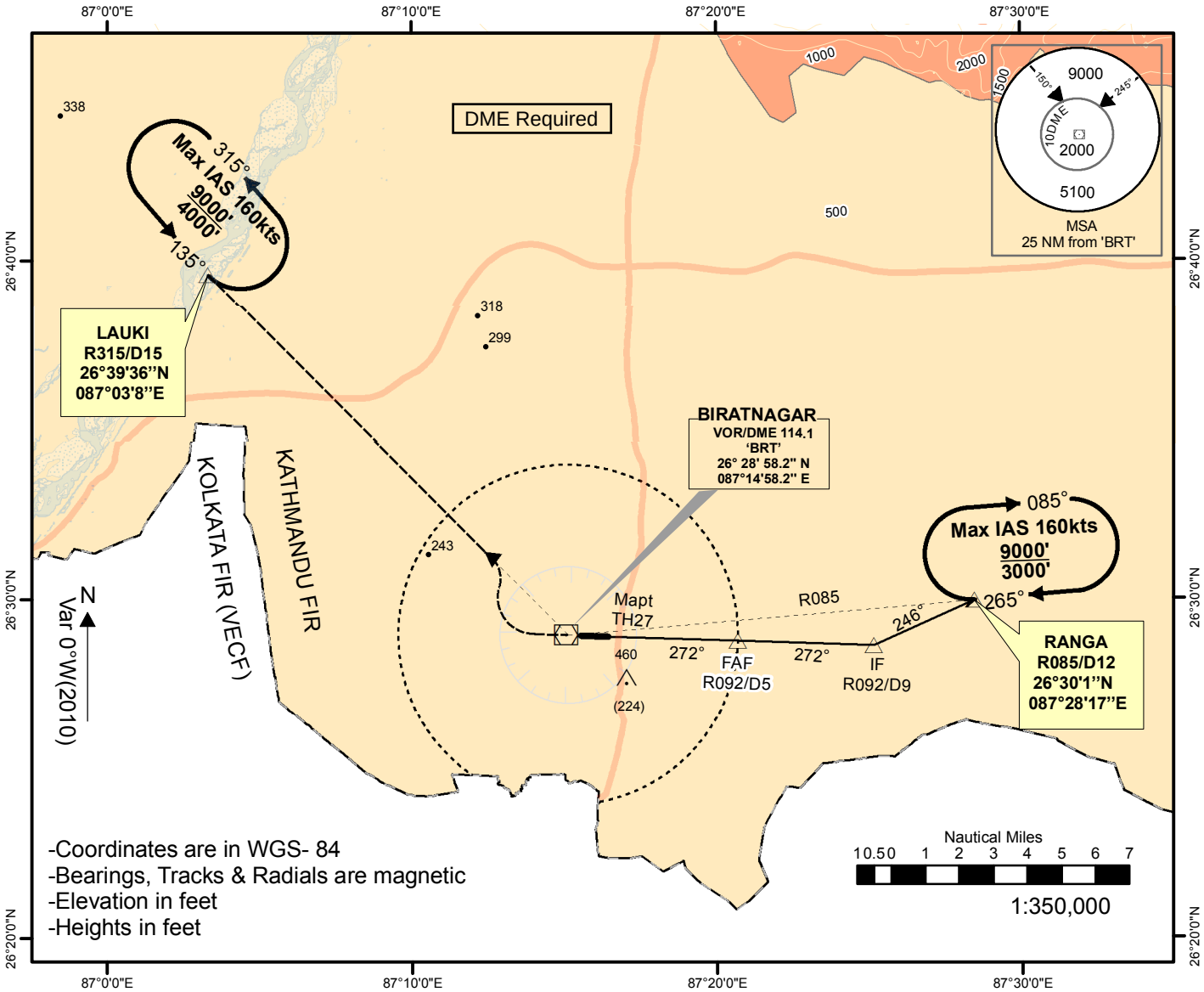




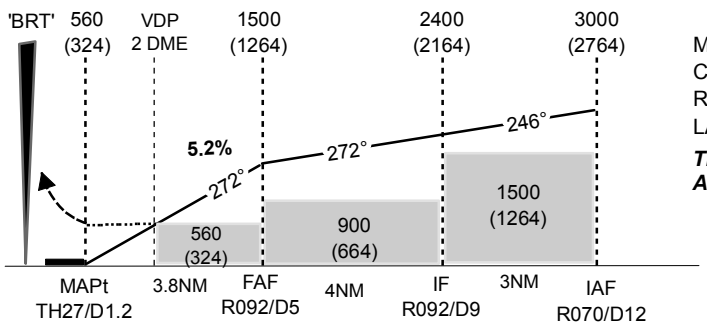
MISSED APPROACH
CLIMB STRAIGHT AHEAD TO 1000'. TURN RIGHT TO JOIN 'BRT' HOLDING PATTERN. REACH 'BRT' AT OR ABOVE 2500'

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 - ICAO	AERODROME 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

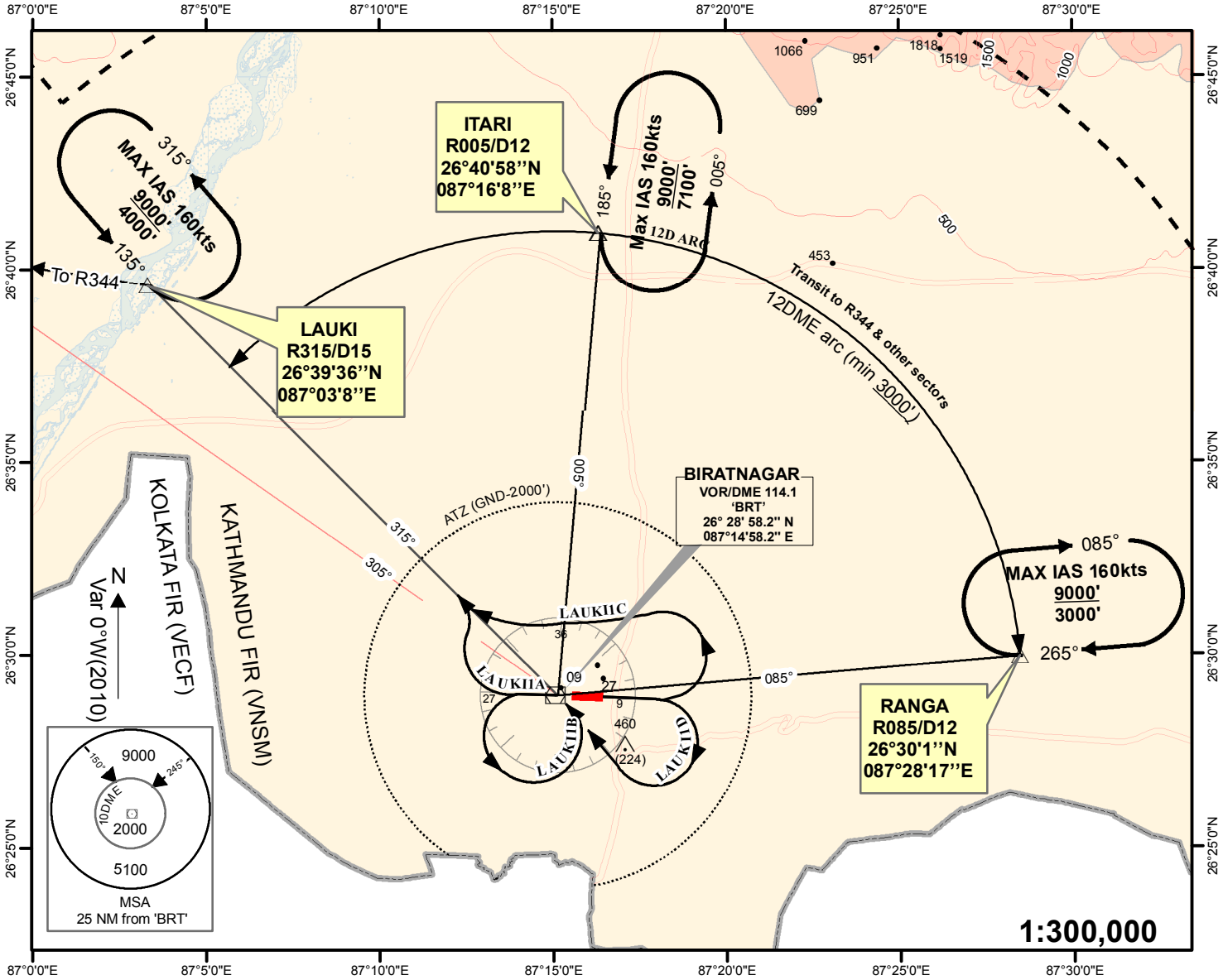


MISSED APPROACH
CLIMB STRAIGHT AHEAD TO 'BRT'. TURN RIGHT TO INTERCEPT R315 OUTBOUND TO LAUKI. REACH LAUKI AT OR ABOVE 4000'.

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

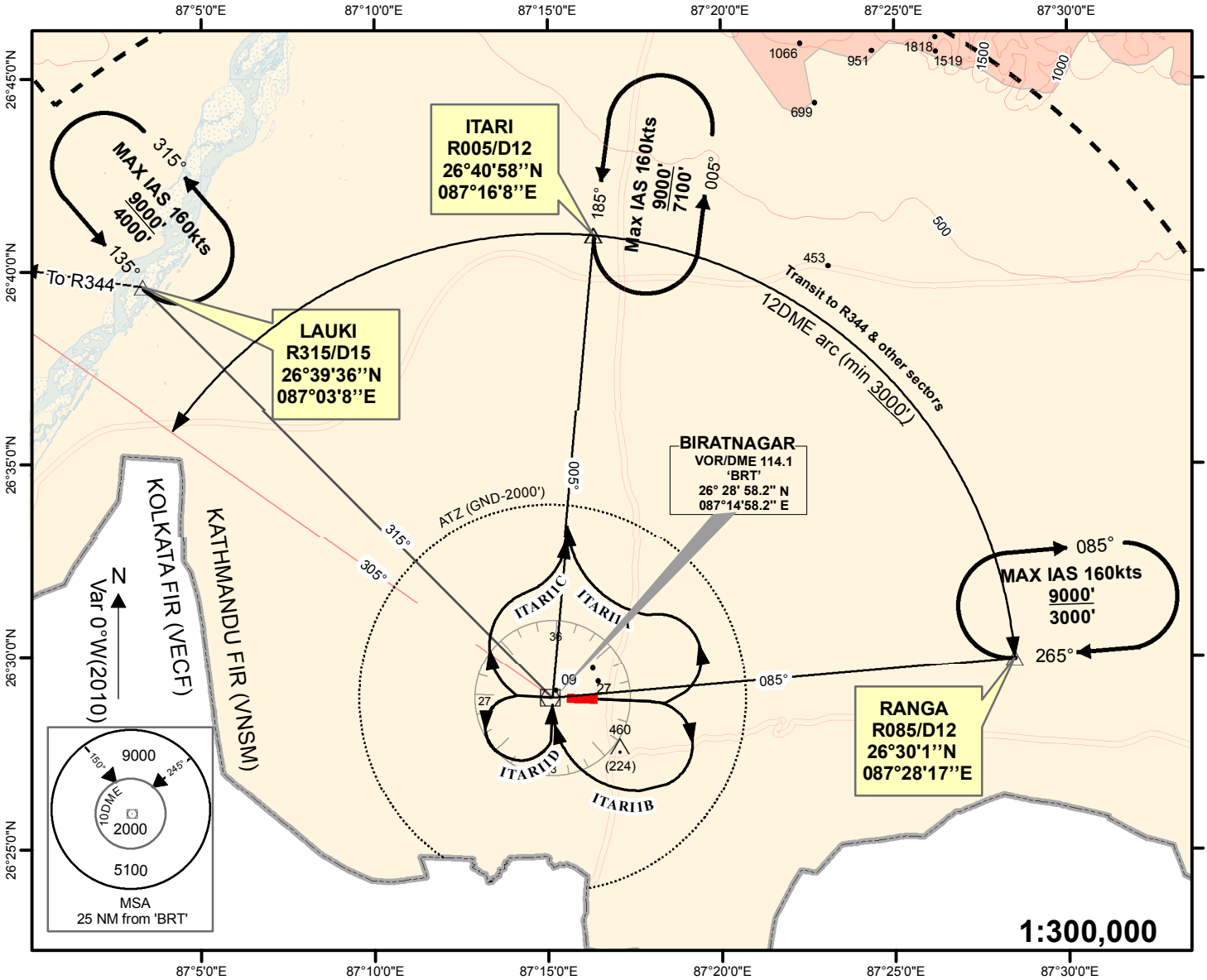


Minimum visibility required - 1600 m

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.

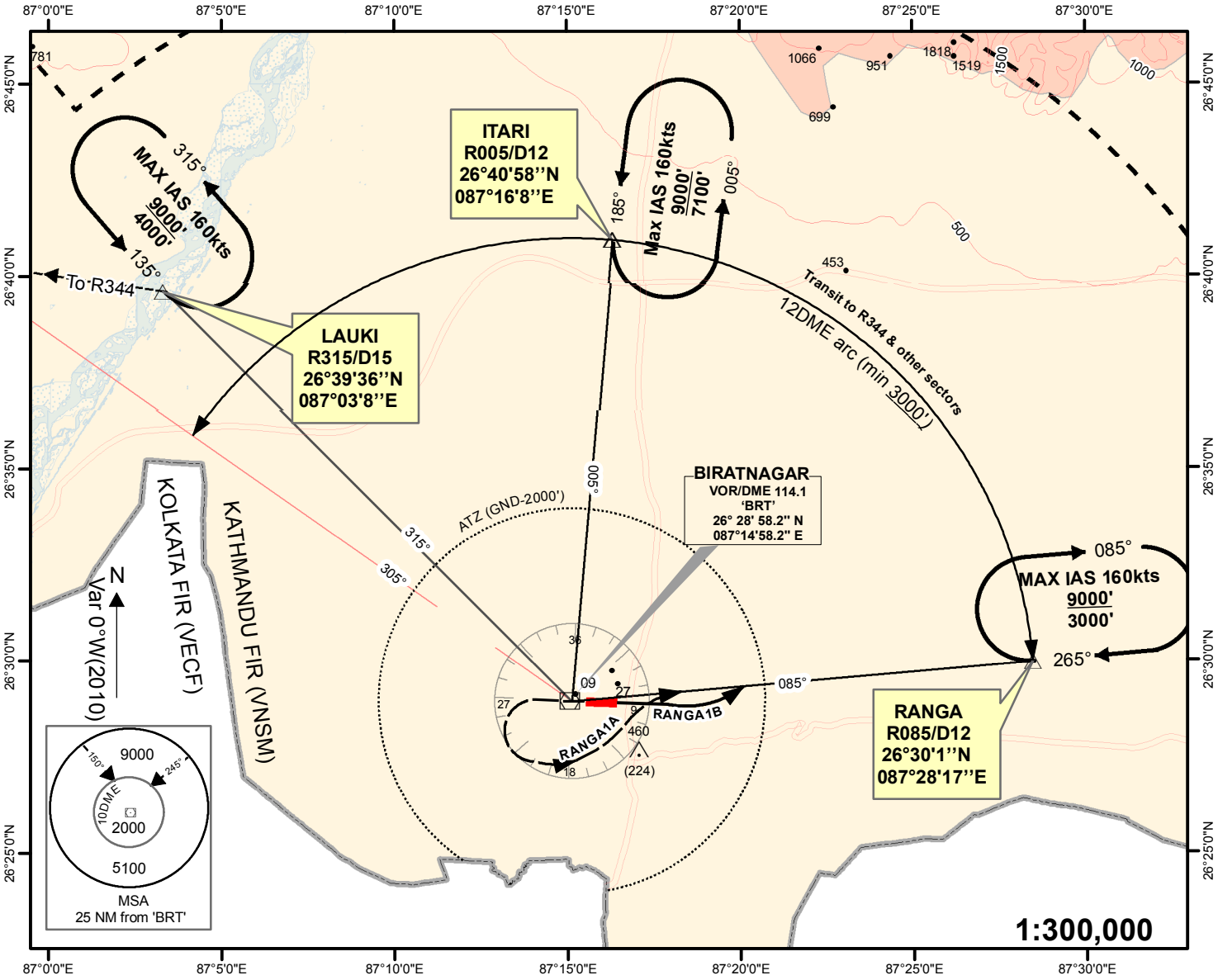
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO	AERODROME ELEV 246' TRANS LEVEL: FL150 TRANS ALT: 13500 ft. TWR 123.8	BIRATNAGAR, NEPAL Biratnagar Airport ITARI 1A, ITARI 1B, ITARI 1C, ITARI 1D 'BRT' VOR 114.1



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'

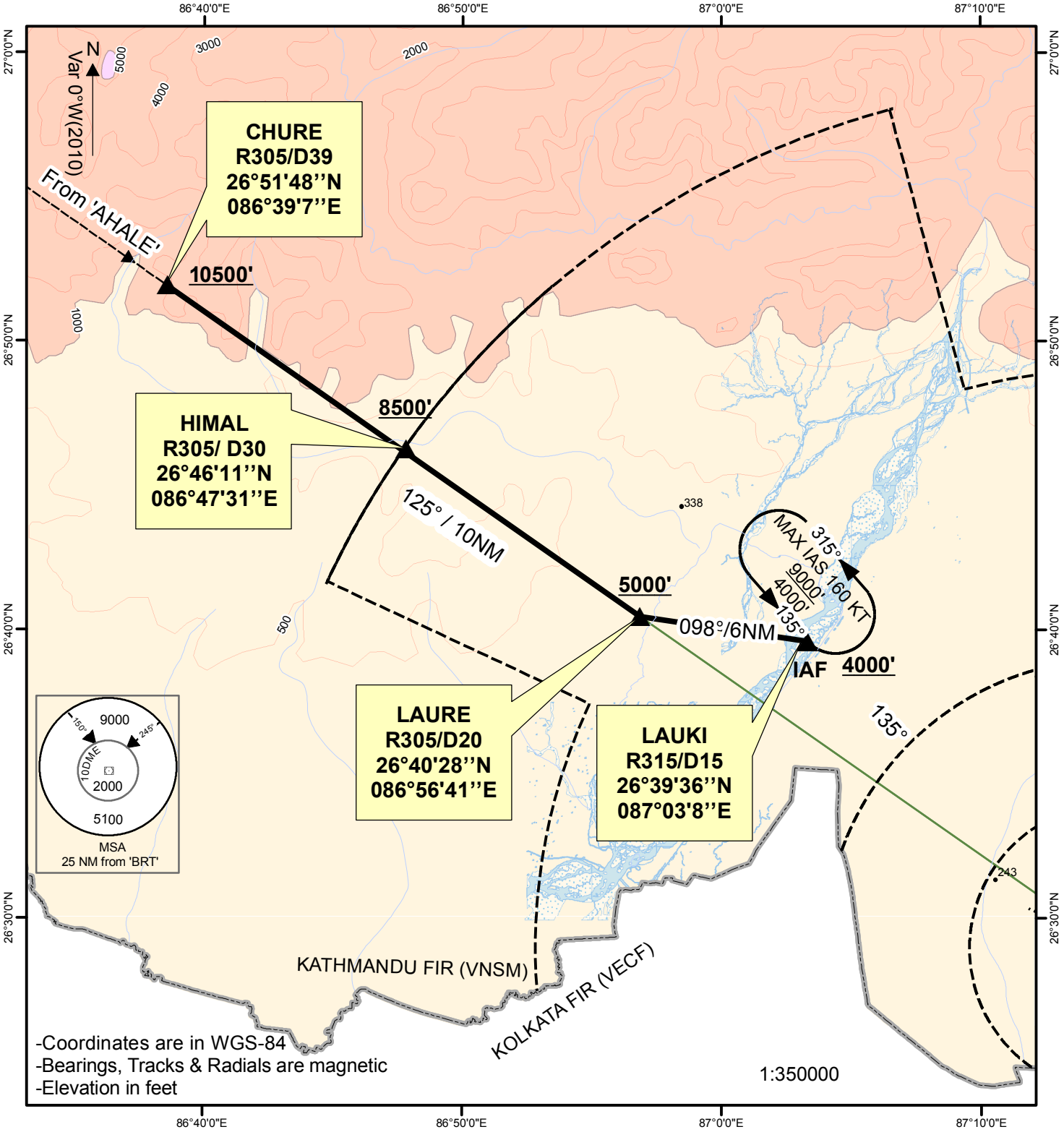
STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO	AERODROME ELEV 246' TRANS LEVEL: FL150 TRANS ALT: 13500 ft. TWR 123.8	BIRATNAGAR, NEPAL Biratnagar Airport RANGA 1A, RANGA 1B 'BRT' VOR 114.1



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

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.

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, 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 and one RNP Approach (LNAV only) procedure to Biratnagar Runway 09 and are named in accordance with the ICAO naming convention as tabulated below.

RWY	STAR	RNP Approach
09	CHURE 1	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.

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."1E
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

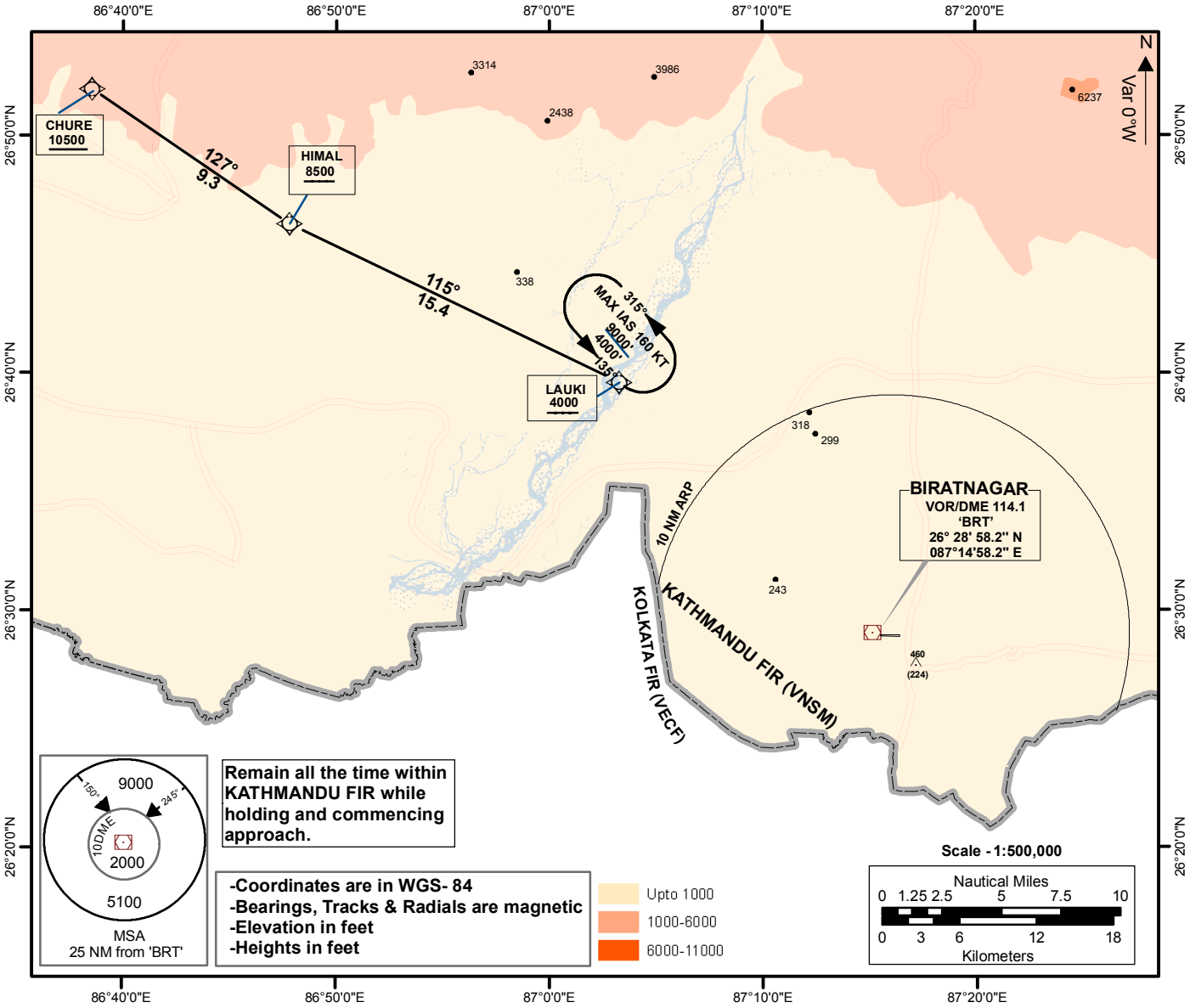
6. STAR coding Table

W/P ID	W/P Description	Path Terminator	TD	CRS (°) mag	DIST (NM)	ALT (FT)	SPD (KTS)	Rem arks
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	

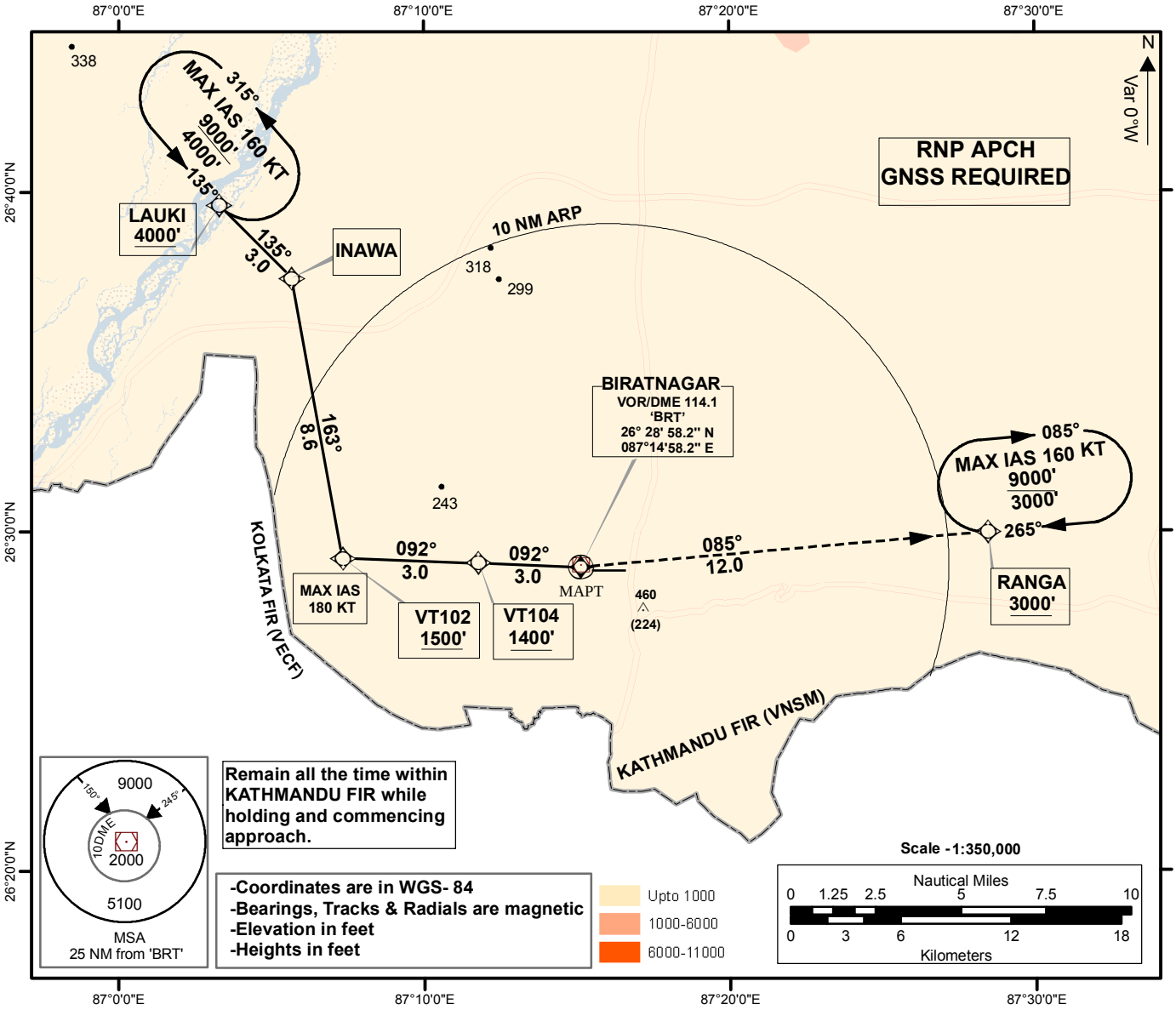
STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO	AERODROME ELEV 246' TRANS LEVEL: FL150 TRANS ALT: 13500 ft. Mag Var. 0°W (2010)	TWR 123.8	BIRATNAGAR, NEPAL Biratnagar Airport BASIC RNP-1 STAR CHURE 1 ARRIVAL

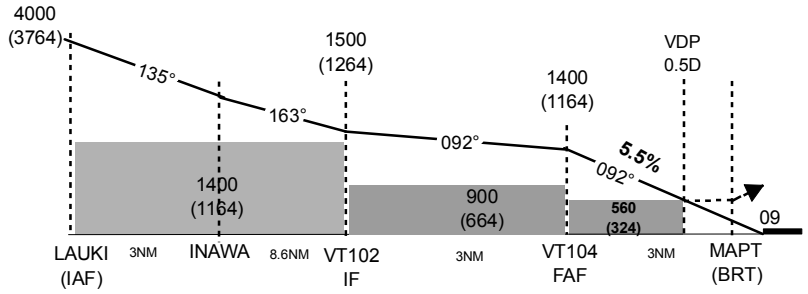


CHURE 1 ARRIVAL

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 - ICAO	AERODROME 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)



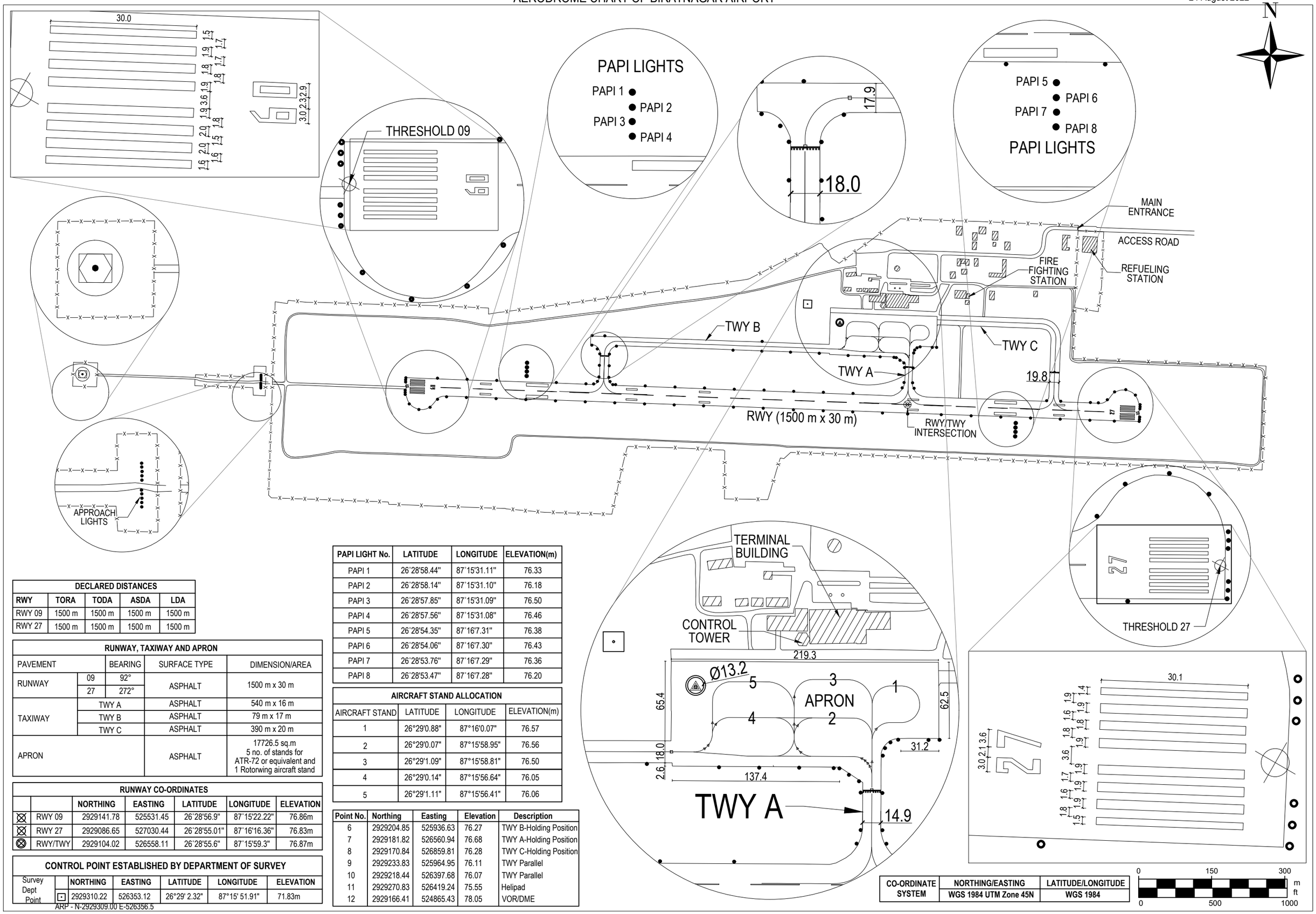


MISSED APPROACH: (Climb Gradient 4%). AT MAPT, TURN LEFT HDG 085° TO RANGA. REACH RANGA AT OR ABOVE 3000' OR AS INSTRUCTED BY ATC.

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	NA
	NOT AUTHORIZED AT NIGHT			

FAF to TH09 3.3 NM					
Knots	60	90	120	150	180
Min:Sec	3:18	2:12	1:39	1:19	1:06
Ft/ min @5.5%	330	500	670	840	1000

AERODROME CHART OF BIRATNAGAR AIRPORT



DECLARED DISTANCES				
RWY	TORA	TODA	ASDA	LDA
RWY 09	1500 m	1500 m	1500 m	1500 m
RWY 27	1500 m	1500 m	1500 m	1500 m

RUNWAY, TAXIWAY AND APRON				
PAVEMENT		BEARING	SURFACE TYPE	DIMENSION/AREA
RUNWAY	09	92°	ASPHALT	1500 m x 30 m
	27	272°		
TAXIWAY	TWY A		ASPHALT	540 m x 16 m
	TWY B		ASPHALT	79 m x 17 m
	TWY C		ASPHALT	390 m x 20 m
APRON			ASPHALT	17726.5 sq.m 5 no. of stands for ATR-72 or equivalent and 1 Rotorwing aircraft stand

RUNWAY CO-ORDINATES						
		NORTHING	EASTING	LATITUDE	LONGITUDE	ELEVATION
⊠	RWY 09	2929141.78	525531.45	26°28'56.9"	87°15'22.22"	76.86m
⊠	RWY 27	2929086.65	527030.44	26°28'55.01"	87°16'16.36"	76.83m
⊗	RWY/TWY	2929104.02	526558.11	26°28'55.6"	87°15'59.3"	76.87m

CONTROL POINT ESTABLISHED BY DEPARTMENT OF SURVEY						
Survey Dept Point		NORTHING	EASTING	LATITUDE	LONGITUDE	ELEVATION
	⊡	2929310.22	526353.12	26°29' 2.32"	87°15' 51.91"	71.83m

ARP - N-2929309.00 E-526356.5

PAPI LIGHT No.	LATITUDE	LONGITUDE	ELEVATION(m)
PAPI 1	26°28'58.44"	87°15'31.11"	76.33
PAPI 2	26°28'58.14"	87°15'31.10"	76.18
PAPI 3	26°28'57.85"	87°15'31.09"	76.50
PAPI 4	26°28'57.56"	87°15'31.08"	76.46
PAPI 5	26°28'54.35"	87°16'7.31"	76.38
PAPI 6	26°28'54.06"	87°16'7.30"	76.43
PAPI 7	26°28'53.76"	87°16'7.29"	76.36
PAPI 8	26°28'53.47"	87°16'7.28"	76.20

AIRCRAFT STAND ALLOCATION			
AIRCRAFT STAND	LATITUDE	LONGITUDE	ELEVATION(m)
1	26°29'0.88"	87°16'0.07"	76.57
2	26°29'0.07"	87°15'58.95"	76.56
3	26°29'1.09"	87°15'58.81"	76.50
4	26°29'0.14"	87°15'56.64"	76.05
5	26°29'1.11"	87°15'56.41"	76.06

Point No.	Northing	Easting	Elevation	Description
6	2929204.85	525936.63	76.27	TWY B-Holding Position
7	2929181.82	526560.94	76.68	TWY A-Holding Position
8	2929170.84	526859.81	76.28	TWY C-Holding Position
9	2929233.83	525964.95	76.11	TWY Parallel
10	2929218.44	526397.68	76.07	TWY Parallel
11	2929270.83	526419.24	75.55	Helipad
12	2929166.41	524865.43	78.05	VOR/DME