

AD 2. AERODROME

VNJP AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VNJP – JANAKPUR/Domestic

VNJP AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	ARP Coordinates and site at AD	264239 N 0855528 E
2.	Direction and Distance from (city)	1. Km, South of Janakpur City
3.	Elevation/Reference Temperature	233.2 ft (71.1m)/40°C (June)
4.	MAG VAR/Annual Change	0°E
5.	AD Administration, address Telephone, Telefax, Telex AFS	Civil Aviation Authority of Nepal Janakpur Civil Aviation Office, Janakpurdham, Dhanusha Te1- 977-041-590057 Hot Line - 977-041- 590053 Tower - 977-041-590052 AFS - VNJPZTZX Email : janakpur_cao@caanepal.gov.np
6.	Types of traffic permitted (IFR/VFR)	VFR/IFR
7.	Remarks	-

VNJP 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 provided during ATS Operation Hours.
7.	ATS	<i>1) From 16 Feb - 15 Nov (0015 - 1815) UTC</i> <i>2) From 16 Nov - 15 Feb (0045 - 1815) UTC</i>
8.	Fuelling	During operation hours.
9.	Handling (Cargo)	NIL
10.	Security	H-24
11.	Remarks	Any change will be notified by NOTAM

* WGS 84 Coordinates

VNJP AD 2.4 HANDLING SERVICES AND FACILITIES

1.	Cargo-handling facilities	Available with local airlines operator
2.	Fuel/Oil Types	JET A1/ Not Available
3.	Fuelling facilities/capacity	Storage Capacity (KL): Bonded Tank I - 30 KL Bonded Tank II - 30 KL Storage Type: Bonded Tank Refueller Details: AR 40 (16KL)
4.	De-icing facilities	NIL
5.	Hangar space for visiting aircraft	NIL
6.	Repair facilities for visiting aircraft	NIL
7.	Remarks	-

VNJP AD 2.5 PASSENGER FACILITIES

1.	Hotels	in the city
2.	Restaurants	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	NIL
6.	Tourist Office	In the city.
7.	Remarks	-

VNJP AD 2.6 RESCUE AND FIRE FIGHTING SERVICE

1.	AD category for fire fighting	Nil
2.	Rescue equipment	Available
3.	Capability for removal of disabled aircraft	Nil
4.	Remarks	Small Fire Vehicle (Buffalo) and wheel type of fire extinguishers available.

VNJP AD 2.7 SEASONAL AVAILABILITY

Aerodrome available throughout the year.

VNJP AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATION DATA

1.	Apron surface and strength	Surface -Asphalt Concrete, Strength - 10/F/C/Y/T
2.	Taxiway width, surface and strength	Width -20m, Surface - Asphalt Concrete, Strength - 22/F/C/Y/T
3.	Altimeter check point location and elevation	Location:-At Apron Elevation :-233 ft.
4.	VOR/INS checkpoints	NIL
5.	Remarks	-

VNJP 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. RWY: 09/27, THR edge and RWY end have Lights. TWY edge with blue lights. TWY: Center line, holding positions at all TWY/RWY intersections marked.
3.	Stop bars
4.	Remarks	-

VNJP AD 2.10 AERODROME OBSTACLES

A. List of Obstacle Data 2018 (Janakpur Airport)

S. No.	Obstacle Name	Obstacle ID	WGS-84 Coordinates		Top Elevation (m)	Remarks
			Latitude	Longitude		
1	ATC Tower (New)	JP3002	26°42'40.4"N	85°55'26.4"E	97.5	
2	VHF Antenna Mast	JP3003	26°42'41.2"N	85°55'27.8"E	92.6	
3	NDB Mast-1	JP3004	26°42'40.9"N	85°55'18.6"E	89.0	
4	NDB Mast-2	JP3005	26°42'40.9"N	85°55'21.8"E	88.9	
5	Old NDB Mast-1	JP3006	26°42'52.4"N	85°55'40.6"E	92.8	
6	Old NDB Mast-2	JP3007	26°42'52.7"N	85°55'42.5"E	94.6	
7	Old NDB Mast-3	JP3008	26°42'55.0"N	85°55'42.8"E	95.1	
8	Office Quarter	JP3009	26°42'43.3"N	85°55'32.3"E	83.1	
9	Fire Station	JP3010	26°42'38.6"N	85°55'30.7"E	79.5	
10	Flood Light	JP3011	26°42'37.8"N	85°55'25.9"E	80.8	
11	Water Tank	JP3012	26°42'39.1"N	85°55'21.9"E	83.7	
12	House	JP3013	26°42'43"N	85°55'30.5"E	81.2	
13	Tree	JP3014	26°42'42.1"N	85°55'33.2"E	86.1	
14	Tree	JP3015	26°42'36.6"N	85°55'40.7"E	86.3	
15	NTC Tower	JP3016	26°42'37.1"N	85°55'41.8"E	82.0	
16	House	JP3017	26°42'39.8"N	85°55'41.5"E	80.6	
17	Tree	JP3018	26°42'29.7"N	85°55'44.5"E	75.9	
18	Tree	JP3020	26°42'38.2"N	85°55'47.7"E	99.1	
19	Hut	JP3024	26°42'32.8"N	85°55'48.2"E	75.7	
20	House	JP3027	26°42'30.5"N	85°55'51.4"E	80.0	
21	House	JP3029	26°42'29.7"N	85°55'49.3"E	81.6	
22	Electric Pole	JP3030	26°42'29.5"N	85°55'48.5"E	79.4	

24	Pillar on House Top	JP3031	26°42'28.6"N	85°55'48.3"E	78.9	
25	House	JP3033	26°42'29.3"N	85°55'48.1"E	76.3	
26	Tree	JP3037	26°42'25.8"N	85°55'44.1"E	89.3	
27	Tree	JP3039	26°42'24.2"N	85°55'38"E	94.9	
28	Tree	JP3040	26°42'24.9"N	85°55'36.5"E	93.5	
29	Tree	JP3041	26°42'28.3"N	85°55'38.7"E	81.3	
30	Tree	JP3042	26°42'27.3"N	85°55'37.9"E	85.8	
31	Tree	JP3043	26°42'28.0"N	85°55'34.1"E	80.3	
32	Tree	JP3044	26°42'26.9"N	85°54'57.2"E	93.6	
33	Tree	JP3047	26°42'22"N	85°54'51.1"E	95.8	
34	Tree	JP3048	26°42'23.8"N	85°54'48.7"E	89.4	
35	Tree	JP3049	26°42'22.8"N	85°54'46.4"E	87.0	
36	House	JP3050	26°42'23.8"N	85°54'46"E	77.7	
37	Tree	JP3052	26°42'27.2"N	85°54'45.7"E	85.5	
39	House	JP3054	26°42'28.7"N	85°54'46.7"E	74.0	
40	House	JP3057	26°42'28.4"N	85°54'43.9"E	75.9	
42	Tree	JP3059	26°42'27.9"N	85°54'39.1"E	84.4	
44	Tree	JP3061	26°42'30.0"N	85°54'30.0"E	84.8	
45	Tree	JP3062	26°42'30.7"N	85°54'31.2"E	85.5	
46	Tree	JP3063	26°42'32.2"N	85°54'40"E	81.7	
47	House	JP3064	26°42'33"N	85°54'48"E	73.8	
48	Tree	JP3065	26°42'36.8"N	85°54'37.3"E	83.9	
49	Tree	JP3066	26°42'43.4"N	85°54'7.7"E	99.4	
50	Tree	JP3067	26°42'37.6"N	85°54'37.8"E	79.6	
51	Tree	JP3068	26°42'47.6"N	85°54'9.6"E	97.6	
52	Tree	JP3069	26°42'39.7"N	85°54'36.6"E	84.7	
53	Chimney	JP3070	26°43'8.9"N	85°53'29.6"E	101.4	
54	Tree	JP3071	26°42'38.2"N	85°54'44.6"E	83.5	
55	Tree	JP3072	26°42'45.9"N	85°54'34.6"E	87.6	
56	Tree	JP3073	26°42'41.6"N	85°54'41.7"E	86.1	
57	Temple	JP3074	26°42'37.6"N	85°54'50.1"E	83.1	
58	Tree (near temple)	JP3075 ²	26°42'37.4"N	85°54'50.7"E	84.1	
59	Tree	JP3076	26°42'41.3"N	85°54'53.2"E	87.6	
60	Tree	JP3077	26°42'40.4"N	85°54'55.7"E	90.5	
61	Tree	JP3078	26°42'41.6"N	85°55'1.1"E	89.2	
62	Tree	JP3079	26°42'37.9"N	85°55'0.9"E	92.0	
63	House	JP3080	26°42'46.1"N	85°55'10.1"E	83.6	
64	House	JP3081	26°42'39.6"N	85°55'7.3"E	79.9	
65	Tree	JP3082	26°42'42.7"N	85°55'18"E	99.0	
66	Tree	JP3083	26°42'36.1"N	85°55'6.0"E	85.1	
67	Tree	JP3084	26°42'27.2"N	85°55'21.9"E	91.6	
68	Tree	JP3085	26°42'27.6"N	85°55'19.8"E	90.1	
69	Chimney	JP3086	26°42'3.1"N	85°55'16.4"E	97.5	
70	Tree	JP3087	26°42'27.6"N	85°55'17.5"E	92.9	

71	Tree	JP3088	26°42'27.4"N	85°55'15.5"E	88.4	
72	Tree	JP3089	26°42'27.4"N	85°55'9.2"E	90.1	
73	Tree	JP3090	26°42'28.1"N	85°55'6.1"E	95.4	
74	Tree	JP3091	26°42'36.9"N	85°55'16.3"E	83.9	
75	Tree	JP3092	26°42'42.2"N	85°55'16.5"E	98.0	
76	Tree	JP3093	26°42'43.0"N	85°55'21.4"E	91.3	
77	Mobile Tower	JP3094	26°42'44.8"N	85°55'50.3"E	92.9	
78	Water Tank	JP3095	26°42'41.5"N	85°55'45"E	86.8	
79	House	JP3096	26°42'40.5"N	85°55'41.3"E	81.2	
80	District Education Office	JP3097	26°42'23.3"N	85°55'59.1"E	84.8	
81	Training Centre	JP3098	26°42'22.5"N	85°55'56.4"E	88.9	
82	Tree (Peepal)	JP3099	26°42'27.7"N	85°56'3.9"E	82.8	
83	Tree	JP3100	26°42'25.0"N	85°56'19.2"E	98.6	
84	Mobile Tower	JP3102	26°42'9.8"N	85°56'8.1"E	95.7	
85	House	JP3103	26°42'39.5"N	85°55'52.4"E	85.2	
86	Mobile Tower	JP3104	26°43'3.5"N	85°55'50.9"E	95.5	
87	House	JP3105	26°42'30.8"N	85°55'51.2"E	78.9	
88	House	JP3106	26°42'31.2"N	85°55'52.3"E	79.3	
89	House	JP3107	26°42'31.2"N	85°55'53.0"E	78.4	
90	House	JP3108	26°42'31.2"N	85°55'53.9"E	79.4	
91	House	JP3109	26°42'32.0"N	85°55'53.9"E	79.7	
92	House	JP3110	26°42'34.0"N	85°55'52.9"E	81.9	
93	House	JP3111	26°42'35"N	85°55'51.2"E	82.8	
94	House	JP3112	26°42'32.2"N	85°55'56.5"E	80.8	
95	School	JP3113	26°42'26.2"N	85°56'1.1"E	78.6	
96	Chimney	JP3114	26°41'29.3"N	85°54'2.5"E	96.6	
97	Chimney	JP3115	26°41'14.5"N	85°54'14.4"E	100.5	
98	Chimney	JP3116	26°41'25.1"N	85°53'48.4"E	98.1	
99	Chimney	JP3117	26°41'44.8"N	85°53'26.8"E	98.2	
100	Chimney	JP3118	26°41'39.9"N	85°52'51.1"E	96.1	
101	Chimney	JP3119	26°42'31.2"N	85°52'26.6"E	93.5	
102	Mobile Tower	JP3120	26°43'26.3"N	85°55'2.2"E	109.5	
103	Mobile Tower	JP3121	26°43'13.9"N	85°55'2.5"E	114.9	
104	FM Tower	JP3122	26°43'29.1"N	85°55'5.0"E	114.4	
105	Mobile Tower	JP3123	26°43'54.3"N	85°55'5.6"E	103.0	
106	Tower	JP3124	26°44'3.7"N	85°55'7"E	125.5	
107	Nepal Telecom Tower 1	JP3125	26°43'34.9"N	85°55'16.4"E	166.6	Highest Obstacle
108	Nepal Telecom Tower 2	JP3126	26°43'34.1"N	85°55'16.7"E	158.5	
109	Mobile Tower	JP3127	26°43'18.8"N	85°55'35.1"E	96.7	
110	FM Tower	JP3128	26°43'19.5"N	85°55'40.8"E	121.5	
111	Mobile Tower	JP3129	26°43'47"N	85°55'40.8"E	103.3	
112	Gate (Ramananda Chowk)	JP3130	26°44'9.4"N	85°55'7.9"E	96.9	
113	FM Tower	JP3131	26°43'57.9"N	85°55'28.5"E	117.3	
114	Water Tank	JP3132	26°43'57.9"N	85°55'32.3"E	105.4	
115	FM Tower	JP3133	26°43'52.8"N	85°55'51.6"E	110.4	
116	Mobile Tower	JP3134	26°44'7.1"N	85°55'26.2"E	99.8	

117	FM Tower	JP3135	26°43'57.8"N	85°55'48.2"E	117.2	
118	FM Tower	JP3136	26°43'56.9"N	85°55'57.6"E	107.8	
119	Mobile Tower	JP3137	26°43'56.7"N	85°56'0.4"E	111.8	
120	FM Tower	JP3138	26°43'59.2"N	85°55'53.2"E	117.7	
121	Mobile Tower	JP3139	26°44'2.4"N	85°55'59.8"E	107.3	
122	Mobile Tower	JP3140	26°44'3.9"N	85°55'50.6"E	109.1	
123	Mobile Tower	JP3141	26°44'11.1"N	85°55'1.7"E	99.0	
124	Mobile Tower	JP3142	26°44'12.3"N	85°56'5.6"E	118.3	
125	Water Tank	JP3143	26°44'13.7"N	85°55'13.9"E	102.4	
126	House	JP3144	26°44'23.4"N	85°55'22.6"E	101.2	
127	Mobile Tower	JP3145	26°44'17.1"N	85°55'12.6"E	99.5	
128	Mobile Tower	JP3146	26°44'35.5"N	85°55'25.9"E	113.3	
129	Mobile Tower	JP3147	26°44'37.4"N	85°55'26.3"E	106.5	
130	Mobile Tower	JP3148	26°44'32.4"N	85°55'21.7"E	102.6	
131	FM Tower	JP3149	26°44'39.8"N	85°55'13.9"E	117.3	
132	Chimney	JP3150	26°45'19.9"N	85°53'25.0"E	110.4	
133	Chimney	JP3151	26°44'49.7"N	85°53'6.5"E	106.0	
134	Chimney	JP3152	26°44'28.3"N	85°53'52.8"E	110.6	
135	Chimney	JP3153	26°43'19.6"N	85°53'54.7"E	99.1	
136	House	JP3154	26°42'18.8"N	85°56'2.3"E	91.5	
137	Tree	JP3155	26°42'26.7"N	85°55'24.5"E	93.8	
138	Tree (Bamboo)	JP3156 ⁴	26°42'27.5"N	85°54'48"E	84.6	
139	House	JP3159	26°42'34.2"N	85°55'48.5"E	80.2	
140	House	JP3160	26°42'35.4"N	85°55'53.3"E	83.4	
141	Sita Palace Hotel	JP3161	26°44'10.7"N	85°55'05.7"E	96.8	
142	School	JP3162	26°44'10.4"N	85°55'18.3"E	97.6	
143	Hotel SitaSharan	JP3163	26°43'15.4"N	85°54'42.7"E	93.1	

VNJP AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1.	Associated MET Office	Met Office, Janakpur 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	Janakpur TWR
10.	Additional information (limitation of service, etc.)	--

VNJP 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	1306 x 30	14/F/C/Y/T Asphalt Concrete	26 42 31.92N* 085 54 55.08E	71.1m (233.2 ft.)
27	272	1306 x 30	14/F/C/Y/T Asphalt Concrete	26 42 31.47N* 085 55 42.34E	70.9 m (232.6 ft.)
Slope of RWY-SWY	SWY Dimensions M	CWY Dimensions M	Strip Dimensions M	OFZ	Remarks
7	8	9	10	11	12
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VNJP AD 2.13 DECLARED DISTANCES

RWY Designator	TORA m	TODA m	ASDA m	LDA m	Remarks
1	2	3	4	5	6
09	1306	1306	1306	1306	
27	1306	1306	1306	1306	

VNJP 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
09	NIL	Green	PAPI 3.0°	NIL	NIL	1306m, 60m, White, LIM	NIL	NIL	
27	NIL	Green	PAPI 3.0°	NIL	NIL	1306m, 60m, White, LIM	NIL	NIL	

VNJP AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1.	ABN Location, characteristics and hours of operation	ABN: At above Aerodrome Control Tower, Green flashes alternating with white flashes, 28 flashes per minute normally after sunset.
2.	LDI Location and LGT Anemometer Location and LGT	LDI: Anemometer: TWR BLDG, not lighted
3.	TWY edge and Centre line lighting	Edge: All TWY and Centre Line: NIL
4.	Secondary power supply / switch over time	Stand-by Diesel Generator to all lighting and Uninterrupted Power Supply to Airfield Ground Lighting (AGL) System at AD with 30 minutes back up.
5.	Runway Threshold Identification Light (RTIL) Location and Characteristics	Location : RWY Threshold 09/27, Flashing white light with flash frequency 120 per minute.

VNJP AD 2.16 HELICOPTER LANDING AREA

Runway, Taxiway and Apron

VNJP AD 2.17 ATS AIRSPACE

1. Designation and lateral limits	Janakpur CTR: An area bounded by 26°38'14"N; 085°45'27"E then along an arc of a circle of 10 NM radius centered at Janakpur ARP to 26°48'28"N; 085°46'23"E to 26°54'30"N; 085°43'25"E then along Kathmandu TMA boundary to 26°59'26"N; 085°53'14"E to 26°52'37"N; 085°56'34"E then along an arc of a circle of 10 NM radius centered at Janakpur ARP to 26°38'28"N; 086°05'37"E then along Kathmandu FIR boundary to 26°38'14"N; 085°45'27"E. Janakpur ATZ: An area of a circle of 5 NM radius centered at Janakpur ARP and to the South up to VNSM FIR.	
2. Vertical Limits	CTR	ATZ
	<u>12000' AMSL</u> GND	<u>2000' AGL</u> GND
3. Airspace classification	C	
4. ATS units call sign/languages	Janakpur TWR/English	
5. Transition Altitude	13500' AMSL	
6. Remarks	-	

VNJP AD 2.18 ATS COMMUNICATION FACILITIES

Service Designation	Call Sign	Frequency	Hours of Operation	Remarks
1	2	3	4	5
TWR	Janakpur Tower	122.5 MHZ	As ATS	

VNJP 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
NIL						

VNJP AD 2.20 LOCAL TRAFFIC REGULATIONS

To be developed

VNJP AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VNJP AD 2.22 FLIGHT PROCEDURES

To be developed

VNJP AD 2.23 ADDITIONAL INFORMATION

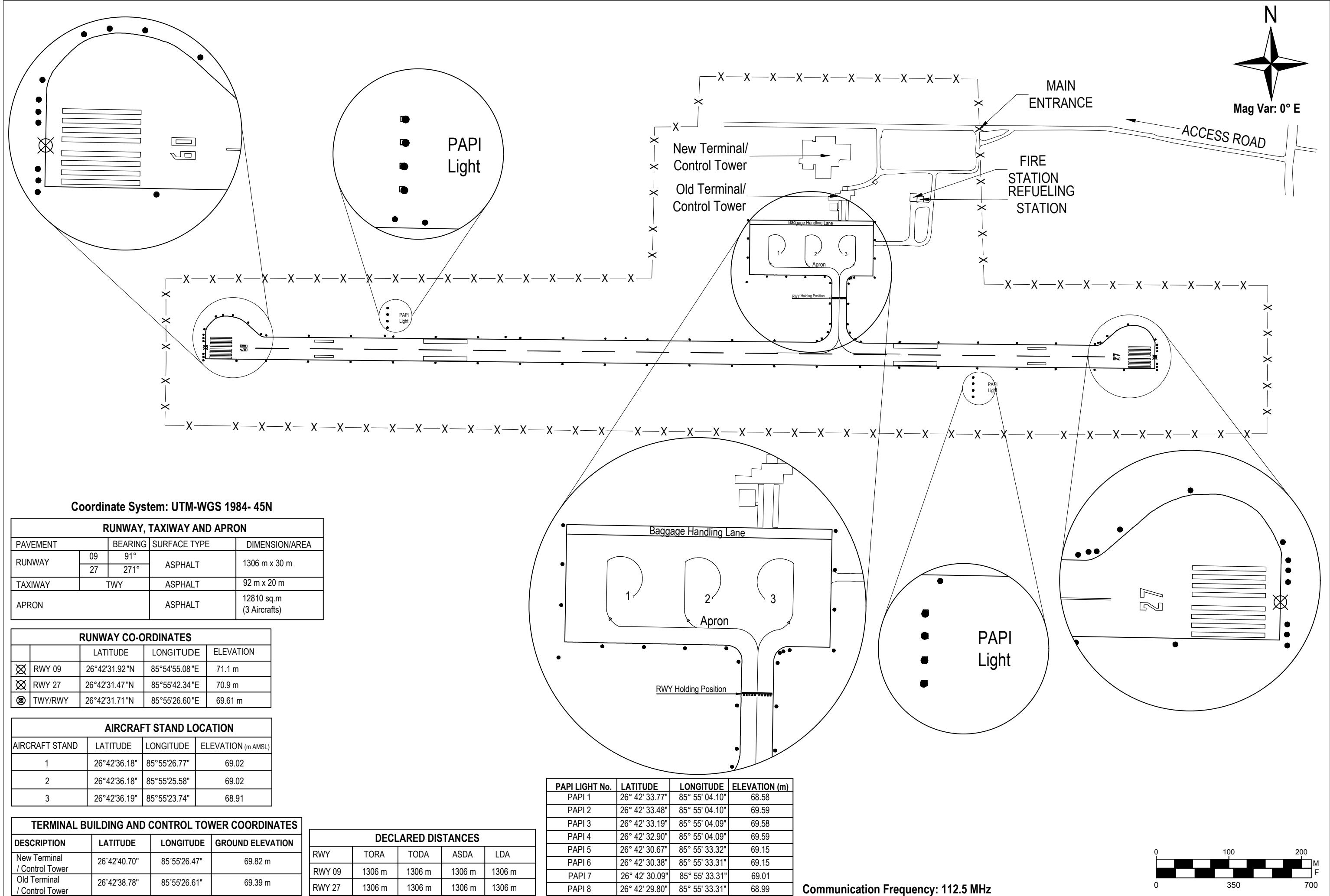
1. Bird Activity

- 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.

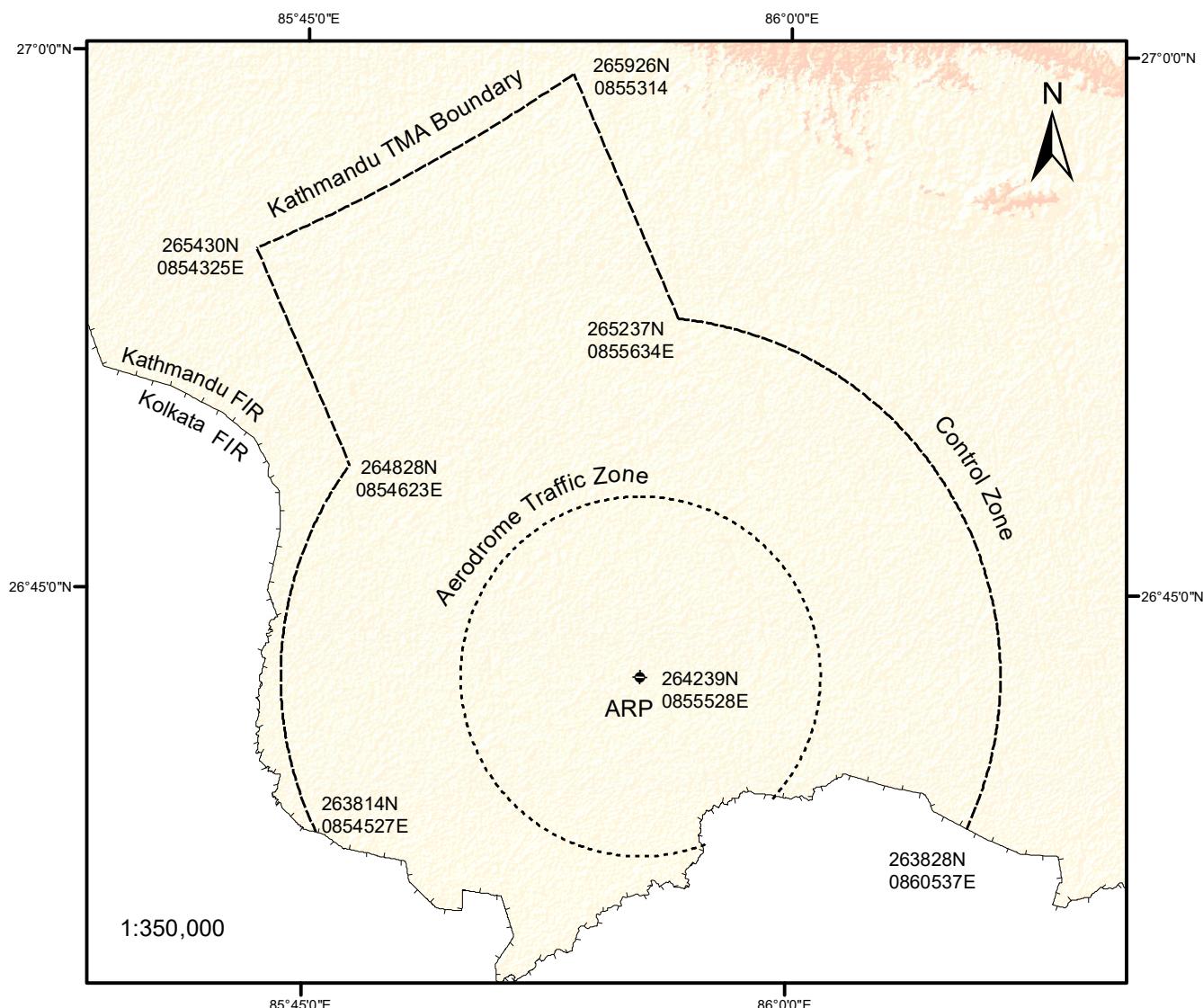
VNJP AD 2.24 CHARTS & PROCEDURES RELATED TO JANKPUR AIRPORT

Aerodrome Chart	VNJP AD 2-13
CTR and ATZ	VNJP AD 2-14
IFR Holding Points	VNJP AD 2-15
RNAV GNSS approach procedure at	
Janakpur Airport	VNJP AD 2-16 - VNJP AD 2-24

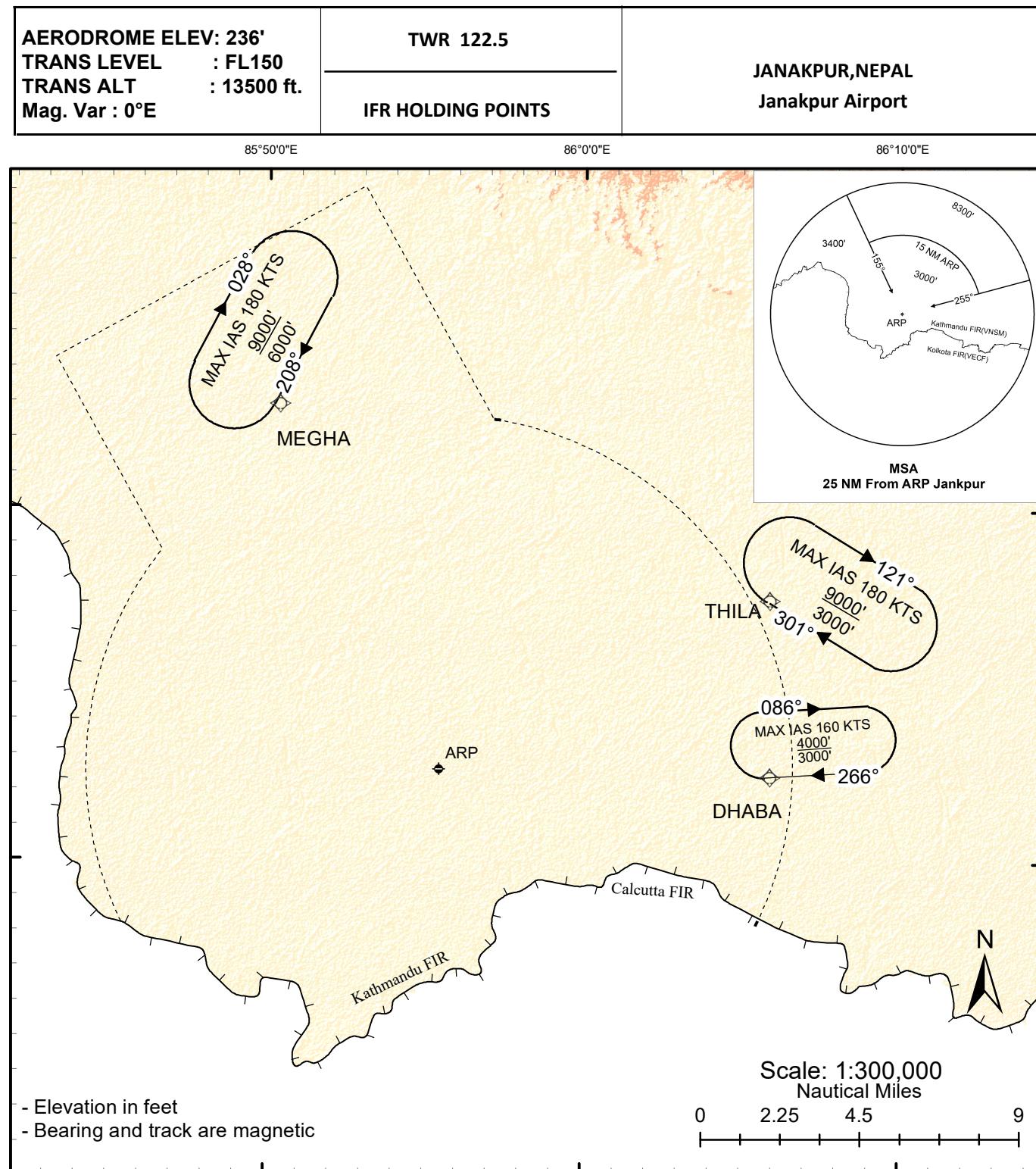
AERODROME CHART OF JANAKPUR AIRPORT



Control Zone (CTR) and Aerodrome Traffic Zone (ATZ) Janakpur Airport



AIRSPACE	IDENT	Lateral Limit	Vertical Limit
Aerodrome Traffic Zone	ATZ	An area of a circle of 5 NM radius centered at Janakpur ARP and to the South up to VNSM FIR.	<u>2000 ft AGL</u> GND
Control Zone	CTR	An area bounded by 263814N 0854527E then along an arc of a circle of 10NM radius centered at Janakpur ARP to 264828N 0854623E to 265430N 0854325E then along Kathmandu TMA boundary to 265926N 0855314E to 265237N 0855634E then along an arc of a circle of 10NM radius centered at Janakpur ARP to 263828N 0860537E then along Kathmandu FIR boundary to 263814N 0854527E.	<u>12000ft AMSL</u> GND



Holding	Location	Max.Altitude Min.Altitude	Max.IAS	Pattern	Inbound Track	Outbound Leg
MEGHA	Over MEGHA	9000 ft AMSL	180 KTS	Right	207.6°	1 Minute
		6000 ft AMSL				
DHABA	Over DHABA	4000 ft AMSL	160 KTS	Right	266.0°	1 Minute
		3000 ft AMSL				
THILA	Over THILA	9000 ft AMSL	180 KTS	Right	301.2°	1 Minute
		3000 ft AMSL				

Note: 1. MEGHA Holding is laterally separated with DHABA and THILA holdings.

2. DHABA and THILA holdings are Not Laterally separated.

3. A/C holding over DHABA at 4000 ft shall remain within Kathmandu FIR (VNSM)

RNAV GNSS approach procedures at JANAKPUR AIRPORT (VNJP)

RNAV GNSS approach procedures at Janakpur Airport (VNJP) has been newly established.

1. INTRODUCTION

- 1.1 The following RNP1 SIDs/STARs and RNP APCH and associated Missed Approach Procedures are designed for VNJP 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 VNJP is designed to enhance the safety and efficiency of the aircraft operations to materialize the National PBN Implementation Plan of Nepal.
- 1.3 Two RNAV (GNSS) approach procedure with LNAV Specification only along with two RNP1 STARs and Three RNP1 SIDs have been designed utilizes 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 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 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 two RNP1 STARs, two RNP1 SIDs and one RNP APCH (LNAV only) procedures to Janakpur Runway 09 and 27 are named in accordance with the ICAO naming convention as tabulated below.

RWY	SIDs	STARs	APPROACH
09	DAMAR 1B THILA 1A	DAMAR 1 C	RNP RWY 09(LNAV Only)
27	DAMAR 1A	DAMAR 1 D	RNP RWY 27(LNAV Only)

4. 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.

5. List of Significant points

Waypoint Identifier	Coordinates	
DAMAR	27°15'21.1"N	85°39'46.4"E
LALBA	26°56'50.0"N	85°48'23.0"E
MEGHA	26°52'56.9"N	85°50'11.0"E
THILA	26°47'26.2"N	86°05'43.8"E
DHABA	26°42'25.4"N	86°05'45.3"E
JP965	26°42'27.8"N	86°01'50.8"E
JP964	26°42'29.4"N	85°59'16.7"E
JP963	26°47'37.0"N	85°47'04.6"E
JP962	26°42'36.1"N	85°47'06.1"E
JP961	26°42'33.9"N	85°51'20.7"E
RW09	26°42'31.9"N	85°54'55.1"E
RW27	26°42'31.5"N	85°55'42.3"E

6. Coding Table: DAMAR 1C 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	DAMAR	-	-	-	-	-	+13500	-	-	RNP-1
002	TF	LALBA	-	157°	-	20.0	-	+7500	-	-	RNP-1
003	TF	MEGHA	-	157°	-	4.2	-	+6000	-	-	RNP-1

7. Coding Table DAMAR 1DArrival

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	DAMAR	-	-	-	-	-	+13500	-	-	RNP-1
002	TF	LALBA	-	157°	-	20.0	L	+7500	-180	-	RNP-1
003	TF	THILA	-	121°	-	18.1	R	+3000	-180	-	RNP-1
004	TF	DHABA	-	180°	-	5.0	-	+3000	-	-	RNP-1

8. Coding Table : RNP RWY 09

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	MEGHA (IAF)	-	-	-	-	-	+6000	-	-	RNP APCH
002	TF	JP963 (SDF)	-	208°	-	6.0	L	@3800	-	-	RNP APCH
003	TF	JP962 (IF)	-	180°	-	5.0	L	@2200	-	-	RNP APCH
004	TF	JP961 (FAF)	-	091°	-	3.8	-	@1300	-	-	RNP APCH
005	TF	RW09 (MAPt)	Y	091°	-	3.2	-	-	-	3.00/50	RNP APCH
006	TF	DHABA (MAHF)	-	091°	-	9.7	-	+3000	-	-	RNP APCH
007	HM	DHABA	-	266°	-	-	R	+3000	-160	-	RNP APCH

9. Coding Table : RNP RWY27

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	DHABA (IAF)	-	-	-	-	-	+3000	-	-	RNP APCH
002	TF	JP965 (IF)	-	271°	-	3.5	-	@1800	-	-	RNP APCH
003	TF	JP964 (FAF)	-	271°	-	2.3	-	@1300	-	-	RNP APCH
004	TF	RW27 (MAPt)	Y	271°	-	3.2	-	-	-	-3.00/50	RNP APCH
005	FA	RW27	-	271°	-	-	-	@1000	-	-	RNP APCH
006	DF	DHABA (MAHF)	-	-	-	-	-	+3000	-	-	RNP APCH
007	HM	DHABA (MAHF)	Y	266	-	-	R	+3000	-160	-	RNP APCH

10. Coding Table : SID DAMAR 1A RWY 27

<i>Serial No.</i>	<i>Path Descriptor</i>	<i>Waypoint Identifier</i>	<i>Flyover</i>	<i>Course/Track (*M/*T)</i>	<i>Magnetic Variation</i>	<i>Distance (NM)</i>	<i>Turn Direction</i>	<i>Altitude (ft)</i>	<i>Speed (kts)</i>	<i>VPA/ TCH</i>	<i>Navigation Specification</i>
001	CA	-	-	271°	-	-	R	@2000	-	-	RNP-1
002	DF	LALBA	-	-	-	-	L	+7500	-	-	RNP-1
003	TF	DAMAR	-	337°	-	20.0	-	+12500	-	-	RNP-1

11. Coding Table : SID DAMAR 1B RWY 09

<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	-	-	091°	-	-	L	@2000	-	-	RNP-1
002	DF	LALBA	-	-	-	-	R	+7500	-	-	RNP-1
003	TF	DAMAR	-	337°	-	20.0	-	+12500	-	-	RNP-1

12. Coding Table - SID THILA 1A RWY 09

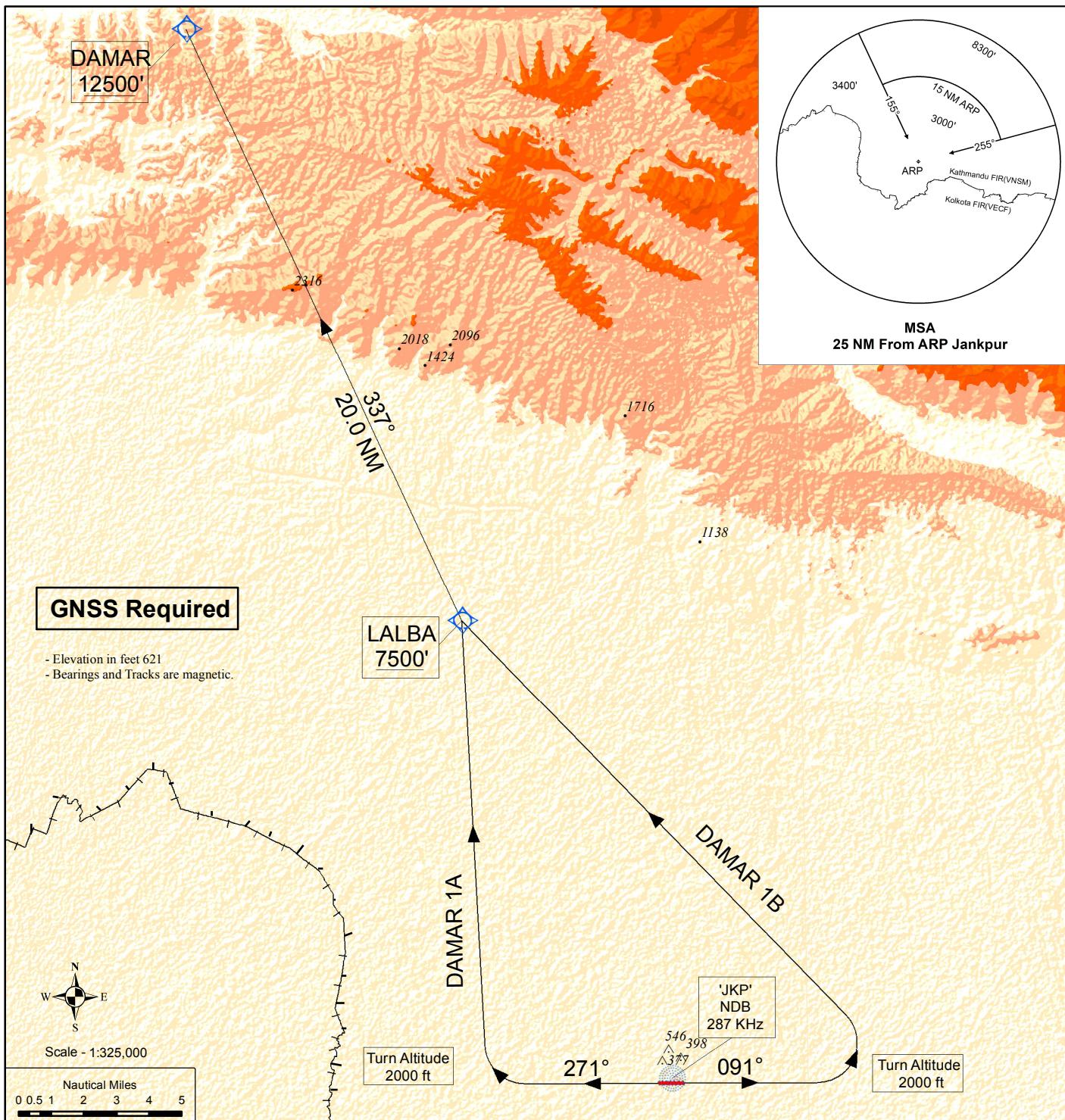
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001	CA	-	-	091°	-	-	L	@1000	-	-	RNP-1
002	DF	THILA	-	-	-	-	-	+3000	-	-	RNP-1

STANDARD
DEPARTURE
CHART
INSTRUMENT(SID)
- ICAO

AERODROME ELEV 233'
TRANS LEVEL: FL150
TRANS ALT: 13500 ft.
Mag Var. 0°E

TWR 122.5

JANAKPUR, NEPAL
Janakpuri Airport
RNP 1 SID
DAMAR 1A, DAMAR 1B



DAMAR 1A RWY 27 (PDG 7.4%)

Climb on runway axis. At 2000 ft AMSL, turn right direct to LALBA at or above 7500 ft. Then track 337.4° to DAMAR at or above 12500 ft.

DAMAR 1B RWY 09 (PDG 4.8%)

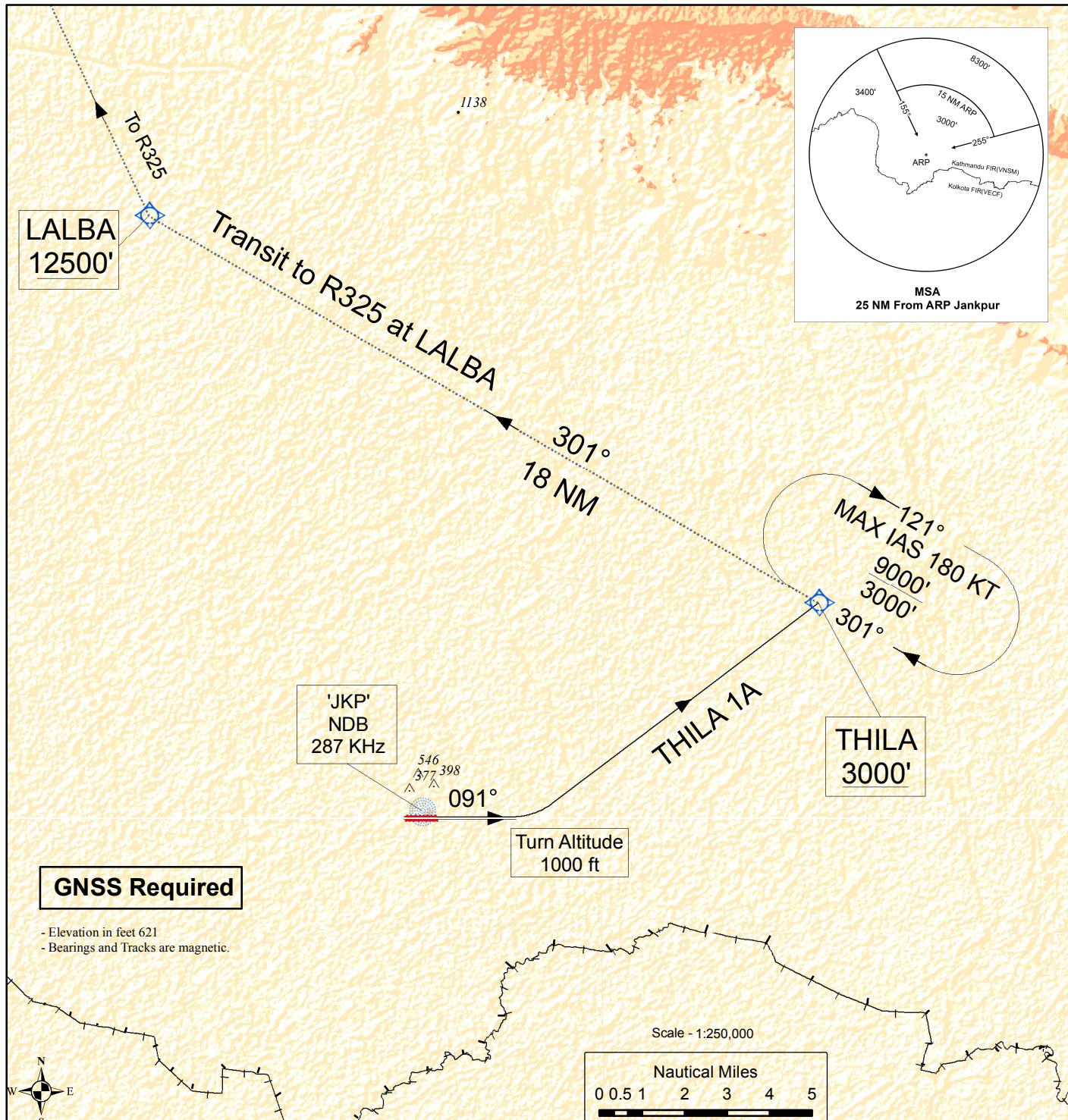
Climb on runway axis. At 2000 ft AMSL, turn left direct to LALBA at or above 7500 ft. Then track 337.4° to DAMAR at or above 12500 ft.

STANDARD
DEPARTURE CHART
INSTRUMENT(SID)-
ICAO

AERODROME ELEV 233'
TRANS LEVEL: FL150
TRANS ALT: 13500 ft.
Mag Var. 0°E

TWR 122.5

JANAKPUR, NEPAL
Janakpuri Airport
RNP 1 SID
THILA 1A



THILA 1A RWY 09 (PDG 4.8%)

Climb on runway axis. At 1000 ft turn left direct to THILA at or above 3000 ft.

Transition to Routes:

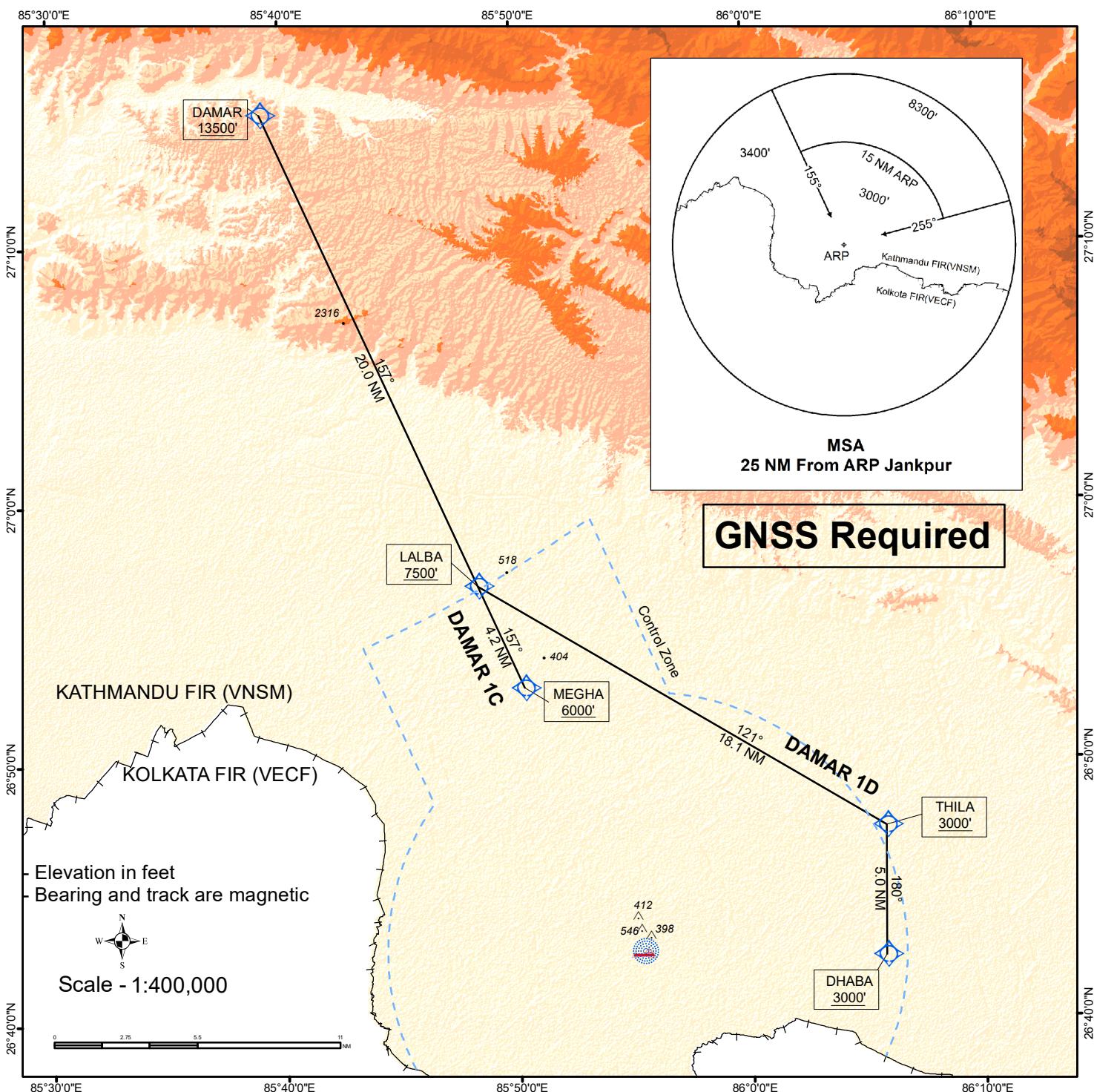
To R325	Reach 7000 ft over THILA then track 301.2° to LALBA at or above 12500 ft or as instructed by ATC.
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**STANDARD
TERMINAL
ARRIVAL
CHART - ICAO**

**AERODROME ELEV 233'
TRANS LEVEL: FL150
TRANS ALT: 13500 ft.
Mag Var. 0°E**

TWR 122.5

**JANAKPUR, NEPAL
Janakpur Airport
RNP 1 STAR
DAMAR 1C, DAMAR 1D**



RNP 1 STAR	Routing
DAMAR 1C	From DAMAR descend to 7500 ft or above at LALBA. Then to MEGHA at or above 6000 ft.
DAMAR 1D	From DAMAR descend to 7500 ft or above at LALBA. Then to THILA and then to DHABA at or above 3000 ft.

**INSTRUMENT
APPROACH
CHART - ICAO**

**AERODROME ELEV 233'
TRANS LEVEL: FL150
TRANS ALT: 13500 ft.
Mag Var. 0°E**

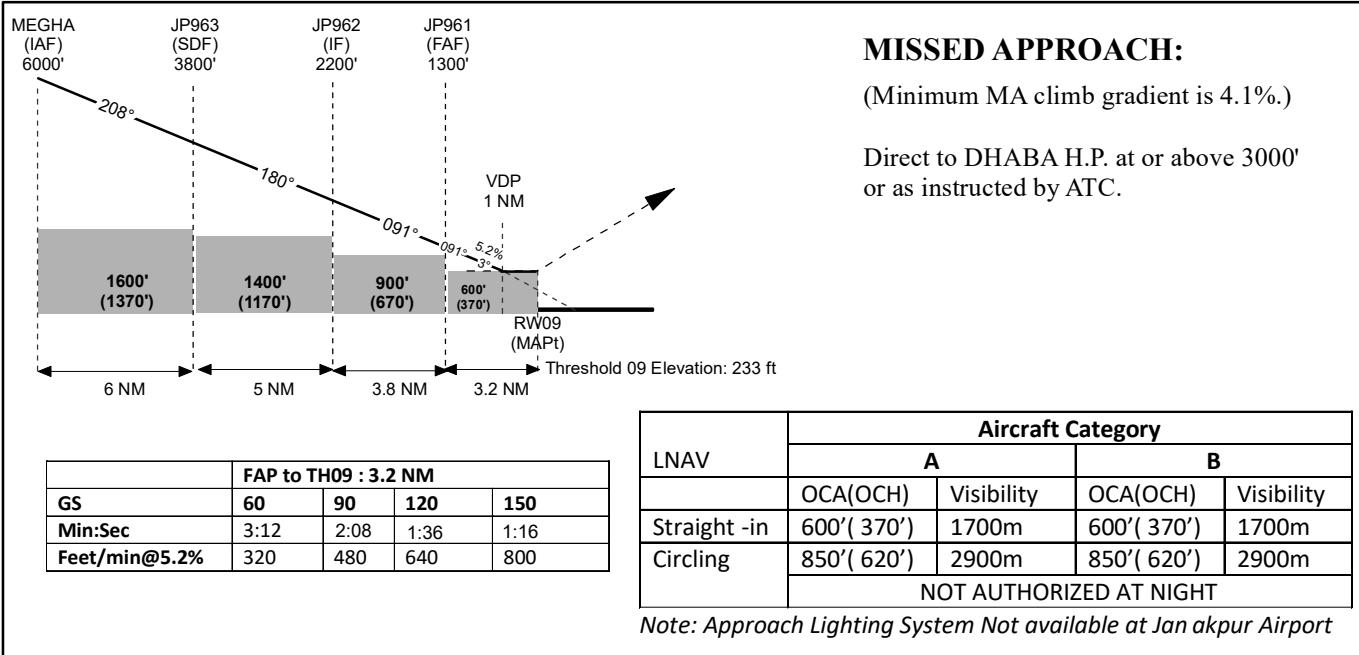
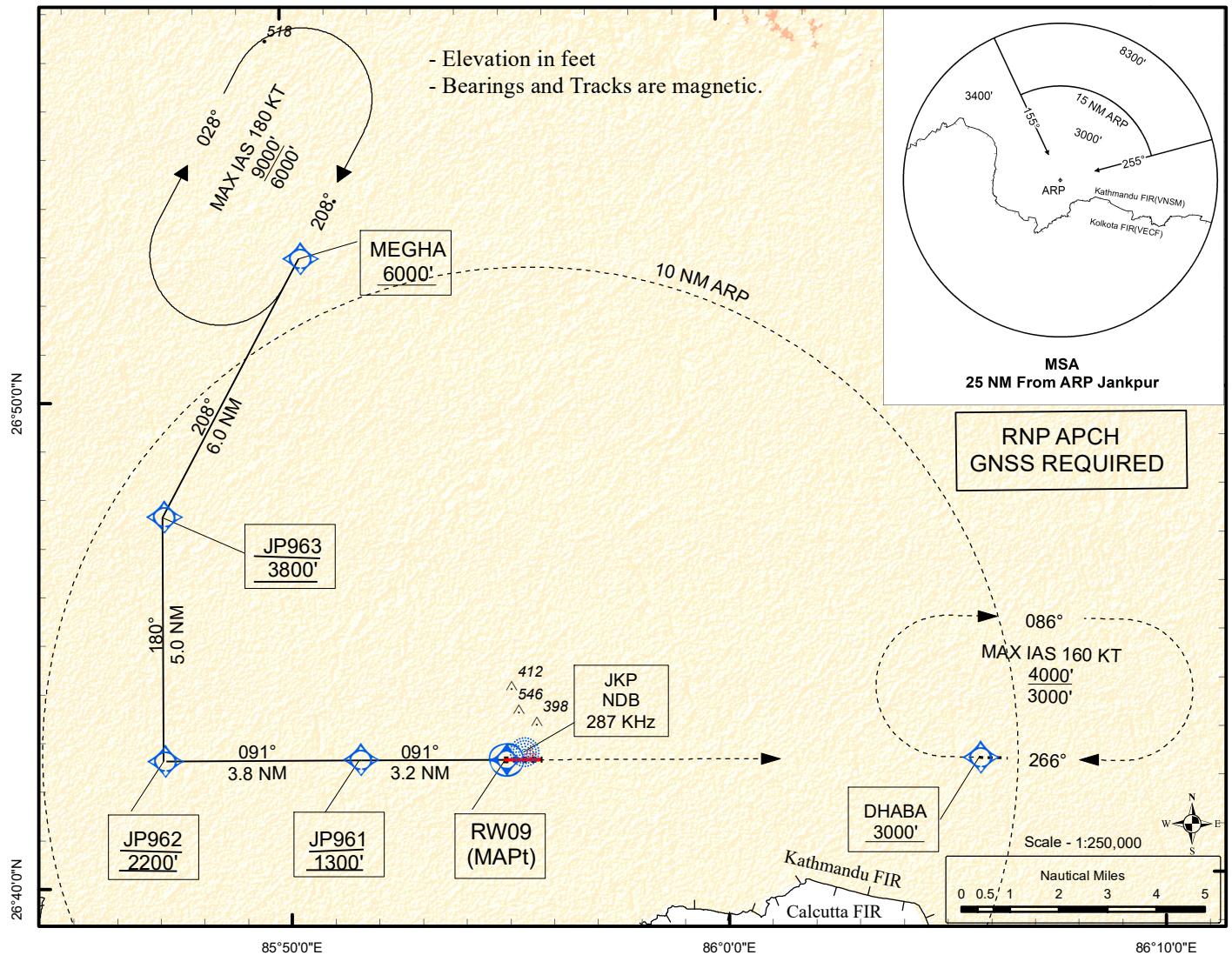
TWR 122.5

**JANAKPUR, NEPAL
Janakpur Airport
RNP RWY 09 (LNAV Only)**

85°50'0"E

86°0'0"E

86°10'0"E

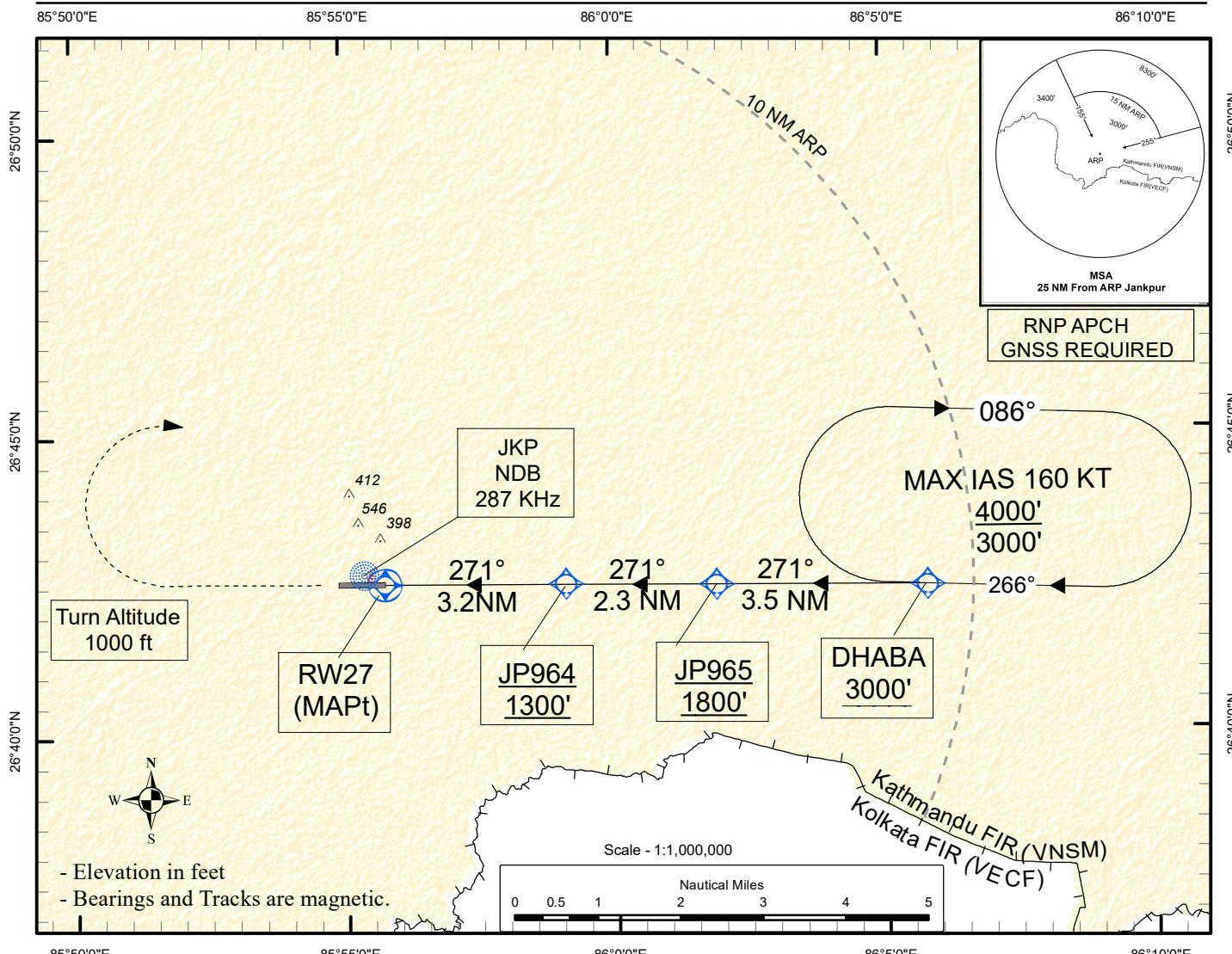


**INSTRUMENT
APPROACH
CHART - ICAO**

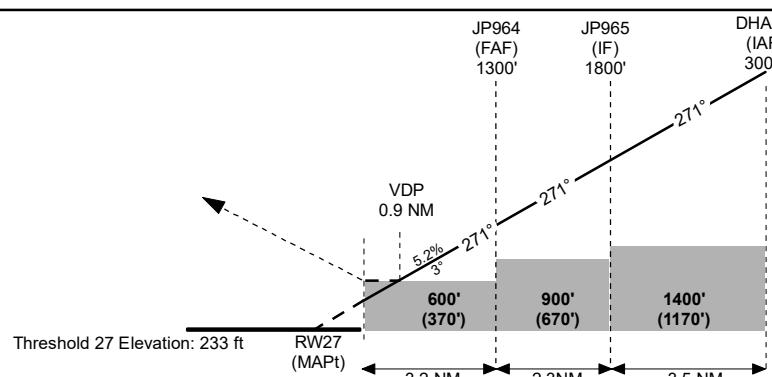
**AERODROME ELEV 233'
TRANS LEVEL: FL150
TRANS ALT: 13500 ft.
Mag Var. 0°E**

TWR 122.5

**JANAKPUR, NEPAL
Janakpur Airport
RNP RWY 27 (LNAV Only)**


MISSED APPROACH:

(Minimum MA climb gradient is 2.7%.)
 Climb on runway axis. At 1000 ft, turn right direct to DHABA H.P. at or above 3000' or as instructed by ATC.



LNAV	Aircraft Category			
	A		B	
	OCA(OCH)	Visibility	OCA(OCH)	Visibility
Straight -in	600'(370')	1700m	600'(370')	1700m
Circling	850'(620')	2900m	850'(620')	2900m
NOT AUTHORIZED AT NIGHT				

	FAF TO TH 27 : 3.2 NM			
GS	60	90	120	150
Min:Sec	3:12	2:08	1:36	1:16
Feet/min@5.2%	320	480	640	800

Note: Approach Lighting System Not available at Janakpur Airport