AD 2. AERODROME

VNNG AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VNNG – NEPALGUNJ/Domestic

VNNG AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1.	ARP Coordinates and site at AD	280606 N 0813959 E*
2.	Direction and Distance from (city)	4 Km, North from Nepalgunj city
3.	Elevation/Reference Temperature	158 m. (518 ft.) / 42°C (June)
4.	MAG VAR/Annual Change	0 ° E
5.	AD Administration, address Telephone, Telefax, Telex AFS	Civil Aviation Authority of Nepal Nepalgunj Airport , Banke Te1- 977-081-565158 (Director) 565205 (Tower), 565210 (Admin) Fax - 977-081-565204 AFS - VNNGYDYX
6.	Types of traffic permitted (IFR/VFR)	IFR / VFR
7.	Remarks	-

VNNG 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	AS ATS
5.	ATS Reporting Office (ARO)	AS ATS
6.	MET Briefing	Hourly Metar provided during Operation Hours
7.	ATS	*Jan, Feb, Nov, Dec0100-1215 UTC Mar., ,Apr., Sept., Oct. 0030-1245 UTC May, June, July, Aug 0015-1300 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

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 and Highest elevation of TDZ of Precision APP RWY
1	2	3	4	5	6
08	081°	1524 x 30	Bitumen	280610 N * 0813935 E	157 m AMSL
26	261°	1524 x30	Bitumen	280617 N * 0814027 E	158 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)	Neapalgunj 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	*Jan, Feb, Nov, Dec 0100-1215 UTC* *Mar., ,Apr., Sept., Oct. 0030-1245 UTC* *May, June, July, Aug 0015-1300 UTC*	

* *WGS 84 Coordinates*
** *For operations other than above, Prior Co-ordination is required*

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	
NDB	NPJ	330 KHZ	H24	280559.4 N* 0814003.1 E		

VNNG AD 2.20 LOCAL TRAFFIC REGULATIONS

To be Developed

VNNG AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VNNG AD 2.24 CHARTS RELATED TO NEPALGUNJ AIRPORT

Aerodrome Chart			VNNG AD 2-10
Instrument Approach Chart – RWY 08/26	VNNG AD 2-11	-	VNNG AD 2-13
Standard Departure Chart – RWY 08/26	VNNG AD 2-14	-	VNNG AD 2-15
Nepalgunj TMA, CTR and ATZ			VNNG AD 2-16
Standard Terminal Arrival Route Chart			VNNG AD 2-17

AERODROME CHART OF NEPALGUNJ AIRPORT

TWR 118.3 MHZ

PROFILE
ELEVATION – 157.992m RUNWAY DESIGNATYION – 08/26 RUNWAY DIMENSION – 1524m X 30m APRON– 6 AIRCRAFTS

AIRCRAFT STAND ALLOCATION		
AIRCRAFT STAND	COORIDNATES(LAT,LONG)	ELEVATION(m.AMSL)
1	28°6'6.00", 81°40'0.77"	157.210
2	28°6'6.01", 81°40'2.19"	157.418
3	28°6'6.19", 81°40'3.48"	157.384
4	28°6'6.37", 81°40'4.77"	156.938
5	28°6'7.99", 81°40'5.10"	157.043
6	28°6'7.77", 81°40'3.50"	157.338

RUNWAY CO–ORDINATES		
RWY 08	28°6'9.18", 81°39'33.94"	156.935
RWY 26	28°6'16.90", 81°40'28.62"	157.876

RUNWAY, TAXIWAY & APRON				
PAVEMENT		BEARING	SIZE	SURFACE TYPE
RUNWAY	08	81°	(L x B) 1524 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.	CONCRETE

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

STANDARD 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 INSTRUMENT DEPARTURE CHART - 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 INSTRUMENT DEPARTURE CHART - 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.

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

STANDARD TERMINAL ARRIVAL ROUTE 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, TULSI 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.

TULSI ARRIVAL

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

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