

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

**LOEI / Loei (VTUL)
RNAV RWY19**

BARCE1B BOVGO1B DUBOL1B
NOGAD1B RIBDO1B SWENI1B

TABULAR DESCRIPTION

RNAV RWY19											
Serial Number	Path Descriptor	Waypoint Identifier	Flyover	Course ° M (° T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KT)	VPA/TCH	Navigation Specification
BARCE1B											
010	-	DER RWY19	-	-	+0.82	-	-	-	-	-	RNP 1
020	CF	LUMRO	-	198° (196.9°)	+0.82	6.0	-	+3000	-230	-	RNP 1
030	TF	RIBDO	-	272° (271.0°)	+0.82	11.5	-	@7000	-	-	RNP 1
040	TF	BARCE	-	280° (278.8°)	+0.82	16.4	-	-	-	-	RNP 1
BOVGO1B											
010	-	DER RWY19	-	-	+0.82	-	-	-	-	-	RNP 1
020	CF	LUMRO	-	198° (196.9°)	+0.82	6.0	-	+3000	-230	-	RNP 1
030	TF	BOVGO	-	148° (147.3°)	+0.82	14.6	-	@7000	-	-	RNP 1
DUBOL1B											
010	-	DER RWY19	-	-	+0.82	-	-	-	-	-	RNP 1
020	CF	LUMRO	-	198° (196.9°)	+0.82	6.0	-	+3000	-230	-	RNP 1
030	TF	DUBOL	-	223° (222.3°)	+0.82	13.4	-	@7000	-	-	RNP 1
NOGAD1B											
010	-	DER RWY19	-	-	+0.82	-	-	-	-	-	RNP 1
020	CF	LUMRO	-	198° (196.9°)	+0.82	6.0	-	+3000	-230	-	RNP 1
030	TF	ATNG	-	108° (106.8°)	+0.82	7.0	-	-5000	-	-	RNP 1
040	TF	UPDUN	-	108° (106.9°)	+0.82	7.5	-	-7000	-250	-	RNP 1
050	TF	MENUS	-	018° (016.9°)	+0.82	5.5	-	+9000	-270	-	RNP 1
060	TF	SWENI	-	018° (016.9°)	+0.82	5.0	-	+9000	-	-	RNP 1
070	TF	NOGAD	-	007° (005.6°)	+0.82	12.7	-	+11000	-	-	RNP 1
RIBDO1B											
010	-	DER RWY19	-	-	+0.82	-	-	-	-	-	RNP 1
020	CF	LUMRO	-	198° (196.9°)	+0.82	6.0	-	+3000	-230	-	RNP 1
030	TF	RIBDO	-	272° (271.0°)	+0.82	11.5	-	@7000	-	-	RNP 1
SWENI1B											
010	-	DER RWY19	-	-	+0.82	-	-	-	-	-	RNP 1
020	CF	LUMRO	-	198° (196.9°)	+0.82	6.0	-	+3000	-230	-	RNP 1
030	TF	ATNG	-	108° (106.8°)	+0.82	7.0	-	-5000	-	-	RNP 1
040	TF	UPDUN	-	108° (106.9°)	+0.82	7.5	-	-7000	-250	-	RNP 1
050	TF	MENUS	-	018° (016.9°)	+0.82	5.5	-	+9000	-270	-	RNP 1
060	TF	SWENI	-	018° (016.9°)	+0.82	5.0	-	+9000	-	-	RNP 1

WAYPOINT LIST

RNAV RWY19					
Waypoint Identifier	Coordinates		Waypoint Identifier	Coordinates	
DER RWY19	17° 25' 48.12" N	101° 43' 09.10" E	MENUS	17° 21' 07.25" N	101° 57' 31.40" E
ATNG	17° 18' 00.22" N	101° 48' 19.99" E	NOGAD	17° 38' 33.69" N	102° 00' 20.87" E
BARCE	17° 22' 44.72" N	101° 12' 18.80" E	RIBDO	17° 20' 13.68" N	101° 29' 17.58" E
BOVGO	17° 07' 39.61" N	101° 49' 35.15" E	SWENI	17° 25' 55.41" N	101° 59' 02.73" E
DUBOL	17° 10' 03.52" N	101° 31' 53.94" E	UPDUN	17° 15' 48.74" N	101° 55' 50.55" E
LUMRO	17° 20' 02.18" N	101° 41' 20.01" E			

CHANGE : NEW CHART.