

STANDARD ARRIVAL
CHART - INSTRUMENT
→ (STAR) - ICAO

DOHA/Hamad Intl.(OTHH)
RNP RWY 16L/R
TOSNA 1P / TOVOX 1P

TABULAR DESCRIPTION

RNP STAR TOSNA 1P											
Serial Num	Path Descriptor	Waypoint Identifier	Fly-over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA(°)/TCH(ft)	Navigation Specification
1	IF	TOSNA	-	-	-2.6	-	-	+FL200	-	-	RNP 1
2	TF	KUVLA	-	233 (236.0)	-2.6	16.1	-	-	-	-	RNP 1
3	TF	DINEX	-	214 (216.4)	-2.6	16.5	-	-	-	-	RNP 1
4	TF	KIVAM	-	263 (265.5)	-2.6	10.5	-	-	-250	-	RNP 1
5	TF	UKOBA	-	305 (307.3)	-2.6	8.7	-	@11000	-	-	RNP 1
6	TF	MUXED	-	305 (307.2)	-2.6	9.3	-	-	-	-	RNP 1
7	TF	SIDMU	-	336 (338.3)	-2.6	8.1	-	+8000	-	-	RNP 1
8	TF	EGNUG	-	336 (338.2)	-2.6	7.7	-	-	-	-	RNP 1
9	TF	NOLMA	-	336 (338.2)	-2.6	4.9	-	-	-	-	RNP 1
10	TF	PUTAN	-	336 (338.2)	-2.6	4.9	-	-	-	-	RNP 1
11	TF	IVANI	-	336 (338.2)	-2.6	5.5	-	+2500/-3500	-220	-	RNP 1
12	TF	IMGOG	-	336 (338.2)	-2.6	5.6	-	-	-	-	RNP 1
13	FM	IMGOG	-	336 (338.2)	-2.6	-	-	-	-	-	RNP 1
Remarks		Expect 2500ft for OTHH RWY 16L and 3500ft for OTHH RWY 16R at IVANI (by ATC only)									

RNP STAR TOVOX 1P											
Serial Num	Path Descriptor	Waypoint Identifier	Fly-over	Course °M(°T)	Magnetic Variation(°)	Distance (NM)	Turn Direction	Altitude (ft)	Speed (kt)	VPA(°)/TCH(ft)	Navigation Specification
1	IF	TOVOX	-	-	-2.6	-	-	@FL180	-	-	RNP 1
2	TF	DINEX	-	268 (271.0)	-2.6	7.9	-	-	-	-	RNP 1
3	TF	KIVAM	-	263 (265.5)	-2.6	10.5	-	-	-	-	RNP 1
4	TF	UKOBA	-	305 (307.3)	-2.6	8.7	-	@11000	-	-	RNP 1
5	TF	MUXED	-	305 (307.2)	-2.6	9.3	-	-	-	-	RNP 1
6	TF	SIDMU	-	336 (338.3)	-2.6	8.1	-	+8000	-	-	RNP 1
7	TF	EGNUG	-	336 (338.2)	-2.6	7.7	-	-	-	-	RNP 1
8	TF	NOLMA	-	336 (338.2)	-2.6	4.9	-	-	-	-	RNP 1
9	TF	PUTAN	-	336 (338.2)	-2.6	4.9	-	-	-	-	RNP 1
10	TF	IVANI	-	336 (338.2)	-2.6	5.5	-	+2500/-3500	-220	-	RNP 1
11	TF	IMGOG	-	336 (338.2)	-2.6	5.6	-	-	-	-	RNP 1
12	FM	IMGOG	-	336 (338.2)	-2.6	-	-	-	-	-	RNP 1
Remarks		Expect 2500ft for OTHH RWY 16L and 3500ft for OTHH RWY 16R at IVANI (by ATC only)									

WAYPOINT LIST

RNP STAR TOSNA 1P / TOVOX 1P	
Waypoint Identifier	Coordinates
TOSNA	251612.00N 0524116.00E
KUVLA	250710.18N 0522633.99E
DINEX	245349.88N 0521548.36E
KIVAM	245259.53N 0520420.77E
UKOBA	245816.01N 0515644.46E
MUXED	250356.10N 0514832.78E
SIDMU	251131.44N 0514513.15E
EGNUG	251843.02N 0514203.54E
NOLMA	252318.89N 0514002.12E
PUTAN	252754.71N 0513800.57E
IVANI	253302.21N 0513544.87E
IMGOG	253815.65N 0513326.34E
TOVOX	245341.54N 0522428.70E