STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DIST IN NM
BEARINGS ARE MAGNETIC
ALTITUDES AND ELEV IN FEET

DOHA RADAR NORTH	121.100 / 121.625
DOHA RADAR SOUTH	120.675 / 119.150
DOHA APP WEST	119.725 / 125.125
DOHA APP EAST	124.775 / 120.600
HAMAD TWR EAST	118.525 / 118.225

DOHA/Hamad Intl. (OTHH)
RNP RWY 16L
ALVEN 2M / LUBET 1M / LUBET 1Y / TULUB 1M

WARNING
Due to interaction with other routes, level restrictions, unless cleared by ATC, must be strictly adhered to.

RNP 1

N
VAR 2.6°E-2025

2300
MSA 25 NM ARP

TRANSITION ALTITUDE
13000

LUBET
261440.67N
0510346.54E
FL180
(by ATC Only)

MISEL
260906.55N
0510850.78E

TULUB
260644.00N
0510041.00E
FL180
(by ATC Only)

PATOM
255821.41N
0511836.36E
FL160
(by ATC Only)

IMSUN
255445.54N
0513833.11E
FL170

ALVEN
255418.19N
0515315.30E
FL150
(by ATC Only)

ALNAK
255053.49N
0513401.89E

EMISA
254658.35N
0514206.68E

DEBIL
254336.08N
0513726.39E
13000

GIBIN
254006.23N
0514417.85E

PASIS
253154.63N
0514146.81E
8000
7000

GIDOS
252502.23N
0514447.73E
5000

DERTI
251934.52N
0514711.24E
4000

KIVOD
251339.57N
0513820.46E
500

MIRAV
251400.80N
0514937.14E
MAX 250 KIAS

R53 3000 SFC
R51 3000 SFC
R52 UNL SFC
R55 3000 SFC
R62 13000 SFC
R60 1000 SFC
P43 15000 SFC
P48 UNL SFC
P44 1500 SFC
P49 1500 SFC
P45 1500 SFC
P47 5000 SFC
R58 3000 SFC
D29 500 SFC
R56 5000 SFC
R61 3000 SFC

Hamad Intl.
Doha Intl.
Al-Udaid

COM FAILURE
In case of communication failure:
- Squawk 7600.
- Climb to 3000ft or last assigned and acknowledged ALT/FL, whichever is higher.
- Leave last assigned and acknowledged ALT/FL three minutes after reaching the ALT/FL or after selecting the squawk code, whichever is later.
- Continue climb to FPL FL and proceed to first en-route point according to FPL.

(1) When passing 500 but not before KIVOD, turn left direct to MIRAV.

(2) Further climb clearance by ATC.

GENERAL INFORMATION:
- Initial climb altitude 5000ft. Further climb by ATC instruction only.

SCALE 1:500000
NM -1 0 1 2 3 4 5
KM -2 0 2 4 6 8 10

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STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO

DOHA/Hamad Intl.(OTHH)
RNP RWY 16L
ALVEN 2M / LUBET 1M / LUBET 1Y / TULUB 1M

TABULAR DESCRIPTION

RNP SID ALVEN 2M

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	CF	KIVOD	Y	156 (158.2)	-2.6	1.8	-	-	-	-	RNP 1
2	CA	-	-	156 (158.2)	-2.6	-	-	+500	-	-	RNP 1
3	DF	MIRAV	-	-	-2.6	-	L	-	-250	-	RNP 1
4	TF	DERTI	-	336 (338.3)	-2.6	6.0	-	+4000	-	-	RNP 1
5	TF	GIDOS	-	336 (338.3)	-2.6	5.9	-	@5000	-	-	RNP 1
6	TF	PASIS	-	336 (338.3)	-2.6	7.4	-	-8000/+7000	-	-	RNP 1
7	TF	GIBIN	-	013 (015.6)	-2.6	8.5	-	-	-	-	RNP 1
8	TF	ALVEN	-	027 (029.7)	-2.6	16.3	-	-FL150	-	-	RNP 1
Remarks		ALVEN -FL150 by ATC only									

RNP SID LUBET 1M

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	CF	KIVOD	Y	156 (158.2)	-2.6	1.8	-	-	-	-	RNP 1
2	CA	-	-	156 (158.2)	-2.6	-	-	+500	-	-	RNP 1
3	DF	MIRAV	-	-	-2.6	-	L	-	-250	-	RNP 1
4	TF	DERTI	-	336 (338.3)	-2.6	6.0	-	+4000	-	-	RNP 1
5	TF	GIDOS	-	336 (338.3)	-2.6	5.9	-	@5000	-	-	RNP 1
6	TF	PASIS	-	336 (338.3)	-2.6	7.4	-	-8000/+7000	-	-	RNP 1
7	TF	GIBIN	-	013 (015.6)	-2.6	8.5	-	-	-	-	RNP 1
8	TF	EMISA	-	341 (343.9)	-2.6	7.1	-	-	-	-	RNP 1
9	TF	IMSUN	-	335 (337.5)	-2.6	8.4	-	-FL170	-	-	RNP 1
10	TF	MISEL	-	296 (298.2)	-2.6	30.3	-	-	-	-	RNP 1
11	TF	LUBET	-	318 (320.6)	-2.6	7.2	-	+FL180	-	-	RNP 1
Remarks		LUBET +FL180 by ATC only									

RNP SID LUBET 1Y

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	CF	KIVOD	Y	156 (158.2)	-2.6	1.8	-	-	-	-	RNP 1
2	CA	-	-	156 (158.2)	-2.6	-	-	+500	-	-	RNP 1
3	DF	MIRAV	-	-	-2.6	-	L	-	-250	-	RNP 1
4	TF	DERTI	-	336 (338.3)	-2.6	6.0	-	+4000	-	-	RNP 1
5	TF	GIDOS	-	336 (338.3)	-2.6	5.9	-	@5000	-	-	RNP 1
6	TF	PASIS	-	336 (338.3)	-2.6	7.4	-	-8000/+7000	-	-	RNP 1
7	TF	DEBIL	-	339 (341.4)	-2.6	12.3	-	-13000	-	-	RNP 1
8	TF	ALNAK	-	334 (337.1)	-2.6	7.9	-	-	-	-	RNP 1
9	TF	PATOM	-	296 (298.2)	-2.6	15.8	-	+FL160	-	-	RNP 1
10	TF	MISEL	-	318 (320.7)	-2.6	13.9	-	-	-	-	RNP 1
11	TF	LUBET	-	318 (320.6)	-2.6	7.2	-	+FL180	-	-	RNP 1
Remarks		PATOM +FL160 and LUBET +FL180 by ATC only									

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RNP SID TULUB 1M											
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	CF	**KIVOD**	Y	156 (158.2)	-2.6	1.8	-	-	-	-	RNP 1
2	CA	**-**	-	156 (158.2)	-2.6	-	-	+500	-	-	RNP 1
3	DF	**MIRAV**	-	-	-2.6	-	L	-	-250	-	RNP 1
4	TF	**DERTI**	-	336 (338.3)	-2.6	6.0	-	+4000	-	-	RNP 1
5	TF	**GIDOS**	-	336 (338.3)	-2.6	5.9	-	@5000	-	-	RNP 1
6	TF	**PASIS**	-	336 (338.3)	-2.6	7.4	-	-8000/+7000	-	-	RNP 1
7	TF	**DEBIL**	-	339 (341.4)	-2.6	12.3	-	-13000	-	-	RNP 1
8	TF	**ALNAK**	-	334 (337.1)	-2.6	7.9	-	-	-	-	RNP 1
9	TF	**PATOM**	-	296 (298.2)	-2.6	15.8	-	+FL160	-	-	RNP 1
10	TF	**TULUB**	-	295 (297.4)	-2.6	18.2	-	+FL180	-	-	RNP 1
Remarks		PATOM +FL160 and TULUB +FL180 by ATC only									

WAYPOINT LIST

RNP SID ALVEN 2M /LUBET 1M /LUBET 1Y /TULUB 1M	
Waypoint Identifier	**Coordinates**
KIVOD	251339.57N 0513820.46E
MIRAV	251400.80N 0514937.14E
DERTI	251934.52N 0514711.24E
GIDOS	252502.23N 0514447.73E
PASIS	253154.63N 0514146.81E
GIBIN	254006.23N 0514417.85E
ALVEN	255418.19N 0515315.30E

RNP SID ALVEN 2M /LUBET 1M /LUBET 1Y /TULUB 1M	
Waypoint Identifier	**Coordinates**
EMISA	254658.35N 0514206.68E
IMSUN	255445.54N 0513833.11E
MISEL	260906.55N 0510850.78E
LUBET	261440.67N 0510346.54E
DEBIL	254336.08N 0513726.39E
ALNAK	255053.49N 0513401.89E
PATOM	255821.41N 0511836.36E
TULUB	260644.00N 0510041.00E

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