

STAR RNAV1 or RNP1 RWY 21 - Description**REMARK**

- (1) For "monitoring and alerting" reasons, RNP1 specification is required in case of radar service unavailability or degradation.
- (2) MEL FL90 ATC Discretion when LIR102 is not active
- (3) MEA 5000 FT ATC Discretion when LIR102 is not active
- (4) MAX FL90 (Higher FL ATC Discretion)

EGHIN 2Z

Path Terminator	Waypoint Identifier	Fly Over	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	EGHIN	-	-	-	-	-	-	-	RNAV1/RNP1 (1)
TF	ENOB	-	012 (014.1)	-	15.1	-	+FL110	250	RNAV1/RNP1 (1)
TF	RAZOZ	-	343 (345.6)	-	17.1	-	+FL95 (2)	250	RNAV1/RNP1 (1)
TF	LUSFU	-	309 (311.0)	-	8.9	-	+FL95 (2)	230	RNAV1/RNP1 (1)
TF	EPZEN	-	309 (311.0)	-	8.2	-	+FL95 (3)	-210	RNAV1/RNP1 (1)
TF	MZ419	-	235 (237.6)	-	3.0	-	-FL90 (4) +5000	-	RNAV1/RNP1 (1)
TF	TOPRU	-	235 (237.6)	-	4.7	-	-FL90 (4) +4000	-	RNAV1/RNP1 (1)

GEN 2Z

Path Terminator	Waypoint Identifier	Fly Over	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	GEN	-	-	-	-	-	-	-	RNAV1/RNP1 (1)
TF	RAZOZ	-	281 (283.9)	-	38.7	-	+FL95 (2)	250	RNAV1/RNP1 (1)
TF	LUSFU	-	309 (311.0)	-	8.9	-	+FL95 (2)	230	RNAV1/RNP1 (1)
TF	EPZEN	-	309 (311.0)	-	8.2	-	+FL95 (3)	210	RNAV1/RNP1 (1)
TF	MZ419	-	235 (237.6)	-	3.0	-	-FL90 (4) +5000	-	RNAV1/RNP1 (1)
TF	TOPRU	-	235 (237.6)	-	4.7	-	-FL90 (4) +4000	-	RNAV1/RNP1 (1)

KUMIN 2Z

Path Terminator	Waypoint Identifier	Fly Over	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	KUMIN	-	-	-	-	-	-	-	RNAV1/RNP1 (1)
TF	EDVOC	-	080 (082.1)	-	6.3	-	+FL120	250	RNAV1/RNP1 (1)
TF	IMROC	-	090 (092.8)	-	12.0	-	+6000	230	RNAV1/RNP1 (1)
TF	MZ417	-	180 (182.6)	-	5.6	R	-FL 90 (4) +5000	-	RNAV1/RNP1 (1)
TF	MZ416	-	180 (182.6)	-	5.0	-	-FL90 (4) +5000	210	RNAV1/RNP1 (1)
TF	TOPRU	-	181 (183.2)	-	6.0	-	-FL90 (4) +4000	-	RNAV1/RNP1 (1)

LAGEN 2V

Path Terminator	Waypoint Identifier	Fly Over	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	LAGEN	-	-	-	-	-	-	-	RNAV1/RNP1 (1)
TF	RAZOZ	-	309 (311.2)	-	16.7	-	+FL95 (2)	250	RNAV1/RNP1 (1)
TF	LUSFU	-	309 (311.0)	-	8.9	-	+FL95 (2)	230	RNAV1/RNP1 (1)
TF	EPZEN	-	309 (311.0)	-	8.2	-	+FL95 (3)	210	RNAV1/RNP1 (1)
TF	MZ419	-	235 (237.6)	-	3.0	-	-FL90 (4) +5000	-	RNAV1/RNP1 (1)
TF	TOPRU	-	235 (237.6)	-	4.7	-	-FL90 (4) +4000	-	RNAV1/RNP1 (1)

NELAB 2Z

Path Terminator	Waypoint Identifier	Fly Over	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	NELAB	-	-	-	-	-	-	-	RNAV1/RNP1 (1)
TF	RUFHO	-	206 (208.8)	-	26.1	-	+FL110	250	RNAV1/RNP1 (1)
TF	BENQA	-	258 (260.6)	-	13.7	-	+FL90	250	RNAV1/RNP1 (1)
TF	MZ418	-	180 (182.6)	-	10.0	-	+6000	230	RNAV1/RNP1 (1)
TF	IMROC	-	180 (182.6)	-	4.4	-	+6000	230	RNAV1/RNP1 (1)
TF	MZ417	-	180 (182.6)	-	5.6	-	-FL90 (4) +5000	-	RNAV1/RNP1 (1)
TF	MZ416	-	180 (182.7)	-	5.0	-	-FL90 (4) +5000	210	RNAV1/RNP1 (1)
TF	TOPRU	-	181 (183.2)	-	6.0	-	-FL90 (4) +4000	-	RNAV1/RNP1 (1)

VEROB 2Z

Path Terminator	Waypoint Identifier	Fly Over	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	VEROB	-	-	-		-	-	-	RNAV1/RNP1 (1)
TF	IDRIF	-	104 (131.7)	-	10.3	-	+FL130	-	RNAV1/RNP1 (1)
TF	BENQA	-	104 (182.5)	-	7.6	-	+FL90	250	RNAV1/RNP1 (1)
TF	MZ418	-	180 (182.6)	-	10.0	-	+6000	230	RNAV1/RNP1 (1)
TF	IMROC	-	180 (182.6)	-	4.4	-	+6000	230	RNAV1/RNP1 (1)
TF	MZ417	-	180 (182.6)	-	5.6	-	-FL90 (4) +5000	-	RNAV1/RNP1 (1)
TF	MZ416	-	180 (182.7)	-	5.0	-	-FL90 (4) +5000	210	RNAV1/RNP1 (1)
TF	TOPRU	-	181 (183.2)	-	6.0	-	-FL90 (4) +4000	-	RNAV1/RNP1 (1)

VOG 2R

Path Terminator	Waypoint Identifier	Fly Over	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	Navigation Specification
IF	VOG	-	-	-		-	-	-	RNAV1/RNP1 (1)
TF	ITHON	-	256 (258.1)	-	40.3	-	+FL95 (2)	230	RNAV1/RNP1 (1)
TF	EPZEN	-	237 (239.4)	-	7.0	-	+5000	210	RNAV1/RNP1 (1)
TF	MZ419	-	235 (237.6)	-	3.0	-	-FL90 (4) +5000	-	RNAV1/RNP1 (1)
TF	TOPRU	-	235 (237.6)	-	4.7	-	-FL90 (4) +4000	-	RNAV1/RNP1 (1)

HOLDING RNAV1

Path Terminator	Waypoint Identifier	Inbound Course °M (°T)	Leg Distance (NM) (1)	Timing(min)/Waypoint Distance (NM) (2)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FL)	Speed Limit (kt)	Magnetic Variation (°)	Navigation Specification
HM	TOPRU	196 (198.0)	3.4	-/4.2	R	+4000	-FL90 (3)	-185	2.4 E	RNAV1

REMARK

- (1) For RNAV system with holding functionality
- (2) For RNAV system without holding functionality
- (3) MAX FL90 (Higher FL ATC Discretion)

WAYPOINT LIST

Waypoint Identifier	Coordinates
MZ416	44°47'37.63" N 007°45'51.64" E
MZ417	44°52'37.35" N 007°46'11.86" E
MZ418	45°02'36.81" N 007°46'51.17" E
MZ419	44°44'11.01" N 007°50'45.48" E