

TEL: +91-11-24632950 Extn: 2219/2233 AFS: VIDDYXAX FAX: +91-11-24615508 Email: gmais@aai.aero	INDIA AERONAUTICAL INFORMATION SERVICE AIRPORTS AUTHORITY OF INDIA RAJIV GANDHI BHAVAN SAFDARJUNG AIRPORT NEW DELHI – 110003	121/2026
		25 JUN 2026

File No. ATM-19013(19)/1/2026-ATM

Following supplement is issued for information, guidance and necessary action.

sd/-

विपिन कुमार

VIPIN KUMAR

अध्यक्ष/CHAIRMAN

भारतीय विमानपत्तन प्राधिकरण

AIRPORTS AUTHORITY OF INDIA

[EFFECTIVE DATE: 06 AUG 2026]

RNAV - 1 (GNSS) SIDs AND STARs

CHHATRAPATI SHIVAJI MAHARAJ INTERNATIONAL AIRPORT **MUMBAI (VABB)**

1. The following RNAV Standard Arrival Charts - Instrument (STAR) and RNAV Standard Departure Charts - Instrument (SID) are issued for Chhatrapati Shivaji Maharaj International Airport, Mumbai:
 - i) Standard Departure Charts – Instrument (SID) RWY 09
 - ii) Standard Departure Charts – Instrument (SID) RWY 27
 - iii) Standard Departure Charts – Instrument (SID) RWY 14
 - iv) Standard Departure Charts – Instrument (SID) RWY 32
 - v) Standard Arrival Charts – Instrument (STAR) RWY 09
 - vi) Standard Arrival Charts – Instrument (STAR) RWY 27
 - vii) Standard Arrival Charts – Instrument (STAR) RWY 14
 - viii) Standard Arrival Charts – Instrument (STAR) RWY 32

AMENDMENT/CANCELLATION

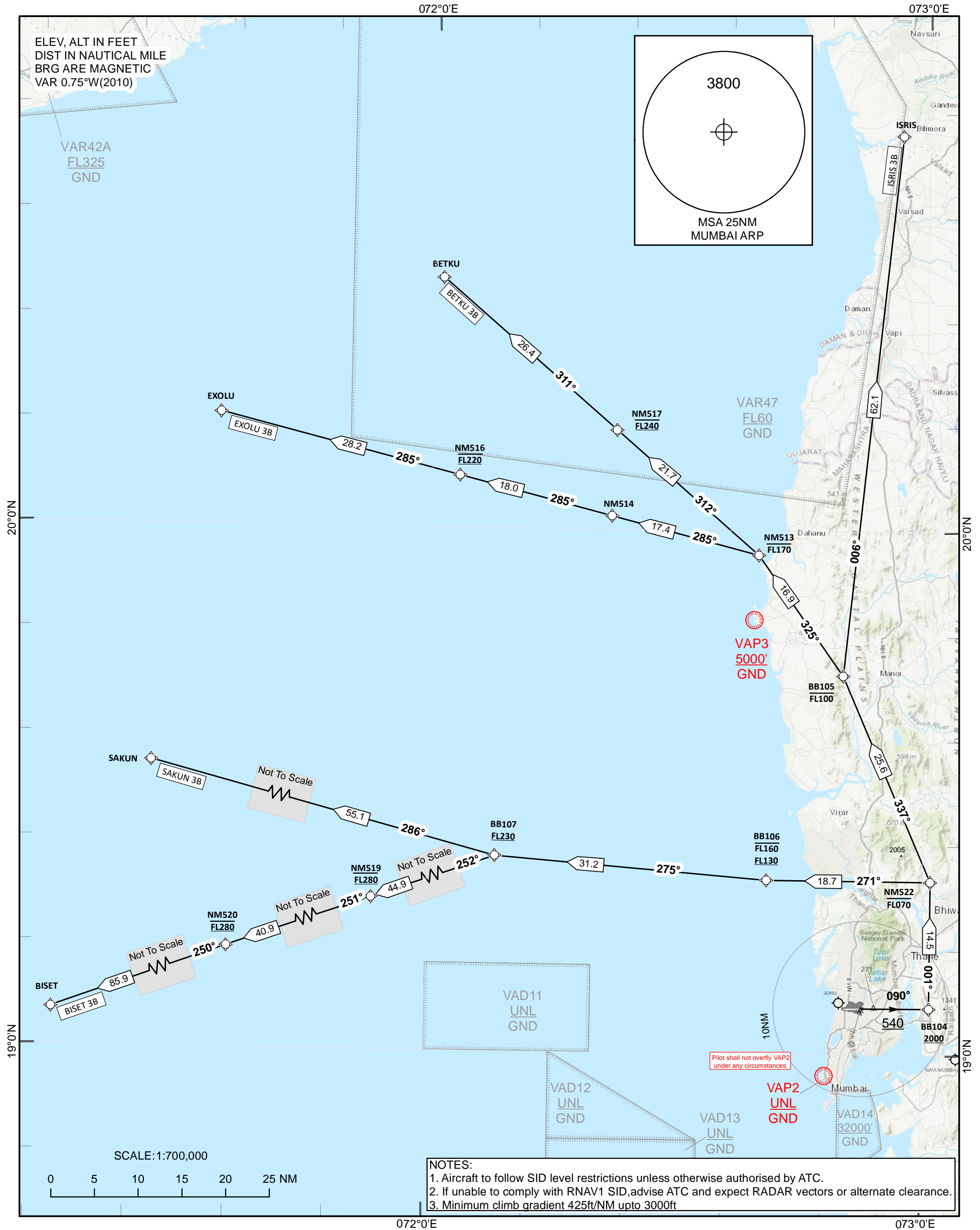
1. Cancel AIP Supplement 84/2020
2. CANCEL NOTAM G0172/25, VIDPYNXX
3. CANCEL NOTAM G0183/25, VIDPYNXX

**STANDARD DEPARTURE CHART
INSTRUMENT (SID)**
**RNAV1(GNSS)
SURVEILLANCE REQUIRED**

**TRANSITION ALT
6000**

132.700 ACC(N)	APP 119.300
125.350 ACC(S)	120.350
133.300 ACC(W)	127.900
133.425 LAC(1)	TWR 118.100
133.850 LAC(2)	122.500

MUMBAI (VABB)
INDIA
BETKU 3B, BISET 3B,
EXOLU 3B,ISRIS 3B, SAKUN 3B
RWY09



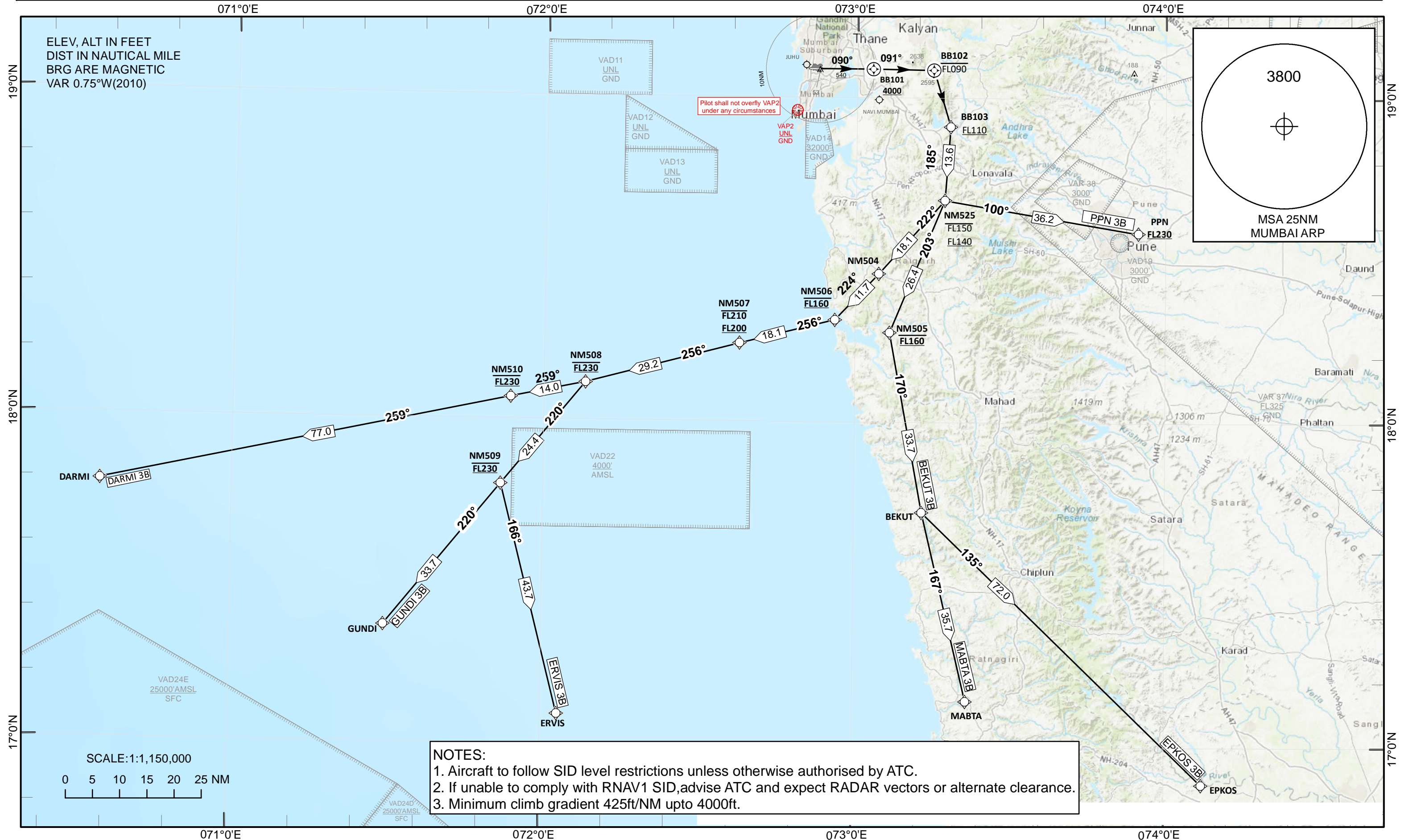
**STANDARD DEPARTURE CHART
INSTRUMENT (SID)**
**RNAV1(GNSS)
SURVEILLANCE REQUIRED**

**TRANSITION ALT
6000**

132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

APP 119.300
120.350
127.900
TWR 118.100
122.500

MUMBAI (VABB)
INDIA
BEKUT 3B, DARMI 3B,
EPKOS 3B, ERVIS 3B,
GUNDI 3B, MABTA 3B, PPN3B
RWY09



NOTES:
1. Aircraft to follow SID level restrictions unless otherwise authorised by ATC.
2. If unable to comply with RNAV1 SID, advise ATC and expect RADAR vectors or alternate clearance.
3. Minimum climb gradient 425ft/NM upto 4000ft.

**STANDARD DEPARTURE CHART
INSTRUMENT (SID)**

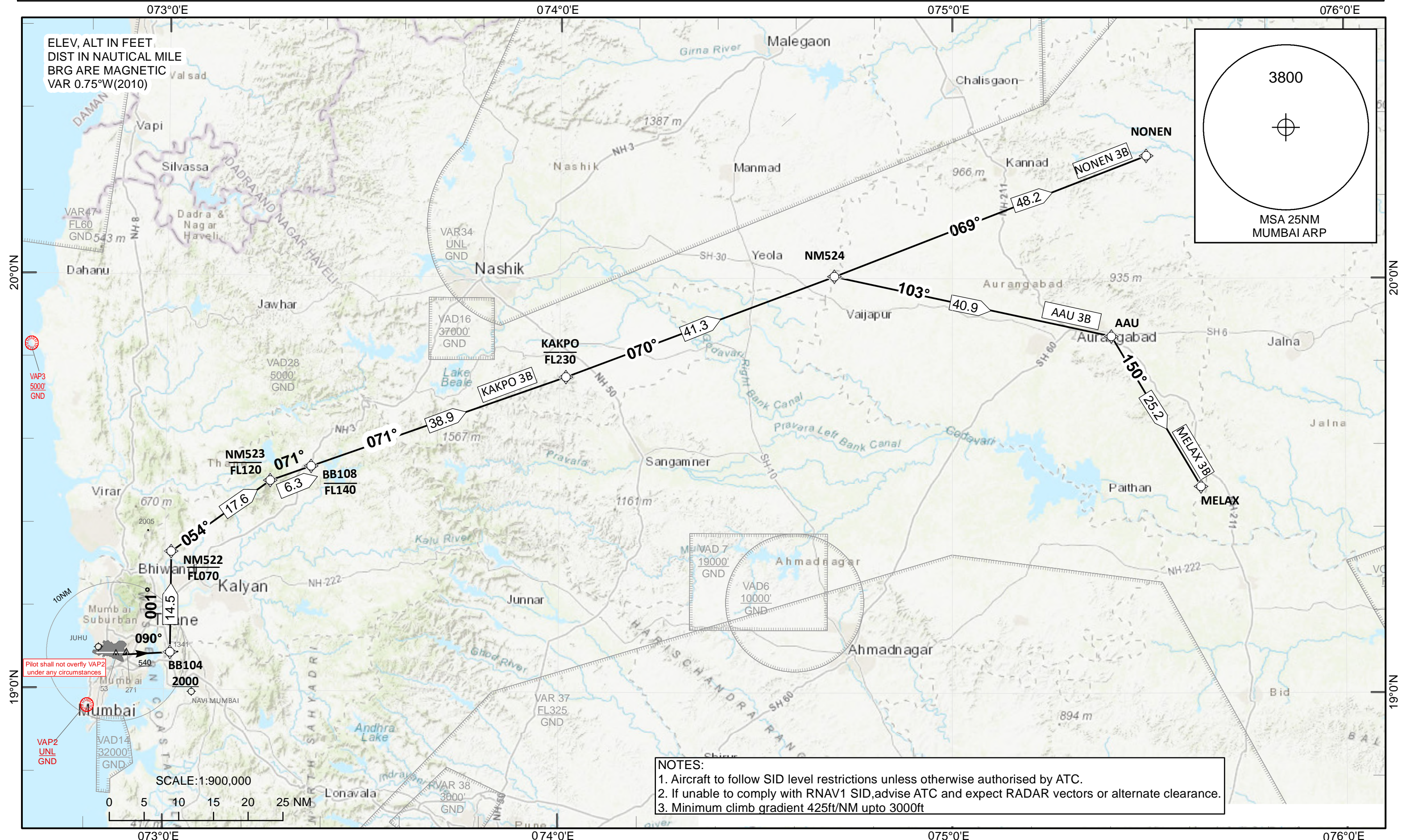
**RNAV1(GNSS)
SURVEILLANCE REQUIRED**

**TRANSITION ALT
6000**

132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

APP 119.300
120.350
127.900
TWR 118.100
122.500

MUMBAI (VABB)
INDIA
AAU3B, KAKPO3B,
MELAX3B, NONEN3B
RWY09



TABULAR DESCRIPTION

SID AAU 3B - RWY 09										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			090.27(089.52)			+540		7	RNAV 1
20	DF	BB104					+2000		7	RNAV 1
30	TF	NM522		000.83(000.08)	14.50		-FL070			RNAV 1
40	TF	NM523		054.40(053.65)	17.57		-FL120			RNAV 1
50	TF	BB108		070.90(070.15)	6.27		-FL140			RNAV 1
60	TF	KAKPO		071.01(070.26)	38.87		-FL230			RNAV 1
70	TF	NM524		069.93(069.18)	41.28					RNAV 1
80	TF	AAU		102.72(101.97)	40.89					RNAV 1

SID KAKPO 3B - RWY 09										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			090.27(089.52)			+540		7	RNAV 1
20	DF	BB104					+2000		7	RNAV 1
30	TF	NM522		000.83(0.08)	14.50		-FL070			RNAV 1
40	TF	NM523		054.40(053.65)	17.57		-FL120			RNAV 1
50	TF	BB108		070.90(070.15)	6.27		-FL140			RNAV 1
60	TF	KAKPO		071.01(070.26)	38.87		-FL230			RNAV 1

SID MELAX 3B - RWY 09										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			090.27(089.52)			+540		7	RNAV 1
20	DF	BB104					+2000		7	RNAV 1
30	DF	NM522		000.83(0.08)	14.50		-FL070			RNAV 1
40	DF	NM523		054.40(053.65)	17.57		-FL120			RNAV 1
50	TF	BB108		070.90(070.15)	6.27		-FL140			RNAV 1
60	TF	KAKPO		071.01(070.26)	38.87		-FL230			RNAV 1
70	TF	NM524		069.93(069.18)	41.28					RNAV 1
80	TF	AAU		102.72(101.97)	40.89					RNAV 1
90	TF	MELAX		150.10(149.35)	25.16					RNAV 1

SID NONEN 3B - RWY 09										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			090.27(089.52)			+540		7	RNAV 1
20	DF	BB104					+2000		7	RNAV 1
30	DF	NM522		000.83(0.08)	14.50		-FL070			RNAV 1
40	DF	NM523		054.40(053.65)	17.57		-FL120			RNAV 1
50	TF	BB108		070.90(070.15)	6.27		-FL140			RNAV 1
60	TF	KAKPO		071.01(070.26)	38.87		-FL230			RNAV 1
70	TF	NM524		069.93(069.18)	41.28					RNAV 1
80	TF	NONEN		069.41(068.66)	48.22					RNAV 1

TABULAR DESCRIPTION

SID BEKUT 3B - RWY 09										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			090.27(089.52)			+540		7	RNAV 1
20	DF	BB101	Y				+4000		7	RNAV 1
30	CF	BB102	Y	091.38(090.63)			-FL090			RNAV 1
40	DF	BB103					+FL110			RNAV 1
50	TF	NM525		184.92(184.17)	13.62		-FL150 +FL140			RNAV 1
60	TF	NM505		203.12(202.37)	26.37		@FL160			RNAV 1
70	TF	BEKUT		170.17(169.42)	33.69					RNAV 1

SID DARMI 3B - RWY 09										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			090.27(089.52)			+540		7	RNAV 1
20	DF	BB101	Y				+4000		7	RNAV 1
30	CF	BB102	Y	091.38(090.63)			-FL090			RNAV 1
40	DF	BB103					+FL110			RNAV 1
50	TF	NM525		184.92(184.17)	13.62		-FL150 +FL140			RNAV 1
60	TF	NM504		222.34(221.59)	18.14					RNAV 1
70	TF	NM506		224.20(223.45)	11.69		@FL160			RNAV 1
80	TF	NM507		256.45(255.70)	18.06		-FL210 +FL200			RNAV 1
90	TF	NM508		255.94(255.19)	29.22		@FL230			RNAV 1
100	TF	NM510		259.07(258.32)	13.98		@FL230			RNAV 1
110	TF	DARMI		258.74(257.99)	77.03					RNAV 1

SID EPKOS 3B - RWY 09										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			090.27(089.52)			+540		7	RNAV 1
20	DF	BB101	Y				+4000		7	RNAV 1
30	CF	BB102	Y	091.38(090.63)			-FL090			RNAV 1
40	DF	BB103					+FL110			RNAV 1
50	TF	NM525		184.92(184.17)	13.62		-FL150 +FL140			RNAV 1
60	TF	NM505		203.12(202.37)	26.37		@FL160			RNAV 1
70	TF	BEKUT		170.17(169.42)	33.69					RNAV 1
80	TF	EPKOS		134.62(133.87)	72.00					RNAV 1

SID ERVIS 3B - RWY 09

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			090.27(089.52)			+540		7	RNAV 1
20	DF	BB101	Y				+4000		7	RNAV 1
30	CF	BB102	Y	091.38(090.63)			-FL090			RNAV 1
40	DF	BB103					+FL110			RNAV 1
50	TF	NM525		184.92(184.17)	13.62		-FL150 +FL140			RNAV 1
60	TF	NM504		222.34(221.59)	18.14					RNAV 1
70	TF	NM506		224.20(223.45)	11.69		@FL160			RNAV 1
80	TF	NM507		256.45(255.70)	18.06		-FL210 +FL200			RNAV 1
90	TF	NM508		255.94(255.19)	29.22		@FL230			RNAV 1
100	TF	NM509		219.92(219.17)	24.39		@FL230			RNAV 1
110	TF	ERVIS		166.27(165.52)	43.66					RNAV 1

SID GUNDI 3B - RWY 09

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			090.27(089.52)			+540		7	RNAV 1
20	DF	BB101	Y				+4000		7	RNAV 1
30	CF	BB102	Y	091.38(090.63)			-FL090			RNAV 1
40	DF	BB103					+FL110			RNAV 1
50	TF	NM525		184.92(184.17)	13.62		-FL150 +FL140			RNAV 1
60	TF	NM504		222.34(221.59)	18.14					RNAV 1
70	TF	NM506		224.20(223.45)	11.69		@FL160			RNAV 1
80	TF	NM507		256.45(255.70)	18.06		-FL210 +FL200			RNAV 1
90	TF	NM508		255.94(255.19)	29.22		@FL230			RNAV 1
100	TF	NM509		219.92(219.17)	24.39		@FL230			RNAV 1
110	TF	GUNDI		219.85(219.10)	33.72					RNAV 1

SID MABTA 3B - RWY 09

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			090.27(089.52)			+540		7	RNAV 1
20	DF	BB101	Y				+4000		7	RNAV 1
30	CF	BB102	Y	091.38(090.63)			-FL090			RNAV 1
40	DF	BB103					+FL110			RNAV 1
50	TF	NM525		184.92(184.17)	13.62		-FL150 +FL140			RNAV 1
60	TF	NM505		203.12(202.37)	26.37		@FL160			RNAV 1
70	TF	BEKUT		170.17(169.42)	33.69					RNAV 1
80	TF	MABTA		167.29(166.54)	35.71					RNAV 1

SID PPN 3B - RWY 09

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			090.27(089.52)			+540		7	RNAV 1
20	DF	BB101	Y				+4000		7	RNAV 1
30	CF	BB102	Y	091.38(090.63)			-FL090			RNAV 1
40	DF	BB103					+FL110			RNAV 1
50	TF	NM525		184.92(184.17)	13.62		-FL150 +FL140			RNAV 1
60	TF	PPN		100.17(099.42)	36.20		+FL230			RNAV 1

TABULAR DESCRIPTION

SID BETKU 3B - RWY 09										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			090.27(089.52)			+540		7	RNAV 1
20	DF	BB104					+2000		7	RNAV 1
30	TF	NM522		000.83(0.08)	14.50		-FL070			RNAV 1
40	TF	BB105		337.30(336.55)	25.58		-FL100			RNAV 1
50	TF	NM513		325.25(324.50)	16.87		-FL170			RNAV 1
60	TF	NM517		311.50(310.75)	21.66		@FL240			RNAV 1
70	TF	BETKU		311.37(310.62)	26.38					RNAV 1

SID BISET 3B - RWY 09										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			090.27(089.52)			+540		7	RNAV 1
20	DF	BB104					+2000		7	RNAV 1
30	TF	NM522		000.83(0.08)	14.50		-FL070			RNAV 1
40	TF	BB106		271.01(270.26)	18.74		-FL160 +FL130			RNAV 1
50	TF	BB107		275.24(274.49)	31.20		+FL230			RNAV 1
60	TF	NM519		251.57(250.82)	44.92		@FL280			RNAV 1
70	TF	NM520		251.28(250.53)	40.90		@FL280			RNAV 1
80	TF	BISET		250.35(249.60)	85.87					RNAV 1

SID EXOLU 3B - RWY 09										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			090.27(089.52)			+540		7	RNAV 1
20	DF	BB104					+2000		7	RNAV 1
30	TF	NM522		000.83(0.08)	14.50		-FL070			RNAV 1
40	TF	BB105		337.30(336.55)	25.58		-FL100			RNAV 1
50	TF	NM513		325.25(324.50)	16.87		-FL170			RNAV 1
60	TF	NM514		285.05(284.30)	17.41					RNAV 1
70	TF	NM516		284.95(284.20)	18.00		@FL220			RNAV 1
80	TF	EXOLU		284.84(284.09)	28.24					RNAV 1

SID ISRIS 3B - RWY 09										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			090.27(089.52)			+540		7	RNAV 1
20	DF	BB104					+2000		7	RNAV 1
30	TF	NM522		000.83(0.08)	14.50		-FL070			RNAV 1
40	TF	BB105		337.30(336.55)	25.58		-FL100			RNAV 1
50	TF	ISRIS		006.49(005.74)	62.09					RNAV 1

SID SAKUN 3B - RWY 09

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			090.27(089.52)			+540		7	RNAV 1
20	DF	BB104					+2000		7	RNAV 1
30	TF	NM522		000.83(0.08)	14.50		-FL070			RNAV 1
40	TF	BB106		271.01(270.26)	18.74		-FL160 +FL130			RNAV 1
50	TF	BB107		275.24(274.49)	31.20		+FL230			RNAV 1
60	TF	SAKUN		285.64(284.89)	55.10					RNAV 1

**STANDARD DEPARTURE CHART
INSTRUMENT (SID)**

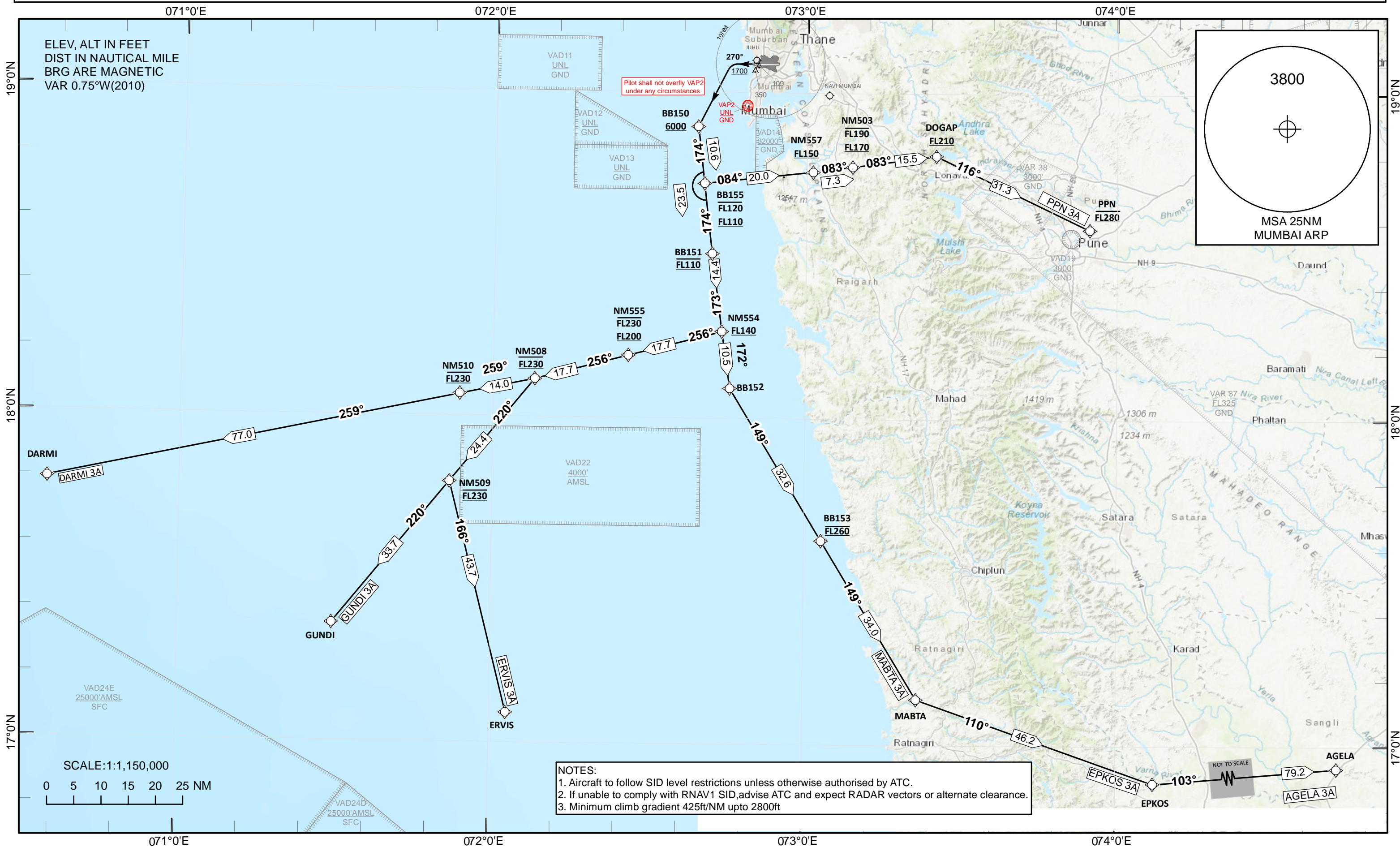
**RNAV1(GNSS)
SURVEILLANCE REQUIRED**

TRANSITION ALT
6000

132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

APP 119.300
120.350
127.900
TWR 118.100
122.500

MUMBAI (VABB)
INDIA
AGELA 3A, DARMI 3A,
EPKOS 3A, ERVIS 3A,
GUNDI 3A, MABTA 3A, PPN 3A
RWY27



**STANDARD DEPARTURE CHART
INSTRUMENT (SID)**

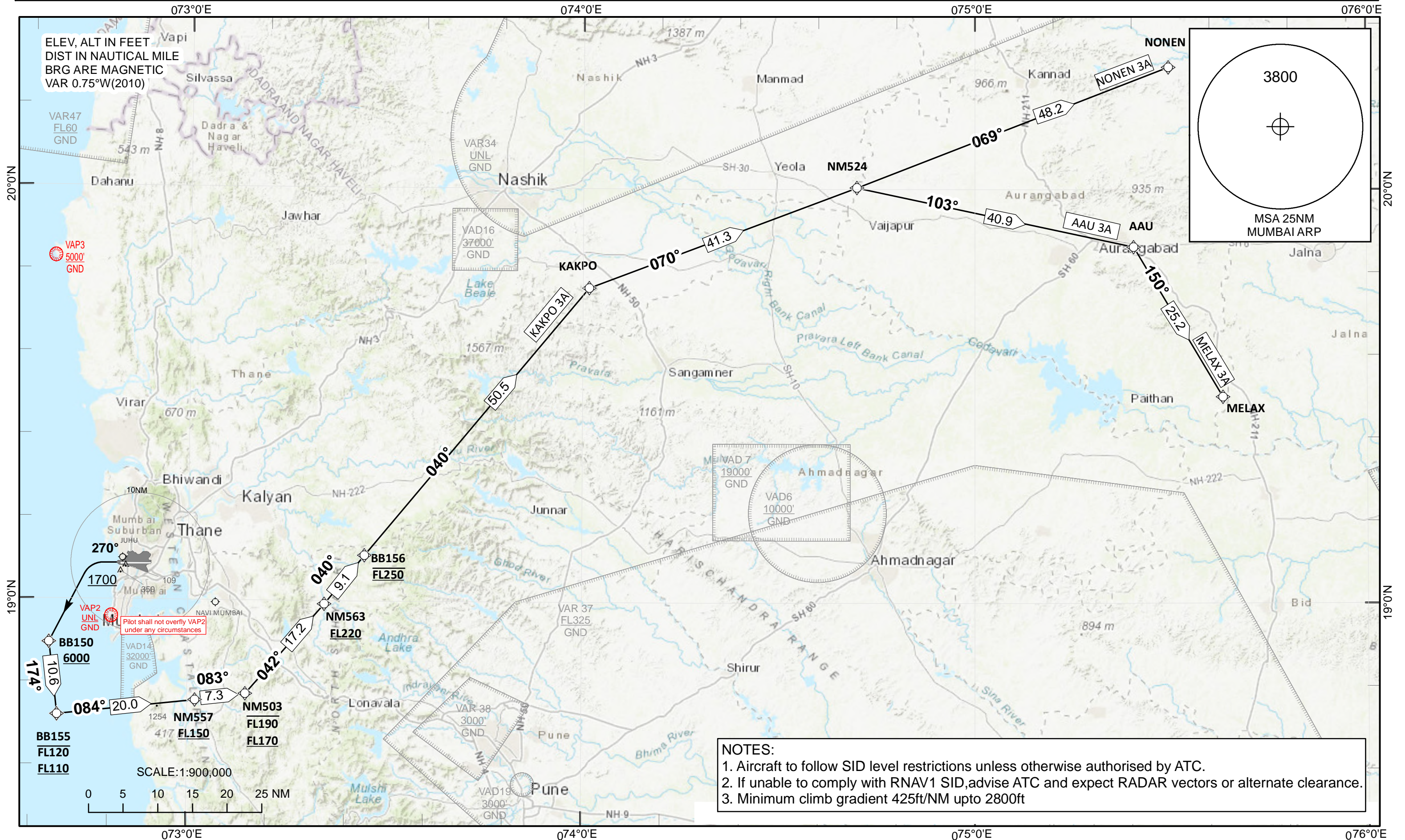
**RNAV1(GNSS)
SURVEILLANCE REQUIRED**

**TRANSITION ALT
6000**

132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

APP 119.300
120.350
127.900
TWR 118.100
122.500

MUMBAI (VABB)
INDIA
AAU 3A, KAKPO 3A,
MELAX 3A, NONEN 3A
RWY27



**STANDARD DEPARTURE CHART
INSTRUMENT (SID)**

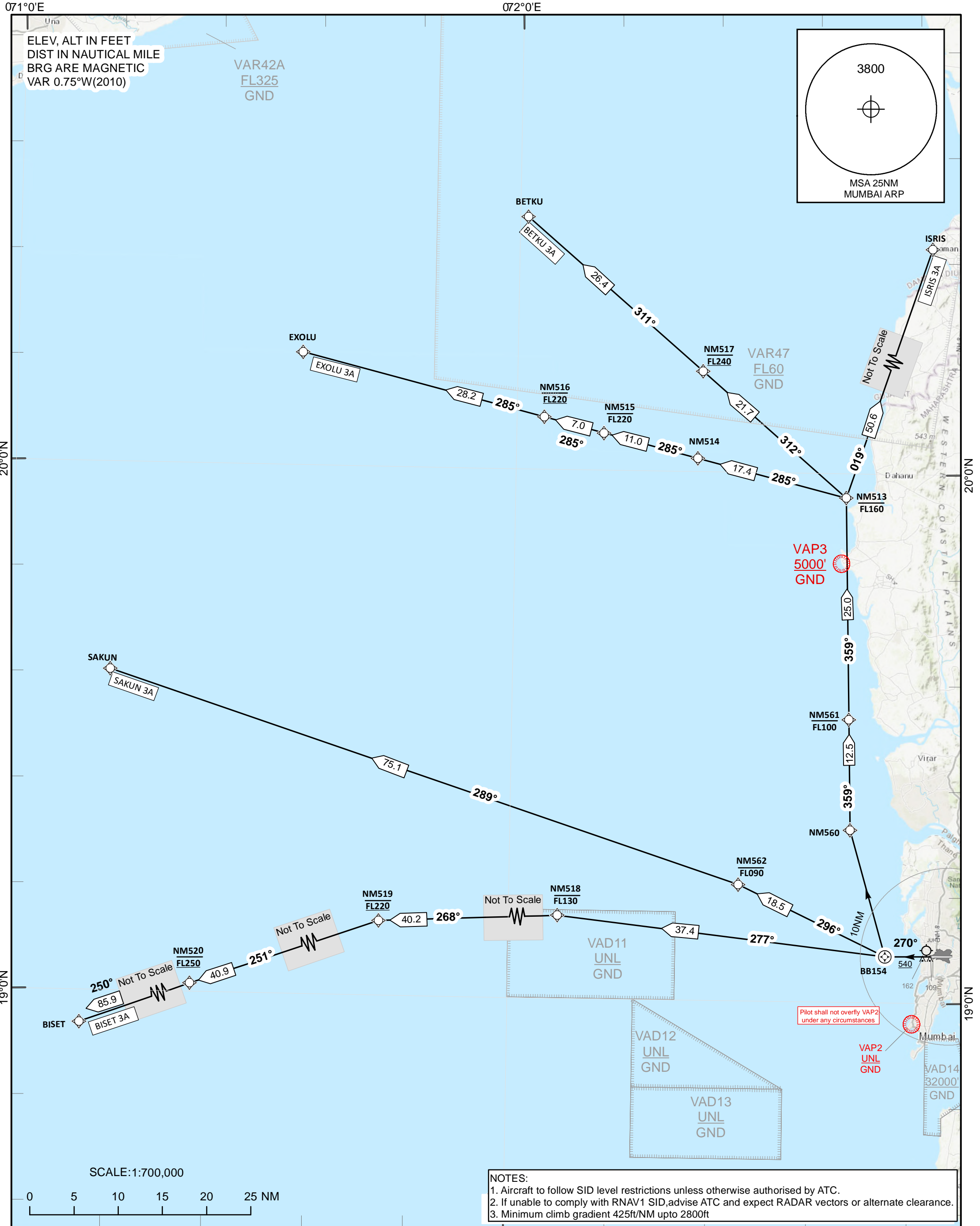
**RNAV1(GNSS)
SURVEILLANCE REQUIRED**

TRANSITION ALT
6000

132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

APP 119.300
120.350
127.900
TWR 118.100
122.500

MUMBAI (VABB)
INDIA
BETKU 3A, BISET 3A,
EXOLU 3A, ISRIS 3A, SAKUN 3A
RWY27



NOTES:
1. Aircraft to follow SID level restrictions unless otherwise authorised by ATC.
2. If unable to comply with RNAV1 SID, advise ATC and expect RADAR vectors or alternate clearance.
3. Minimum climb gradient 425ft/NM upto 2800ft

TABULAR DESCRIPTION

SID AAU 3A - RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			270.27(269.52)			+1700		7	RNAV 1
20	DF	BB150				L	+6000			RNAV 1
30	TF	BB155		173.90(173.15)	10.55		-FL120 +FL110			RNAV 1
40	TF	NM557		084.27(083.52)	20.01		+FL150			RNAV 1
50	TF	NM503		082.96(082.21)	7.32		-FL190 +FL170			RNAV 1
60	TF	NM563		041.75(041.00)	17.23		+FL220			RNAV 1
70	TF	BB156		039.84(039.09)	9.12		@FL250			RNAV 1
80	TF	KAKPO		040.34(039.59)	50.46					RNAV 1
90	TF	NM524		069.93(069.18)	41.28					RNAV 1
100	TF	AAU		102.72(101.97)	40.89					RNAV 1

SID KAKPO 3A - RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			270.27(269.52)			+1700		7	RNAV 1
20	DF	BB150				L	+6000			RNAV 1
30	TF	BB155		173.90(173.15)	10.55		-FL120 +FL110			RNAV 1
40	TF	NM557		084.27(083.52)	20.01		+FL150			RNAV 1
50	TF	NM503		082.96(082.21)	7.32		-FL190 +FL170			RNAV 1
60	TF	NM563		041.75(041.00)	17.23		+FL220			RNAV 1
70	TF	BB156		039.84(039.09)	9.12		@FL250			RNAV 1
80	TF	KAKPO		040.34(039.59)	50.46					RNAV 1

SID MELAX 3A - RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			270.27(269.52)			+1700		7	RNAV 1
20	DF	BB150				L	+6000			RNAV 1
30	TF	BB155		173.90(173.15)	10.55		-FL120 +FL110			RNAV 1
40	TF	NM557		084.27(083.52)	20.01		+FL150			RNAV 1
50	TF	NM503		082.96(082.21)	7.32		-FL190 +FL170			RNAV 1
60	TF	NM563		041.75(041.00)	17.23		+FL220			RNAV 1
70	TF	BB156		039.84(039.09)	9.12		@FL250			RNAV 1
80	TF	KAKPO		040.34(039.59)	50.46					RNAV 1
90	TF	NM524		069.93(069.18)	41.28					RNAV 1
100	TF	AAU		102.72(101.97)	40.89					RNAV 1
110	TF	MELAX		150.12(149.35)	25.16					RNAV 1

SID NONEN 3A - RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			270.27(269.52)			+1700		7	RNAV 1
20	DF	BB150				L	+6000			RNAV 1
30	TF	BB155		173.90(173.15)	10.55		-FL120 +FL110			RNAV 1
40	TF	NM557		084.27(083.52)	20.01		+FL150			RNAV 1
50	TF	NM503		082.96(082.21)	7.32		-FL190 +FL170			RNAV 1
60	TF	NM563		041.75(041.00)	17.23		+FL220			RNAV 1
70	TF	BB156		039.84(039.09)	9.12		@FL250			RNAV 1
80	TF	KAKPO		040.34(039.59)	50.46					RNAV 1
90	TF	NM524		069.93(069.18)	41.28					RNAV 1
100	TF	NONEN		069.41(068.66)	48.22					RNAV 1

TABULAR DESCRIPTION

SID AGELA 3A - RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			270.27(269.52)			+1700		7	RNAV 1
20	DF	BB150				L	+6000			RNAV 1
30	TF	BB151		173.97(173.22)	23.53		@FL110			RNAV 1
40	TF	NM554		173.03(172.28)	14.41		+FL140			RNAV 1
50	TF	BB152		172.28(171.53)	10.50					RNAV 1
60	TF	BB153		149.30(148.55)	32.55		@FL260			RNAV 1
70	TF	MABTA		149.39(148.64)	33.99					RNAV 1
80	TF	EPKOS		109.97(109.22)	46.16					RNAV 1
90	TF	AGELA		102.70(101.95)	79.24					RNAV 1

SID DARMI 3A - RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			270.27(269.52)			+1700		7	RNAV 1
20	DF	BB150				L	+6000			RNAV 1
30	TF	BB151		173.97(173.22)	23.53		@FL110			RNAV 1
40	TF	NM554		173.03(172.28)	14.41		+FL140			RNAV 1
50	TF	NM555		256.16(255.41)	17.65		-FL230 +FL200			RNAV 1
60	TF	NM508		255.88(255.13)	17.69		@FL230			RNAV 1
70	TF	NM510		259.07(258.32)	13.98		@FL230			RNAV 1
80	TF	DARMI		258.74(257.99)	77.03					RNAV 1

SID EPKOS 3A - RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			270.27(269.52)			+1700		7	RNAV 1
20	DF	BB150				L	+6000			RNAV 1
30	TF	BB151		173.97(173.22)	23.53		@FL110			RNAV 1
40	TF	NM554		173.03(172.28)	14.41		+FL140			RNAV 1
50	TF	BB152		172.28(171.53)	10.50					RNAV 1
60	TF	BB153		149.30(148.55)	32.55		@FL260			RNAV 1
70	TF	MABTA		149.39(148.64)	33.99					RNAV 1
80	TF	EPKOS		109.97(109.22)	46.16					RNAV 1

SID ERVIS 3A - RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			270.27(269.52)			+1700		7	RNAV 1
20	DF	BB150				L	+6000			RNAV 1
30	TF	BB151		173.97(173.22)	23.53		@FL110			RNAV 1
40	TF	NM554		173.03(172.28)	14.41		+FL140			RNAV 1
50	TF	NM555		256.16(255.41)	17.65		-FL230 +FL200			RNAV 1
60	TF	NM508		255.88(255.13)	17.69		@FL230			RNAV 1
70	TF	NM509		219.92(219.17)	24.39		@FL230			RNAV 1
80	TF	ERVIS		166.27(165.52)	43.66					RNAV 1

SID GUNDI 3A - RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			270.27(269.52)			+1700		7	RNAV 1
20	DF	BB150				L	+6000			RNAV 1
30	TF	BB151		173.97(173.22)	23.53		@FL110			RNAV 1
40	TF	NM554		173.03(172.28)	14.41		+FL140			RNAV 1
50	TF	NM555		256.16(255.41)	17.65		-FL230 +FL200			RNAV 1
60	TF	NM508		255.88(255.13)	17.69		@FL230			RNAV 1
70	TF	NM509		219.92(219.17)	24.39		@FL230			RNAV 1
80	TF	GUNDI		219.85(219.10)	33.72					RNAV 1

SID MABTA 3A - RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			270.27(269.52)			+1700		7	RNAV 1
20	DF	BB150				L	+6000			RNAV 1
30	TF	BB151		173.97(173.22)	23.53		@FL110			RNAV 1
40	TF	NM554		173.03(172.28)	14.41		+FL140			RNAV 1
50	TF	BB152		172.28(171.53)	10.50					RNAV 1
60	TF	BB153		149.30(148.55)	32.55		@FL260			RNAV 1
70	TF	MABTA		149.39(148.64)	33.99					RNAV 1

SID PPN3A - RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			270.27(269.52)			+1700		7	RNAV 1
20	DF	BB150				L	+6000			RNAV 1
30	TF	BB155		173.90(173.15)	10.55		-FL120 +FL110			RNAV 1
40	TF	NM557		084.27(083.52)	20.01		+FL150			RNAV 1
50	TF	NM503		082.96(082.21)	7.32		-FL190 +FL170			RNAV 1
60	TF	DOGAP		083.02(082.27)	15.46		+FL210			RNAV 1
70	TF	PPN		116.10(115.35)	31.27		@FL280			RNAV 1

TABULAR DESCRIPTION

SID BETKU 3A - RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			270.27(269.52)			+540		7	RNAV 1
20	DF	BB154	Y							RNAV 1
30	DF	NM560								RNAV 1
40	TF	NM561		359.37(358.62)	12.50		-FL100			RNAV 1
50	TF	NM513		359.37(358.62)	25.04		-FL160			RNAV 1
60	TF	NM517		311.50(310.75)	21.66		@FL240			RNAV 1
70	TF	BETKU		311.37(310.62)	26.38					RNAV 1

SID BISET 3A - RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			270.27(269.52)			+540		7	RNAV 1
20	DF	BB154	Y							RNAV 1
30	TF	NM518		277.25(276.50)	37.37		-FL130			RNAV 1
50	TF	NM519		268.14(267.39)	40.23		@FL220			RNAV 1
60	TF	NM520		251.28(250.53)	40.90		@FL250			RNAV 1
70	TF	BISET		250.35(249.60)	85.87					RNAV 1

SID EXOLU 3A - RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			270.27(269.52)			+540		7	RNAV 1
20	DF	BB154	Y							RNAV 1
30	DF	NM560								RNAV 1
40	TF	NM561		359.37(358.62)	12.50		-FL100			RNAV 1
50	TF	NM513		359.37(358.62)	25.04		-FL160			RNAV 1
60	TF	NM514		285.05(284.30)	17.41					RNAV 1
70	TF	NM515		284.95(284.20)	11.00		-FL220			RNAV 1
80	TF	NM516		284.88(284.13)	7.00		@FL220			RNAV 1
90	TF	EXOLU		284.84(284.09)	28.24					RNAV 1

SID ISRIS 3A - RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			270.27(269.52)			+540		7	RNAV 1
20	DF	BB154	Y							RNAV 1
30	DF	NM560								RNAV 1
40	TF	NM561		359.37(358.62)	12.50		-FL100			RNAV 1
50	TF	NM513		359.37(358.62)	25.04		-FL160			RNAV 1
60	TF	ISRIS		019.12(018.37)	50.64					RNAV 1

SID SAKUN 3A - RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			270.27(269.52)			+540		7	RNAV 1
20	DF	BB154	Y							RNAV 1
30	TF	NM562		296.25(295.50)	18.52		-FL090			RNAV 1
40	TF	SAKUN		288.91(288.16)	75.11					RNAV 1

**STANDARD DEPARTURE CHART
INSTRUMENT (SID)**

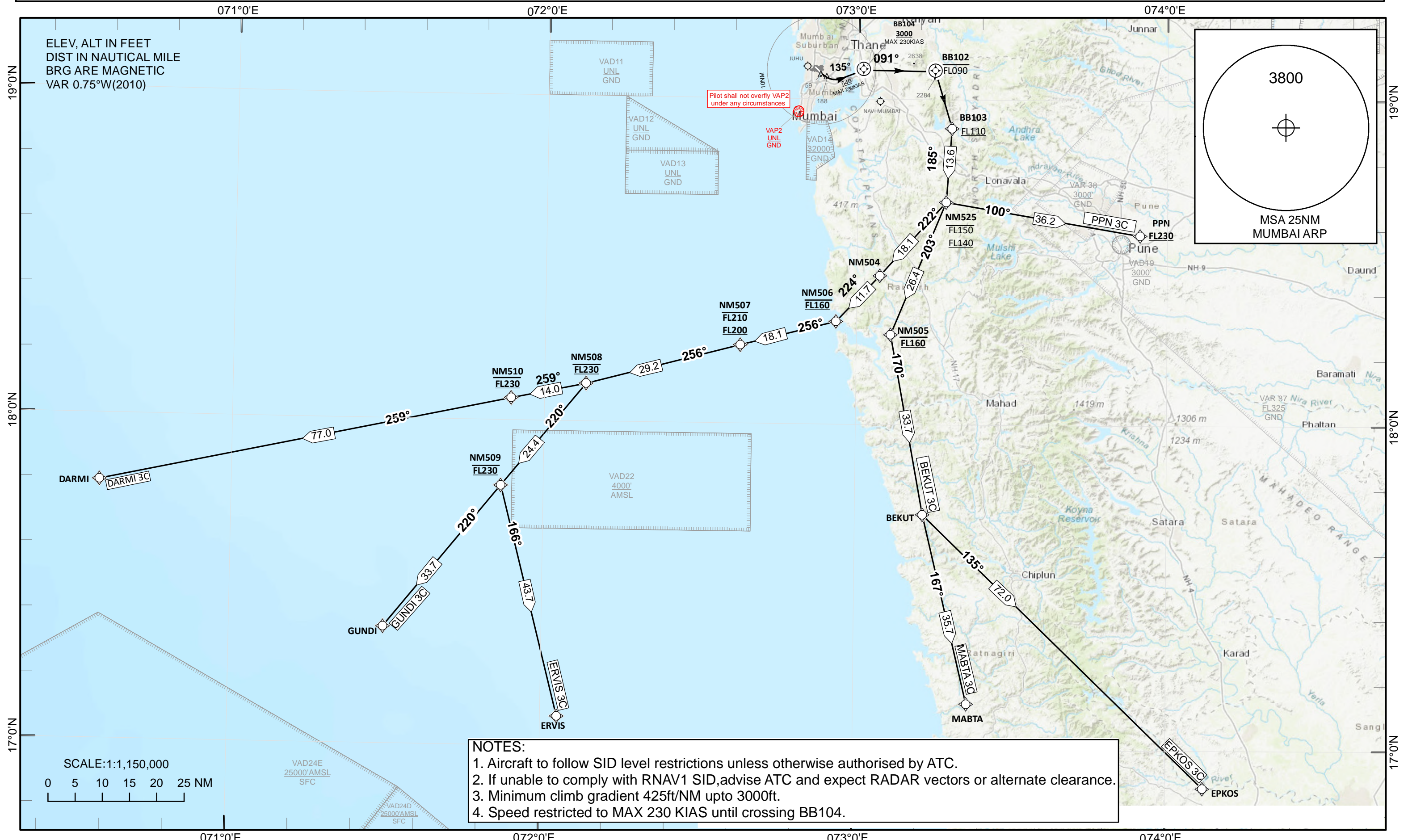
**RNAV1(GNSS)
SURVEILLANCE REQUIRED**

**TRANSITION ALT
6000**

132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

APP 119.300
120.350
127.900
TWR 118.100
122.500

MUMBAI (VABB)
INDIA
BEKUT 3C, DARMI 3C,
EPKOS 3C, ERVIS 3C,
GUNDI 3C, MABTA 3C, PPN 3C
RWY14



**STANDARD DEPARTURE CHART
INSTRUMENT (SID)**

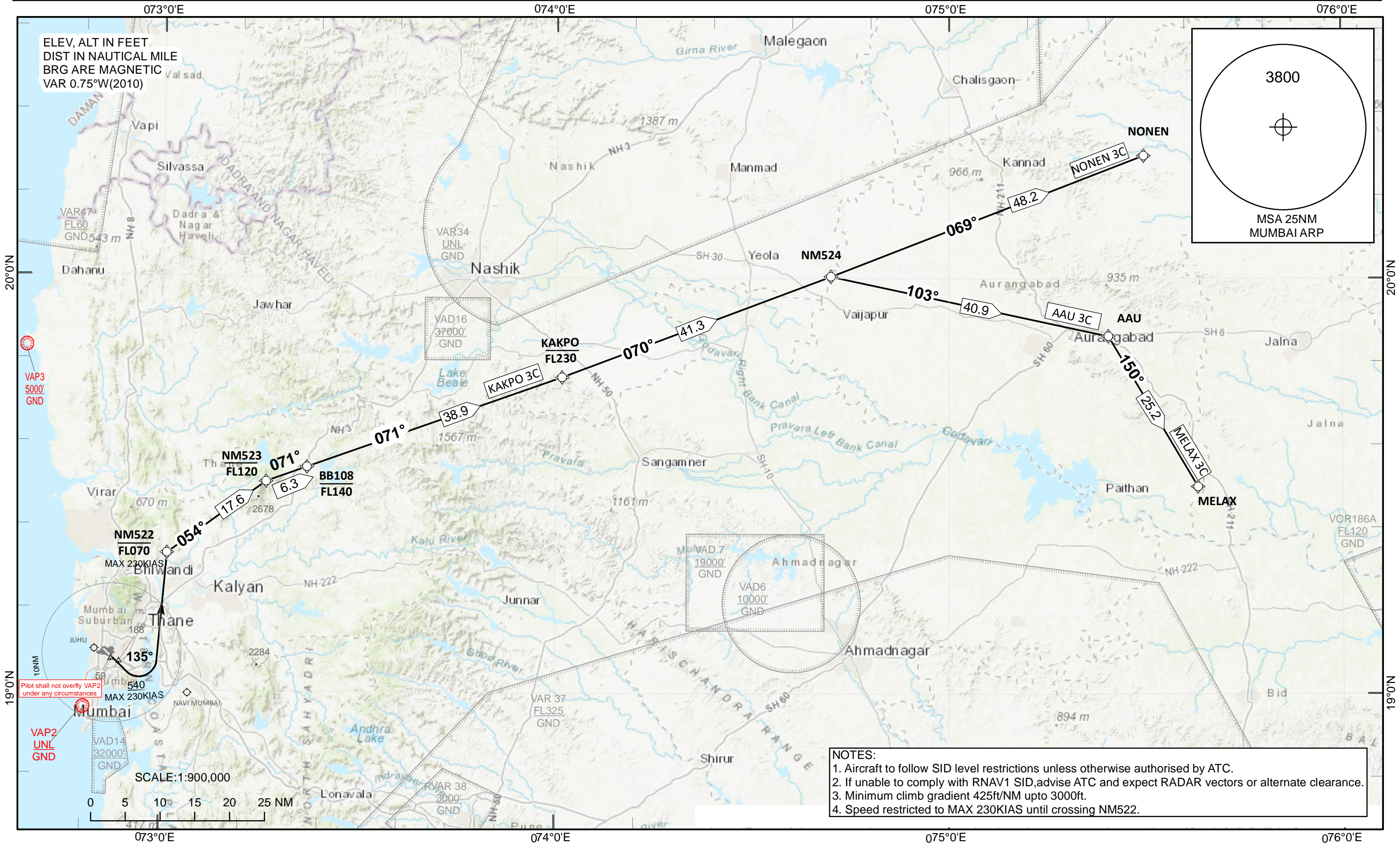
**RNAV1(GNSS)
SURVEILLANCE REQUIRED**

TRANSITION ALT
6000

132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

APP 119.300
120.350
127.900
TWR 118.100
122.500

MUMBAI (VABB)
INDIA
AAU3C, KAKPO3C,
MELAX3C, NONEN3C
RWY14



**STANDARD DEPARTURE CHART
INSTRUMENT (SID)**

**RNAV1(GNSS)
SURVEILLANCE REQUIRED**

TRANSITION ALT
6000

132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

APP 119.300
120.350
127.900
TWR 118.100
122.500

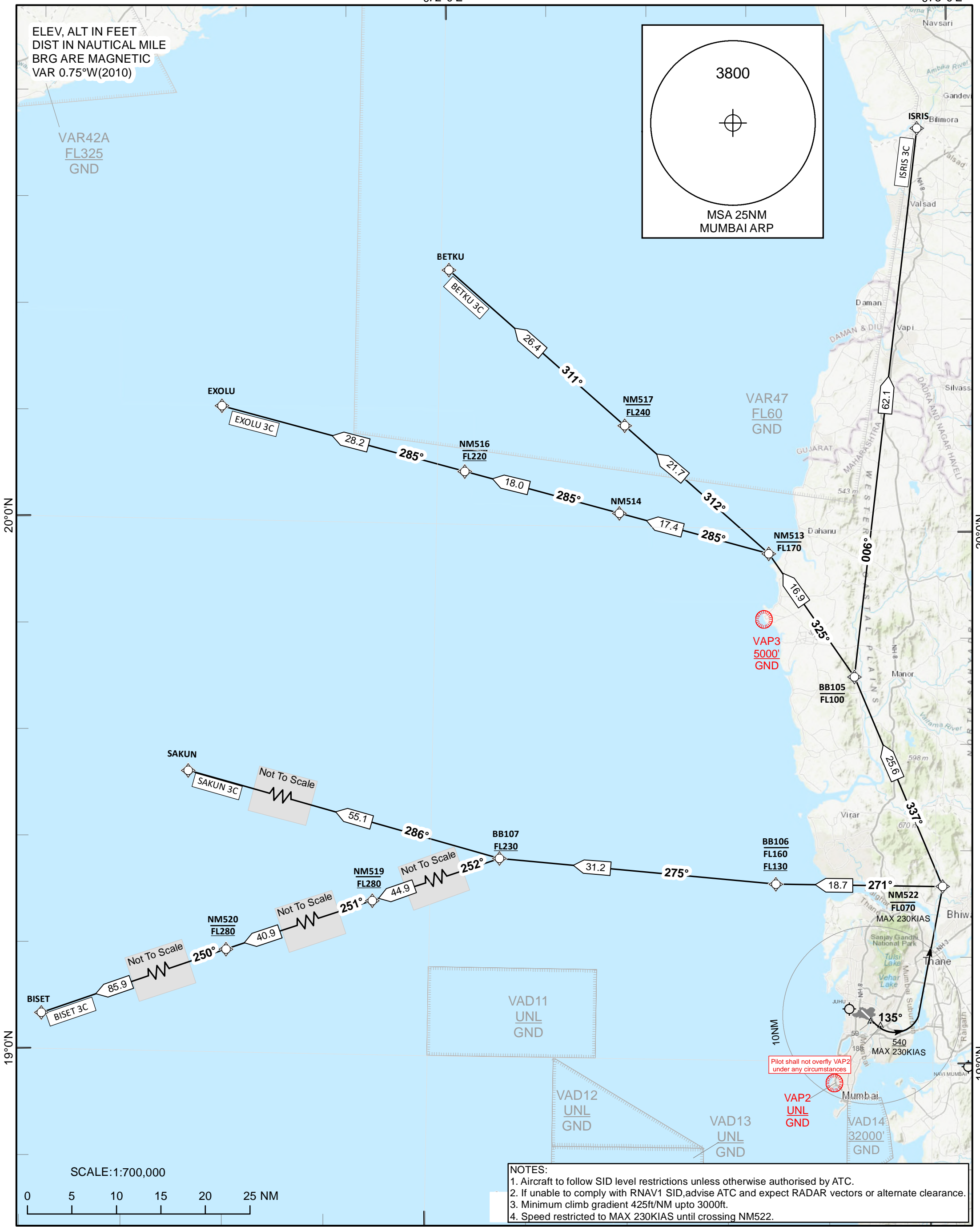
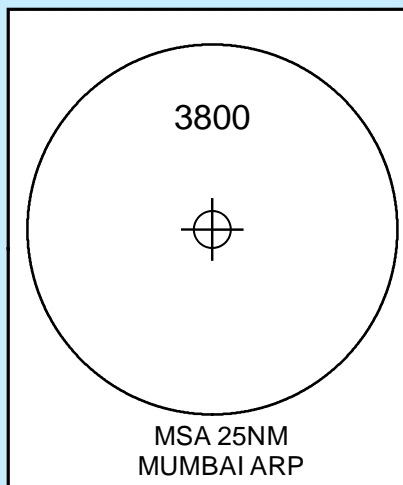
MUMBAI (VABB)
INDIA
BETKU 3C, BISET 3C,
EXOLU 3C, ISRIS 3C, SAKUN 3C
RWY14

072°0'E

073°0'E

ELEV, ALT IN FEET
DIST IN NAUTICAL MILE
BRG ARE MAGNETIC
VAR 0.75°W(2010)

VAR42A
FL325
GND



SCALE:1:700,000

0 5 10 15 20 25 NM

NOTES:

1. Aircraft to follow SID level restrictions unless otherwise authorised by ATC.
2. If unable to comply with RNAV1 SID, advise ATC and expect RADAR vectors or alternate clearance.
3. Minimum climb gradient 425ft/NM upto 3000ft.
4. Speed restricted to MAX 230KIAS until crossing NM522.

TABULAR DESCRIPTION

SID AAU 3C - RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			135.27(134.52)			+540	-230.00	7	RNAV 1
20	DF	NM522				L	-FL070	-230.00		RNAV 1
30	TF	NM523		054.40(053.65)	17.57		-FL120			RNAV 1
40	TF	BB108		070.90(070.15)	6.27		-FL140			RNAV 1
50	TF	KAKPO		071.01(070.26)	38.87		-FL230			RNAV 1
60	TF	NM524		069.93(069.18)	41.28					RNAV 1
70	TF	AAU		102.72(101.97)	40.89					RNAV 1

SID KAKPO 3C - RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			135.27(134.52)			+540	-230.00	7	RNAV 1
20	DF	NM522				L	-FL070	-230.00		RNAV 1
30	TF	NM523		054.40(053.65)	17.57		-FL120			RNAV 1
40	TF	BB108		070.90(070.15)	6.27		-FL140			RNAV 1
50	TF	KAKPO		071.01(070.26)	38.87		-FL230			RNAV 1

SID MELAX 3C - RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			135.27(134.52)			+540	-230.00	7	RNAV 1
20	DF	NM522				L	-FL070	-230.00		RNAV 1
30	TF	NM523		054.40(053.65)	17.57		-FL120			RNAV 1
40	TF	BB108		070.90(070.15)	6.27		-FL140			RNAV 1
50	TF	KAKPO		071.01(070.26)	38.87		-FL230			RNAV 1
60	TF	NM524		069.93(069.18)	41.28					RNAV 1
70	TF	AAU		102.72(101.97)	40.89					RNAV 1
80	TF	MELAX		150.10(149.35)	25.16					RNAV 1

SID NONEN 3C - RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			135.27(134.52)			+540	-230.00	7	RNAV 1
20	DF	NM522				L	-FL070	-230.00		RNAV 1
30	TF	NM523		054.40(053.65)	17.57		-FL120			RNAV 1
40	TF	BB108		070.90(070.15)	6.27		-FL140			RNAV 1
50	TF	KAKPO		071.01(070.26)	38.87		-FL230			RNAV 1
60	TF	NM524		069.93(069.18)	41.28					RNAV 1
70	TF	NONEN		069.41(068.66)	48.22					RNAV 1

TABULAR DESCRIPTION

SID BETKU 3C - RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			135.27(134.52)			+540	-230.00	7	RNAV 1
20	DF	NM522				L	-FL070	-230.00		RNAV 1
30	TF	BB105		337.30(336.55)	25.58		-FL100			RNAV 1
40	TF	NM513		325.25(324.50)	16.87		-FL170			RNAV 1
50	TF	NM517		311.50(310.75)	21.66		@FL240			RNAV 1
60	TF	BETKU		311.37(310.62)	26.38					RNAV 1

SID BISET 3C - RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			135.27(134.52)			+540	-230.00	7	RNAV 1
20	DF	NM522				L	-FL070	-230.00		RNAV 1
30	TF	BB106		271.01(270.26)	18.74		-FL160 +FL130			RNAV 1
40	TF	BB107		275.24(274.49)	31.20		+FL230			RNAV 1
50	TF	NM519		251.57(250.82)	44.92		@FL280			RNAV 1
60	TF	NM520		251.28(250.53)	40.90		@FL280			
70	TF	BISET		250.35(249.60)	85.87					

SID EXOLU 3C - RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			135.27(134.52)			+540	-230.00	7	RNAV 1
20	DF	NM522				L	-FL070	-230.00		RNAV 1
30	TF	BB105		337.30(336.55)	25.58		-FL100			RNAV 1
40	TF	NM513		325.25(324.50)	16.87		-FL170			RNAV 1
50	TF	NM514		285.05(284.30)	17.41					RNAV 1
60	TF	NM516		284.95(284.20)	18.00		@FL220			RNAV 1
70	TF	EXOLU		284.84(284.09)	28.24					RNAV 1

SID ISRIS 3C - RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			135.27(134.52)			+540	-230.00	7	RNAV 1
20	DF	NM522				L	-FL070	-230.00		RNAV 1
30	TF	BB105		337.30(336.55)	25.58		-FL100			RNAV 1
40	TF	ISRIS		006.49(005.74)	62.09					RNAV 1

SID SAKUN 3C - RWY 14											
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification	
10	VA			135.27(134.52)			+540	-230.00	7	RNAV 1	
20	DF	NM522				L	-FL070	-230.00		RNAV 1	
30	TF	BB106		271.01(270.26)	18.74		-FL160 +FL130			RNAV 1	
40	TF	BB107		275.24(274.49)	31.20		+FL230			RNAV 1	
50	TF	SAKUN		285.64(284.89)	55.10					RNAV 1	

TABULAR DESCRIPTION

SID BEKUT 3C - RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			135.27(134.52)			+540	-230.00	7	RNAV 1
20	DF	BB104	Y				+3000	-230.00	7	RNAV 1
30	CF	BB102	Y	091.37(090.62)			-FL090			RNAV 1
40	DF	BB103					+FL110			RNAV 1
50	TF	NM525		184.92(184.17)	13.62		-FL150 +FL140			RNAV 1
60	TF	NM505		203.12(202.37)	26.37		@FL160			RNAV 1
70	TF	BEKUT		170.17(169.42)	33.69					RNAV 1

SID DARMI 3C - RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			135.27(134.52)			+540	-230.00	7	RNAV 1
20	DF	BB104	Y				+3000	-230.00	7	RNAV 1
30	CF	BB102	Y	091.37(090.62)			-FL090			RNAV 1
40	DF	BB103					+FL110			RNAV 1
50	TF	NM525		184.92(184.17)	13.62		-FL150 +FL140			RNAV 1
60	TF	NM504		222.34(221.59)	18.14					RNAV 1
70	TF	NM506		224.20(223.45)	11.69		@FL160			RNAV 1
80	TF	NM507		256.45(255.70)	18.06		-FL210 +FL200			RNAV 1
90	TF	NM508		255.94(255.19)	29.22		@FL230			RNAV 1
100	TF	NM510		259.07(258.32)	13.98		@FL230			RNAV 1
110	TF	DARMI		258.74(257.99)	77.03					RNAV 1

SID EPKOS 3C - RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			135.27(134.52)			+540	-230.00	7	RNAV 1
20	DF	BB104	Y				+3000	-230.00	7	RNAV 1
30	CF	BB102	Y	091.37(090.62)			-FL090			RNAV 1
40	DF	BB103					+FL110			RNAV 1
50	TF	NM525		184.92(184.17)	13.62		-FL150 +FL140			RNAV 1
60	TF	NM505		203.12(202.37)	26.37		@FL160			RNAV 1
70	TF	BEKUT		170.17(169.42)	33.69					RNAV 1
80	TF	EPKOS		134.62(133.87)	72.00					RNAV 1

SID ERVIS 3C - RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			135.27(134.52)			+540	-230.00	7	RNAV 1
20	DF	BB104	Y				+3000	-230.00	7	RNAV 1
30	CF	BB102	Y	091.37(090.62)			-FL090			RNAV 1
40	DF	BB103					+FL110			RNAV 1
50	TF	NM525		184.92(184.17)	13.62		-FL150 +FL140			RNAV 1
60	TF	NM504		222.34(221.59)	18.14					RNAV 1
70	TF	NM506		224.20(223.45)	11.69		@FL160			RNAV 1
80	TF	NM507		256.45(255.70)	18.06		-FL210			RNAV 1

							+FL200			
90	TF	NM508		255.94(255.19)	29.22		@FL230			RNAV 1
100	TF	NM509		219.92(219.17)	24.39		@FL230			RNAV 1
110	TF	ERVIS		166.27(165.52)	43.66					RNAV 1

SID GUNDI 3C - RWY 14

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			135.27(134.52)			+540	-230.00	7	RNAV 1
20	DF	BB104	Y				+3000	-230.00	7	RNAV 1
30	CF	BB102	Y	091.37(090.62)			-FL090			RNAV 1
40	DF	BB103					+FL110			RNAV 1
50	TF	NM525		184.92(184.17)	13.62		-FL150 +FL140			RNAV 1
60	TF	NM504		222.34(221.59)	18.14					RNAV 1
70	TF	NM506		224.20(223.45)	11.69		@FL160			RNAV 1
80	TF	NM507		256.45(255.70)	18.06		-FL210 +FL200			RNAV 1
90	TF	NM508		255.94(255.19)	29.22		@FL230			RNAV 1
100	TF	NM509		219.92(219.17)	24.39		@FL230			RNAV 1
110	TF	GUNDI		219.85(219.10)	33.72					RNAV 1

SID MABTA 3C - RWY 14

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			135.27(134.52)			+540	-230.00	7	RNAV 1
20	DF	BB104	Y				+3000	-230.00	7	RNAV 1
30	CF	BB102	Y	091.37(090.62)			-FL090			RNAV 1
40	DF	BB103					+FL110			RNAV 1
50	TF	NM525		184.92(184.17)	13.62		-FL150 +FL140			RNAV 1
60	TF	NM505		203.12(202.37)	26.37		@FL160			RNAV 1
70	TF	BEKUT		170.17(169.42)	33.69					RNAV 1
80	TF	MABTA		167.29(166.54)	35.71					RNAV 1

SID PPN3C - RWY 14

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			135.27(134.52)			+540	-230.00	7	RNAV 1
20	DF	BB104	Y				+3000	-230.00	7	RNAV 1
30	CF	BB102	Y	091.37(090.62)			-FL090			RNAV 1
40	DF	BB103					+FL110			RNAV 1
50	TF	NM525		184.92(184.17)	13.62		-FL150 +FL140			RNAV 1
60	TF	PPN		100.17(099.42)	36.20		+FL230			RNAV 1

**STANDARD DEPARTURE CHART
INSTRUMENT (SID)**

**RNAV1(GNSS)
SURVEILLANCE REQUIRED**

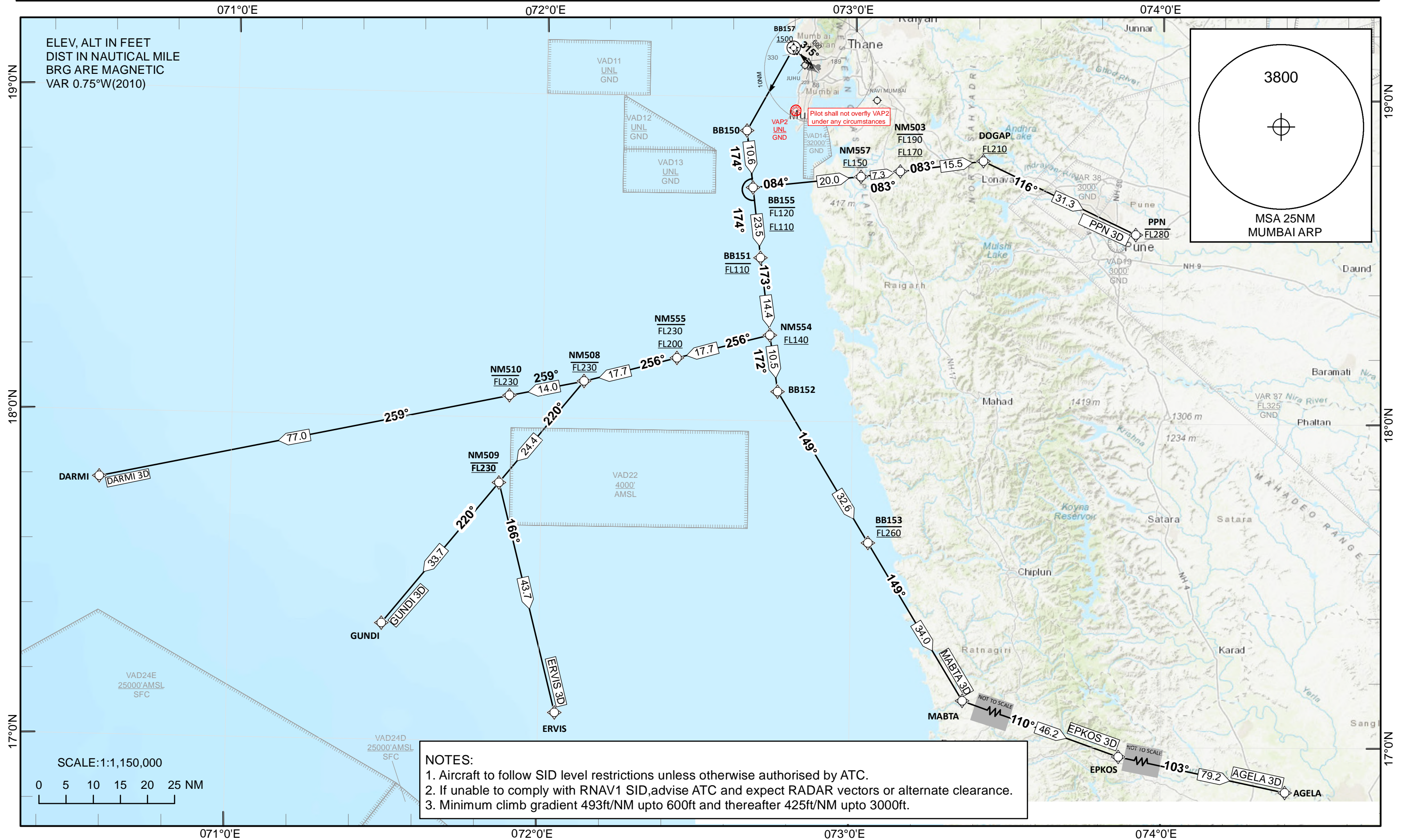
TRANSITION ALT
6000

132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

APP 119.300
120.350
127.900
TWR 118.100
122.500

MUMBAI (VABB)

INDIA
AGELA 3D, DARMI 3D,
EPKOS 3D, ERVIS 3D,
GUNDI 3D, MABTA 3D, PPN 3D
RWY32



**STANDARD DEPARTURE CHART
INSTRUMENT (SID)**

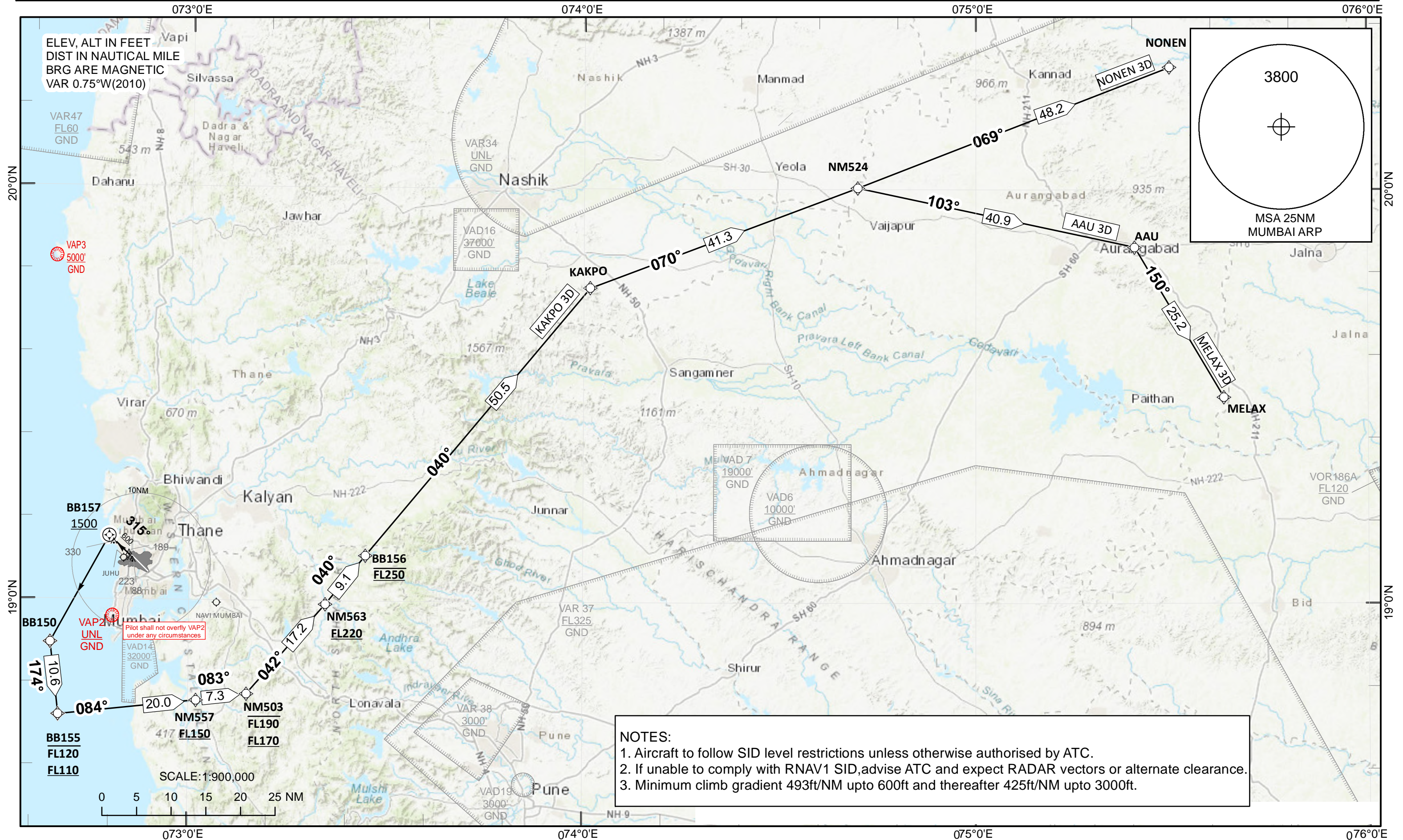
**RNAV1(GNSS)
SURVEILLANCE REQUIRED**

**TRANSITION ALT
6000**

132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

APP 119.300
120.350
127.900
TWR 118.100
122.500

MUMBAI (VABB)
INDIA
AAU 3D, KAKPO 3D,
MELAX 3D, NONEN 3D
RWY32



TABULAR DESCRIPTION

SID AAU 3D - RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			315.27(314.52)			+600		8.1	RNAV 1
20	DF	BB157	Y				+1500		7	RNAV 1
30	DF	BB150								RNAV 1
40	TF	BB155		173.90(173.15)	10.55		-FL120 +FL110			RNAV 1
50	TF	NM557		084.27(083.52)	20.01		+FL150			RNAV 1
60	TF	NM503		082.96(082.21)	7.32		-FL190 +FL170			RNAV 1
70	TF	NM563		041.75(041.00)	17.23		+FL220			RNAV 1
80	TF	BB156		039.84(039.09)	9.12		@FL250			RNAV 1
90	TF	KAKPO		040.34(039.59)	50.46					RNAV 1
100	TF	NM524		069.93(069.18)	41.28					RNAV 1
110	TF	AAU		102.72(101.97)	40.89					RNAV 1

SID KAKPO 3D - RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			315.27(314.52)			+600		8.1	RNAV 1
20	DF	BB157	Y				+1500		7	RNAV 1
30	DF	BB150								RNAV 1
40	TF	BB155		173.90(173.15)	10.55		-FL120 +FL110			RNAV 1
50	TF	NM557		084.27(083.52)	20.01		+FL150			RNAV 1
60	TF	NM503		082.96(082.21)	7.32		-FL190 +FL170			RNAV 1
70	TF	NM563		041.75(041.00)	17.23		+FL220			RNAV 1
80	TF	BB156		039.84(039.09)	9.12		@FL250			RNAV 1
90	TF	KAKPO		040.34(039.59)	50.46					RNAV 1

SID MELAX 3D - RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			315.27(314.52)			+600		8.1	RNAV 1
20	DF	BB157	Y				+1500		7	RNAV 1
30	DF	BB150								RNAV 1
40	TF	BB155		173.90(173.15)	10.55		-FL120 +FL110			RNAV 1
50	TF	NM557		084.27(083.52)	20.01		+FL150			RNAV 1
60	TF	NM503		082.96(082.21)	7.32		-FL190 +FL170			RNAV 1
70	TF	NM563		041.75(041.00)	17.23		+FL220			RNAV 1
80	TF	BB156		039.84(039.09)	9.12		@FL250			RNAV 1
90	TF	KAKPO		040.34(039.59)	50.46					RNAV 1
100	TF	NM524		069.93(069.18)	41.28					RNAV 1
110	TF	AAU		102.72(101.97)	40.89					RNAV 1
120	TF	MELAX		150.10(149.35)	25.16					RNAV 1

SID NONEN 3D - RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			315.27(314.52)			+600		8.1	RNAV 1
20	DF	BB157	Y				+1500		7	RNAV 1
30	DF	BB150								RNAV 1
40	TF	BB155		173.90(173.15)	10.55		-FL120 +FL110			RNAV 1
50	TF	NM557		084.27(083.52)	20.01		+FL150			RNAV 1
60	TF	NM503		082.96(082.21)	7.32		-FL190 +FL170			RNAV 1
70	TF	NM563		041.75(041.00)	17.23		+FL220			RNAV 1
80	TF	BB156		039.84(039.09)	9.12		@FL250			RNAV 1
90	TF	KAKPO		040.34(039.59)	50.46					RNAV 1
100	TF	NM524		069.93(069.18)	41.28					RNAV 1
110	TF	NONEN		069.41(068.66)	48.22					RNAV 1

TABULAR DESCRIPTION

SID BETKU 3D - RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			315.27(314.52)			+600		8.1	RNAV 1
20	DF	BB157	Y				+1500		7	RNAV 1
30	TF	NM560		327.62(326.87)	12.27					RNAV 1
40	TF	NM561		359.37(358.62)	12.50		-FL100			RNAV 1
50	TF	NM513		359.37(358.62)	25.04		-FL160			RNAV 1
60	TF	NM517		311.50(310.75)	21.66		@FL240			RNAV 1
70	TF	BETKU		311.37(310.62)	26.38					RNAV 1

SID BISET 3D - RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			315.27(314.52)			+600		8.1	RNAV 1
20	DF	BB157	Y				+1500		7	RNAV 1
30	TF	NM562		282.33(281.58)	19.70		-FL090			RNAV 1
40	TF	NM518		260.26(259.51)	20.75		-FL130			RNAV 1
50	TF	NM519		268.14(267.39)	40.23		@FL220			RNAV 1
60	TF	NM520		251.28(250.53)	40.90		@FL250			RNAV 1
70	TF	BISET		250.35(249.60)	85.87					RNAV 1

SID EXOLU 3D - RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			315.27(314.52)			+600		8.1	RNAV 1
20	DF	BB157	Y				+1500		7	RNAV 1
30	TF	NM560		327.62(326.87)	12.27					RNAV 1
40	TF	NM561		359.37(358.62)	12.50		-FL100			RNAV 1
50	TF	NM513		359.37(358.62)	25.04		-FL160			RNAV 1
60	TF	NM514		285.05(284.30)	17.41					RNAV 1
70	TF	NM515		284.95(284.20)	11.00		-FL220			RNAV 1
80	TF	NM516		284.88(284.13)	7.00		@FL220			RNAV 1
90	TF	EXOLU		284.84(284.09)	28.24					RNAV 1

SID ISRIS 3D - RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			315.27(314.52)			+600		8.1	RNAV 1
20	DF	BB157	Y				+1500		7	RNAV 1
30	TF	NM560		327.62(326.87)	12.27					RNAV 1
40	TF	NM561		359.37(358.62)	12.50		-FL100			RNAV 1
50	TF	NM513		359.37(358.62)	25.04		-FL160			RNAV 1
60	TF	ISRIS		019.12(018.37)	50.64					RNAV 1

SID SAKUN 3D - RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			315.27(314.52)			+600		8.1	RNAV 1
20	DF	BB157	Y				+1500		7	RNAV 1
30	TF	NM562		282.33(281.58)	19.70		-FL090			RNAV 1
40	TF	SAKUN		288.91(288.16)	75.11					RNAV 1

TABULAR DESCRIPTION

SID AGELA 3D - RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			315.27(314.52)			+600		8.1	RNAV 1
20	DF	BB157	Y				+1500		7	RNAV 1
30	DF	BB150								RNAV 1
40	TF	BB151		173.97(173.22)	23.53		@FL110			RNAV 1
50	TF	NM554		173.03(172.28)	14.41		+FL140			RNAV 1
60	TF	BB152		172.28(171.53)	10.50					RNAV 1
70	TF	BB153		149.30(148.55)	32.55		@FL260			RNAV 1
80	TF	MABTA		149.39(148.64)	33.99					RNAV 1
90	TF	EPKOS		109.97(109.22)	46.16					RNAV 1
100	TF	AGELA		102.70(101.95)	79.24					RNAV 1

SID DARMI 3D - RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			315.27(314.52)			+600		8.1	RNAV 1
20	DF	BB157	Y				+1500		7	RNAV 1
30	DF	BB150								RNAV 1
40	TF	BB151		173.97(173.22)	23.53		@FL110			RNAV 1
50	TF	NM554		173.03(172.28)	14.41		+FL140			RNAV 1
60	TF	NM555		256.16(255.41)	17.65		-FL230 +FL200			RNAV 1
70	TF	NM508		255.88(255.13)	17.69		@FL230			RNAV 1
80	TF	NM510		259.07(258.32)	13.98		@FL230			RNAV 1
90	TF	DARMI		258.74(257.99)	77.03					RNAV 1

SID EPKOS 3D - RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			315.27(314.52)			+600		8.1	RNAV 1
20	DF	BB157	Y				+1500		7	RNAV 1
30	DF	BB150								RNAV 1
40	TF	BB151		173.97(173.22)	23.53		@FL110			RNAV 1
50	TF	NM554		173.03(172.28)	14.41		+FL140			RNAV 1
60	TF	BB152		172.28(171.53)	10.50					RNAV 1
70	TF	BB153		149.30(148.55)	32.55		@FL260			RNAV 1
80	TF	MABTA		149.39(148.64)	33.99					RNAV 1
90	TF	EPKOS		109.97(109.22)	46.16					RNAV 1

SID ERVIS 3D - RWY 32

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			315.27(314.52)			+600		8.1	RNAV 1
20	DF	BB157	Y				+1500		7	RNAV 1
30	DF	BB150								RNAV 1
40	TF	BB151		173.97(173.22)	23.53		@FL110			RNAV 1
50	TF	NM554		173.03(172.28)	14.41		+FL140			RNAV 1
60	TF	NM555		256.16(255.41)	17.65		-FL230 +FL200			RNAV 1
70	TF	NM508		255.88(255.13)	17.69		@FL230			RNAV 1
80	TF	NM509		219.92(219.17)	24.39		@FL230			RNAV 1
90	TF	ERVIS		166.27(165.52)	43.66					RNAV 1

SID GUNDI 3D - RWY 32

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			315.27(314.52)			+600		8.1	RNAV 1
20	DF	BB157	Y				+1500		7	RNAV 1
30	DF	BB150								RNAV 1
40	TF	BB151		173.97(173.22)	23.53		@FL110			RNAV 1
50	TF	NM554		173.03(172.28)	14.41		+FL140			RNAV 1
60	TF	NM555		256.16(255.41)	17.65		-FL230 +FL200			RNAV 1
70	TF	NM508		255.88(255.13)	17.69		@FL230			RNAV 1
80	TF	NM509		219.92(219.17)	24.39		@FL230			RNAV 1
90	TF	GUNDI		219.85(219.10)	33.72					RNAV 1

SID MABTA 3D - RWY 32

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			315.27(314.52)			+600		8.1	RNAV 1
20	DF	BB157	Y				+1500		7	RNAV 1
30	DF	BB150								RNAV 1
40	TF	BB151		173.97(173.22)	23.53		@FL110			RNAV 1
50	TF	NM554		173.03(172.28)	14.41		+FL140			RNAV 1
60	TF	BB152		172.28(171.53)	10.50					RNAV 1
70	TF	BB153		149.30(148.55)	32.55		@FL260			RNAV 1
80	TF	MABTA		149.39(148.64)	33.99					RNAV 1

SID PPN 3D - RWY 32

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	VA			315.27(314.52)			+600		8.1	RNAV 1
20	DF	BB157	Y				+1500		7	RNAV 1
30	DF	BB150								RNAV 1
40	TF	BB155		173.90(173.15)	10.55		-FL120 +FL110			RNAV 1
50	TF	NM557		084.27(83.52)	20.01		+FL150			RNAV 1
60	TF	NM503		082.96(82.21)	7.32		-FL190 +FL170			RNAV 1
70	TF	DOGAP		083.02(82.27)	15.46		+FL210			RNAV 1
80	TF	PPN		116.10(115.35)	31.27		@FL280			RNAV 1

STANDARD ARRIVAL CHART
INSTRUMENT (STAR)

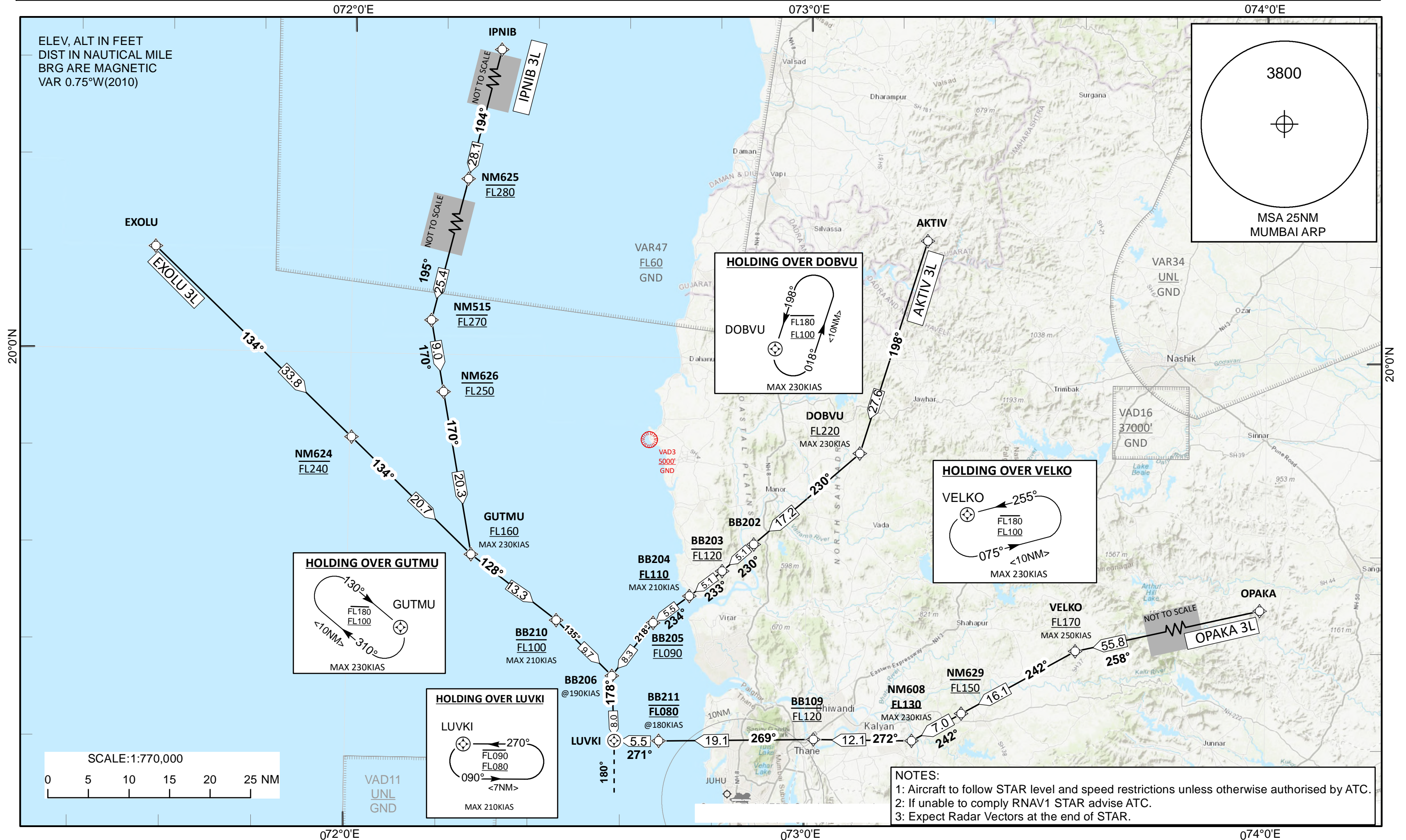
RNAV1(GNSS)
SURVEILLANCE REQUIRED

TRANSITION ALT
6000

132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

APP 119.300
120.350
127.900
TWR 118.100
122.500

MUMBAI(VABB)
INDIA
AKTIV 3L, EXOLU 3L
IPNIB 3L, OPAKA 3L
RWY 09



STANDARD ARRIVAL CHART
INSTRUMENT (STAR)

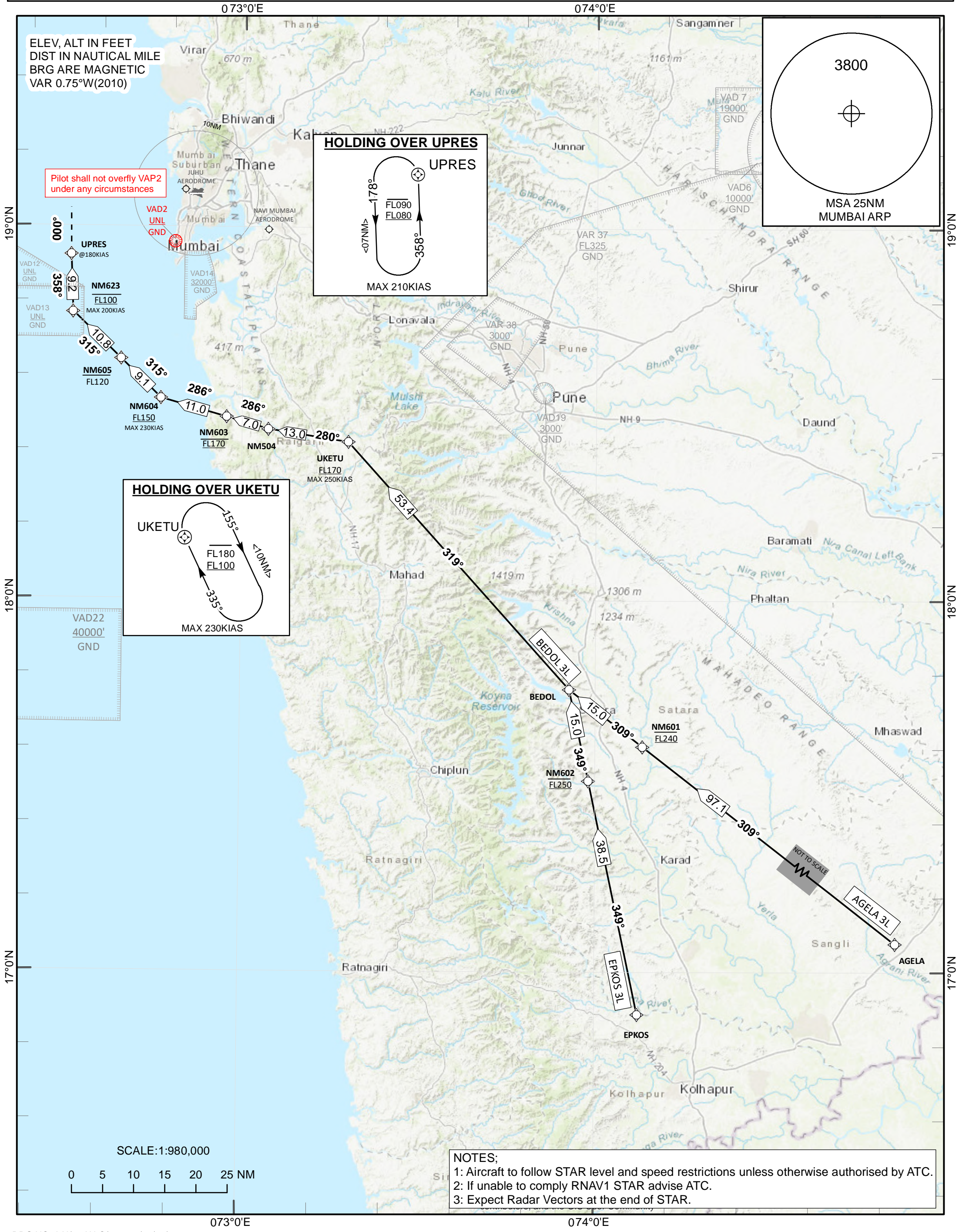
RNAV1(GNSS)
SURVEILLANCE REQUIRED

TRANSITION ALT
6000

132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

APP 119.300
120.350
127.900
TWR 118.100
122.500

MUMBAI (VABB)
INDIA
AGELA 3L, BEDOL 3L,
EPKOS 3L
RWY09



NOTES:
1: Aircraft to follow STAR level and speed restrictions unless otherwise authorised by ATC.
2: If unable to comply RNAV1 STAR advise ATC.
3: Expect Radar Vectors at the end of STAR.

STANDARD ARRIVAL CHART
INSTRUMENT (STAR)

RNAV1(GNSS)
SURVEILLANCE REQUIRED

TRANSITION ALT
6000

132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

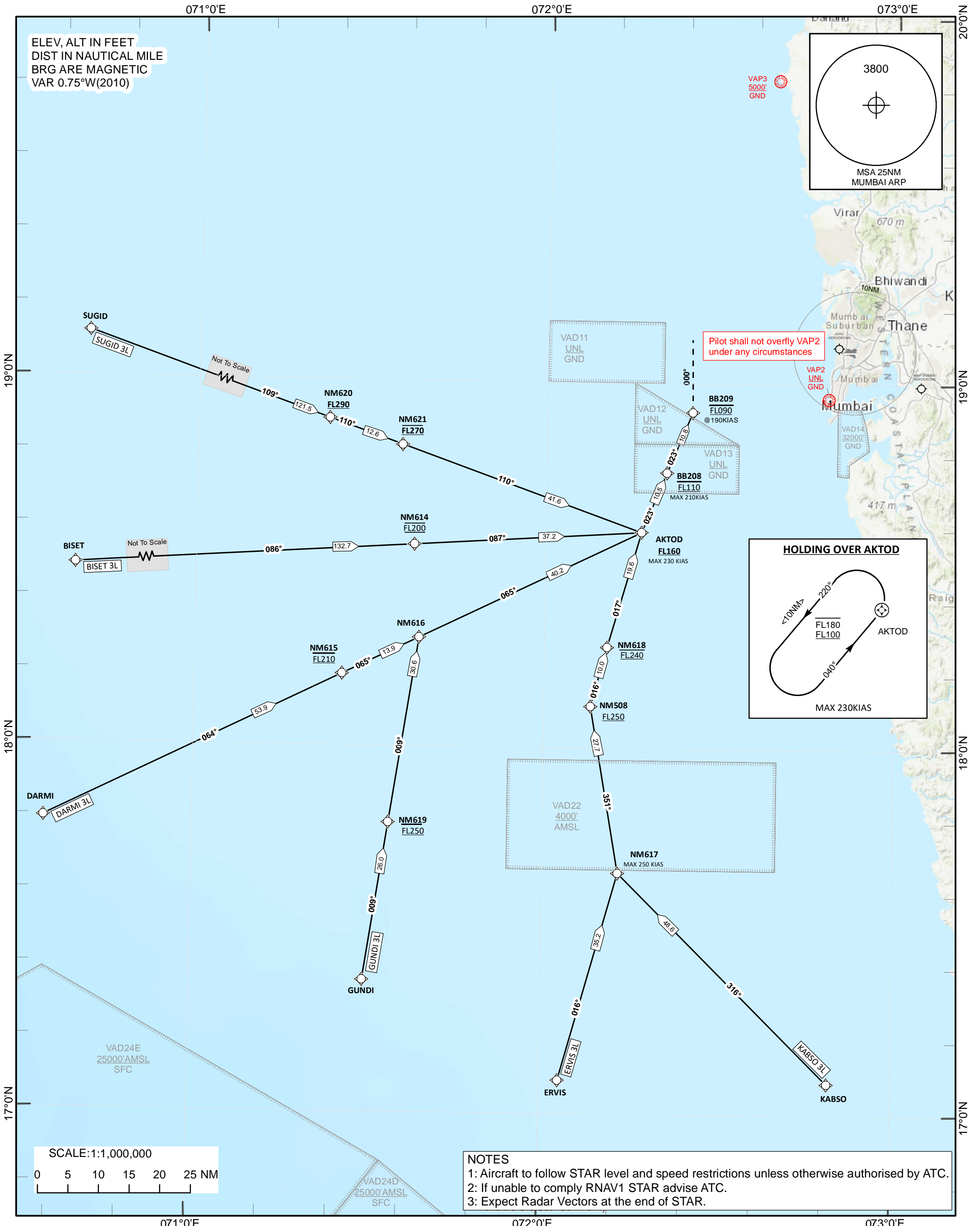
APP 119.300
120.350
127.900
TWR 118.100
122.500

MUMBAI (VABB)

INDIA

BISET 3L, DARMI 3L,
ERVIS 3L, GUNDI 3L,
KABSO 3L, SUGID 3L

RWY09



TABULAR DESCRIPTION

STAR AGELA 3L RWY 09										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	AGELA								RNAV 1
20	TF	NM601		308.93°(308.18°)	97.14		@FL240			RNAV 1
30	TF	BEDOL		308.54°(307.79°)	15.00		@FL240			RNAV 1
40	TF	UKETU		318.77°(318.02°)	53.40		+FL170	-250.00		RNAV 1
50	TF	NM504		279.63°(278.88°)	13.02					RNAV 1
60	TF	NM603		286.42°(285.67°)	7.00		@FL170			RNAV 1
70	TF	NM604		286.38°(285.63°)	10.99		+FL150	-230.00		RNAV 1
80	TF	NM605		314.77°(314.02°)	9.07		-FL120			RNAV 1
90	TF	NM623		314.73°(313.98°)	10.81		@FL100	-200.00		RNAV 1
100	TF	UPRES		358.16°(357.41°)	9.19			@180.00		RNAV 1
110	VM			000.00° (359.25°)						RNAV 1
10	HM	UKETU	Y	335.00°(334.25°)	10.00	R	-FL180 +FL100	-230.00		RNAV1
10	HM	UPRES	Y	358.00°(357.25°)	7.00	L	-FL090 +FL080	-210.00		RNAV1

STAR BEDOL 3L RWY 09										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	BEDOL								RNAV 1
20	TF	UKETU		318.77°(318.02°)	53.40		+FL170	-250.00		RNAV 1
30	TF	NM504		279.63°(278.88°)	13.02					RNAV 1
40	TF	NM603		286.42°(285.67°)	7.00		@FL170			RNAV 1
50	TF	NM604		286.38°(285.63°)	10.99		+FL150	-230.00		RNAV 1
60	TF	NM605		314.77°(314.02°)	9.07		-FL120			RNAV 1
70	TF	NM623		314.73°(313.98°)	10.81		@FL100	-200.00		RNAV 1
80	TF	UPRES		358.16°(357.41°)	9.19			@180.00		RNAV 1
90	VM			000.00° (359.25°)						RNAV 1
10	HM	UKETU	Y	335.00°(334.25°)	10.00	R	-FL180 +FL100	-230.00		RNAV1
10	HM	UPRES	Y	358.00°(357.25°)	7.00	L	-FL090 +FL080	-210.00		RNAV1

STAR EPKOS 3L RWY 09										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	EPKOS								RNAV 1
20	TF	NM602		348.77°(348.02°)	38.48		@FL250			RNAV 1
30	TF	BEDOL		348.73°(347.98°)	15.00		@FL250			RNAV 1
40	TF	UKETU		318.77°(318.02°)	53.40		+FL170	-250.00		RNAV 1
50	TF	NM504		279.63°(278.88°)	13.02					RNAV 1
60	TF	NM603		286.42°(285.67°)	7.00		@FL170			RNAV 1
70	TF	NM604		286.38°(285.63°)	10.99		+FL150	-230.00		RNAV 1
80	TF	NM605		314.77°(314.02°)	9.07		-FL120			RNAV 1
90	TF	NM623		314.73°(313.98°)	10.81		@FL100	-200.00		RNAV 1
100	TF	UPRES		358.16°(357.41°)	9.19			@180.00		RNAV 1
110	VM			000.00° (359.25°)						RNAV 1
10	HM	UKETU	Y	335.00°(334.25°)	10.00	R	-FL180 +FL100	-230.00		RNAV1
10	HM	UPRES	Y	358.00°(357.25°)	7.00	L	-FL090 +FL080	-210.00		RNAV1

TABULAR DESCRIPTION

STAR AKTIV 3L RWY 09										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	AKTIV								RNAV 1
20	TF	DOBVU		197.88° (197.13°)	27.60		+FL220	-230.00		RNAV 1
30	TF	BB202		229.66° (228.91°)	17.24					RNAV 1
40	TF	BB203		229.77° (229.02°)	5.10		@FL120			RNAV 1
50	TF	BB204		232.64° (231.89°)	5.10		+FL110	-210.00		RNAV 1
60	TF	BB205		233.71° (232.96°)	5.54		@FL090			RNAV 1
70	TF	BB206		217.91° (217.16°)	8.30			@190.00		RNAV 1
80	TF	LUVKI	Y	177.95° (177.20°)	8.01					RNAV 1
90	VM			180.00° (179.25°)						RNAV 1
10	HM	DOBVU	Y	198.00°(197.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV 1
10	HM	LUVKI	Y	270.00°(269.25°)	7.00	L	-FL090 +FL080	-210.00		RNAV1

STAR EXOLU 3L RWY 09										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	EXOLU								RNAV 1
20	TF	NM624		133.98° (133.23°)	33.76		@FL240			RNAV 1
30	TF	GUTMU		134.23° (133.48°)	20.67		+FL160	-230.00		RNAV 1
40	TF	BB210		127.52° (126.77°)	13.31		@FL100	-210.00		RNAV 1
50	TF	BB206		134.84° (134.09°)	9.70			@190.00		RNAV 1
60	TF	LUVKI	Y	177.95° (177.20°)	8.01					RNAV 1
70	VM			180.00° (179.25°)						RNAV 1
10	HM	GUTMU	Y	130.00°(129.25°)	10.00	R	-FL180 +FL100	-230.00		RNAV1
10	HM	LUVKI	Y	270.00°(269.25°)	7.00	L	-FL090 +FL080	-210.00		RNAV1

STAR IPNIB 3L RWY 09										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	IPNIB								RNAV 1
20	TF	NM625		194.37° (193.62°)	28.12		@FL280			RNAV 1
30	TF	NM515		194.59° (193.84°)	25.42		@FL270			RNAV 1
40	TF	NM626		170.28° (169.53°)	9.00		@FL250			RNAV 1
50	TF	GUTMU		170.29° (169.54°)	20.34		+FL160	-230.00		RNAV 1
60	TF	BB210		127.52° (126.77°)	13.31		@FL100	-210.00		RNAV 1
70	TF	BB206		134.84° (134.09°)	9.70			@190.00		RNAV 1
80	TF	LUVKI	Y	177.95° (177.20°)	8.01					RNAV 1
90	VM			180.00° (179.25°)						RNAV 1
10	HM	GUTMU	Y	130.00°(129.25°)	10.00	R	-FL180 +FL100	-230.00		RNAV1
10	HM	LUVKI	Y	270.00°(269.25°)	7.00	L	-FL090 +FL080	-210.00		RNAV1

STAR OPAKA 3L RWY 09

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	OPAKA								RNAV 1
20	TF	VELKO		258.34° (257.59°)	55.83		+FL170	-250.00		RNAV 1
30	TF	NM629		241.59° (240.84°)	16.05		@FL150			RNAV 1
40	TF	NM608		241.51° (240.76°)	7.00		+FL130	-230.00		RNAV 1
50	TF	BB109		271.79° (271.04°)	12.13		@FL120			RNAV 1
60	TF	BB211		269.49° (268.74°)	19.09		@FL080	@180.00		RNAV 1
70	TF	LUVKI	Y	270.78° (270.03°)	5.50					RNAV 1
80	VM			180.00° (179.25°)						RNAV 1
10	HM	LUVKI	Y	270.00°(269.25°)	7.00	L	-FL090 +FL080	-210.00		RNAV1
10	HM	VELKO	Y	255.00°(254.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

TABULAR DESCRIPTION

STAR BISET 3L RWY 09										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	BISET								RNAV 1
20	TF	NM614		086.19° (085.44°)	132.73		@FL200			RNAV 1
30	TF	AKTOD		086.92° (086.17°)	37.15		+FL160	-230.00		RNAV 1
40	TF	BB208		023.07° (022.32°)	10.50		@FL110	-210.00		RNAV 1
50	TF	BB209		023.09° (022.34°)	10.80		@FL090	@190.00		RNAV 1
60	VM			000.00° (359.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STAR DARMI 3L RWY 09										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	DARMI								RNAV 1
20	TF	NM615		064.24° (063.49°)	53.89		@FL210			RNAV 1
30	TF	NM616		064.81° (064.06°)	13.91		@FL210			RNAV 1
40	TF	AKTOD		064.63° (063.88°)	40.16		+FL160	-230.00		RNAV 1
50	TF	BB208		023.07° (022.32°)	10.50		@FL110	-210.00		RNAV 1
60	TF	BB209		023.09° (022.34°)	10.80		@FL090	@190.00		RNAV 1
70	VM			000.00° (359.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STAR ERVIS 3L RWY 09										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	ERVIS								RNAV 1
20	TF	NM617		016.15° (015.40°)	35.23		@FL280	-250.00		RNAV 1
30	TF	NM508		350.74° (349.99°)	27.66		+FL250			RNAV 1
40	TF	NM618		015.90° (015.15°)	10.00		@FL240			RNAV 1
50	TF	AKTOD		016.70° (015.95°)	19.61		+FL160	-230.00		RNAV 1
60	TF	BB208		023.07° (022.32°)	10.50		@FL110	-210.00		RNAV 1
70	TF	BB209		023.09° (022.34°)	10.80		@FL090	@190.00		RNAV 1
80	VM			000.00° (359.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STAR GUNDI 3L RWY 09										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	GUNDI								RNAV 1
20	TF	NM619		009.29° (008.54°)	26.02		@FL250			RNAV 1
30	TF	NM616		009.31° (008.56°)	30.62		@FL250			RNAV 1
40	TF	AKTOD		064.63° (063.88°)	40.16		+FL160	-230.00		RNAV 1
50	TF	BB208		023.07° (022.32°)	10.50		@FL110	-210.00		RNAV 1
60	TF	BB209		023.09° (022.34°)	10.80		@FL090	@190.00		RNAV 1
70	VM			000.00° (359.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STAR KABSO 3L RWY 09

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	KABSO								RNAV 1
20	TF	NM617		315.52° (314.77°)	48.60		@FL290	-250.00		RNAV 1
30	TF	NM508		350.74° (349.99°)	27.66		+FL250			RNAV 1
40	TF	NM618		015.90° (015.15°)	10.00		@FL240			RNAV 1
50	TF	AKTOD		016.70° (015.95°)	19.61		+FL160	-230.00		RNAV 1
60	TF	BB208		023.07° (022.32°)	10.50		@FL110	-210.00		RNAV 1
70	TF	BB209		023.09° (022.34°)	10.80		@FL090	@190.00		RNAV 1
80	VM			000.00° (359.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STAR SUGID 3L RWY 09

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	SUGID								RNAV 1
20	TF	NM620		109.30° (108.55°)	121.51		+FL290			RNAV 1
30	TF	NM621		109.97° (109.22°)	12.63		@FL270			RNAV 1
40	TF	AKTOD		110.03° (109.28°)	41.61		+FL160	-230.00		RNAV 1
50	TF	BB208		023.07° (022.32°)	10.50		@FL110	-210.00		RNAV 1
60	TF	BB209		023.09° (022.34°)	10.80		@FL090	@190.00		RNAV 1
70	VM			000.00° (359.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STANDARD ARRIVAL CHART
INSTRUMENT (STAR)

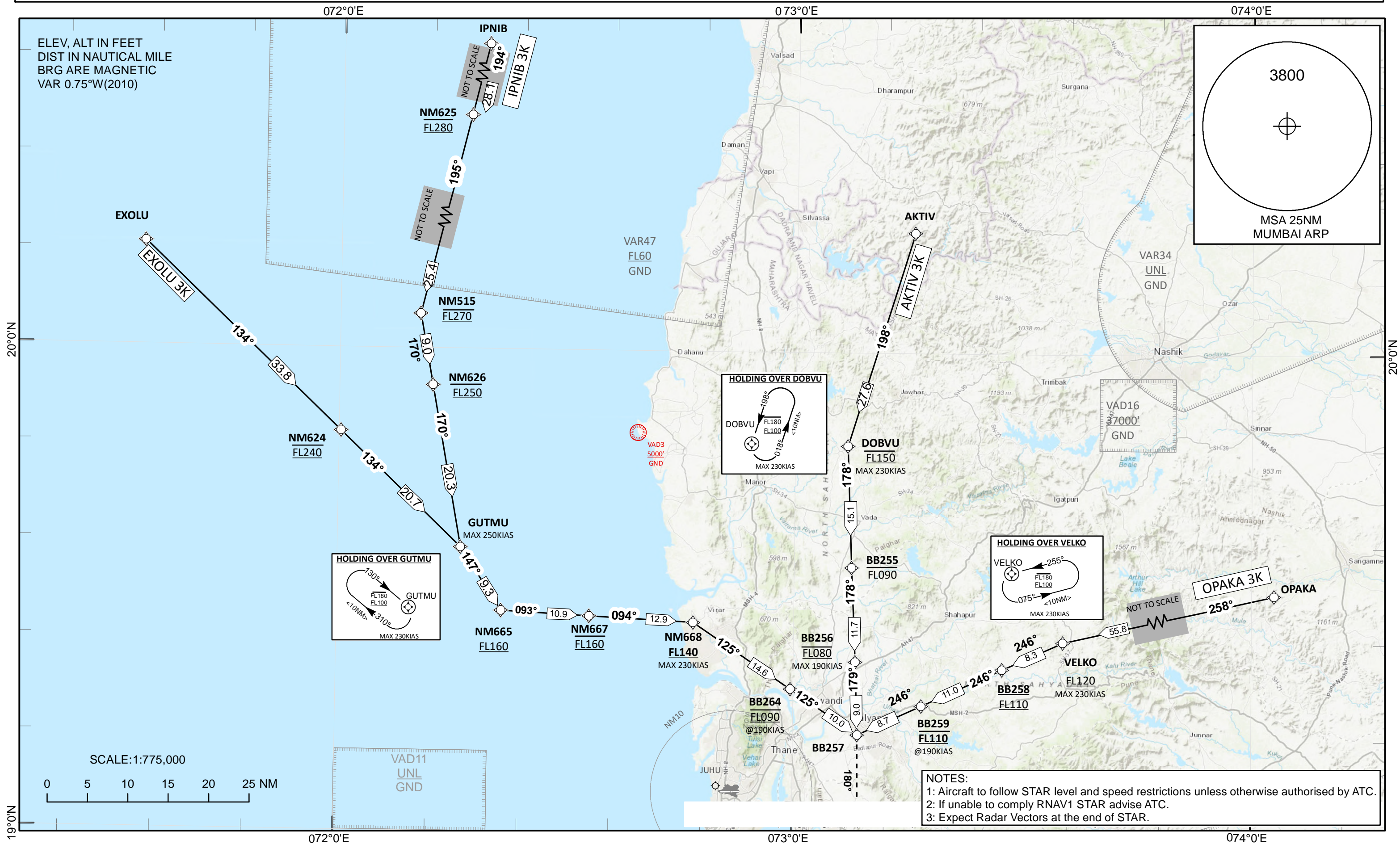
RNAV1(GNSS)
SURVEILLANCE REQUIRED

TRANSITION ALT
6000

132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

APP 119.300
120.350
127.900
TWR 118.100
122.500

MUMBAI(VABB)
INDIA
AKTIV 3K, EXOLU 3K
IPNIB 3K, OPAKA 3K
RWY 27



STANDARD ARRIVAL CHART
INSTRUMENT (STAR)

RNAV1(GNSS)
SURVEILLANCE REQUIRED

TRANSITION ALT
6000

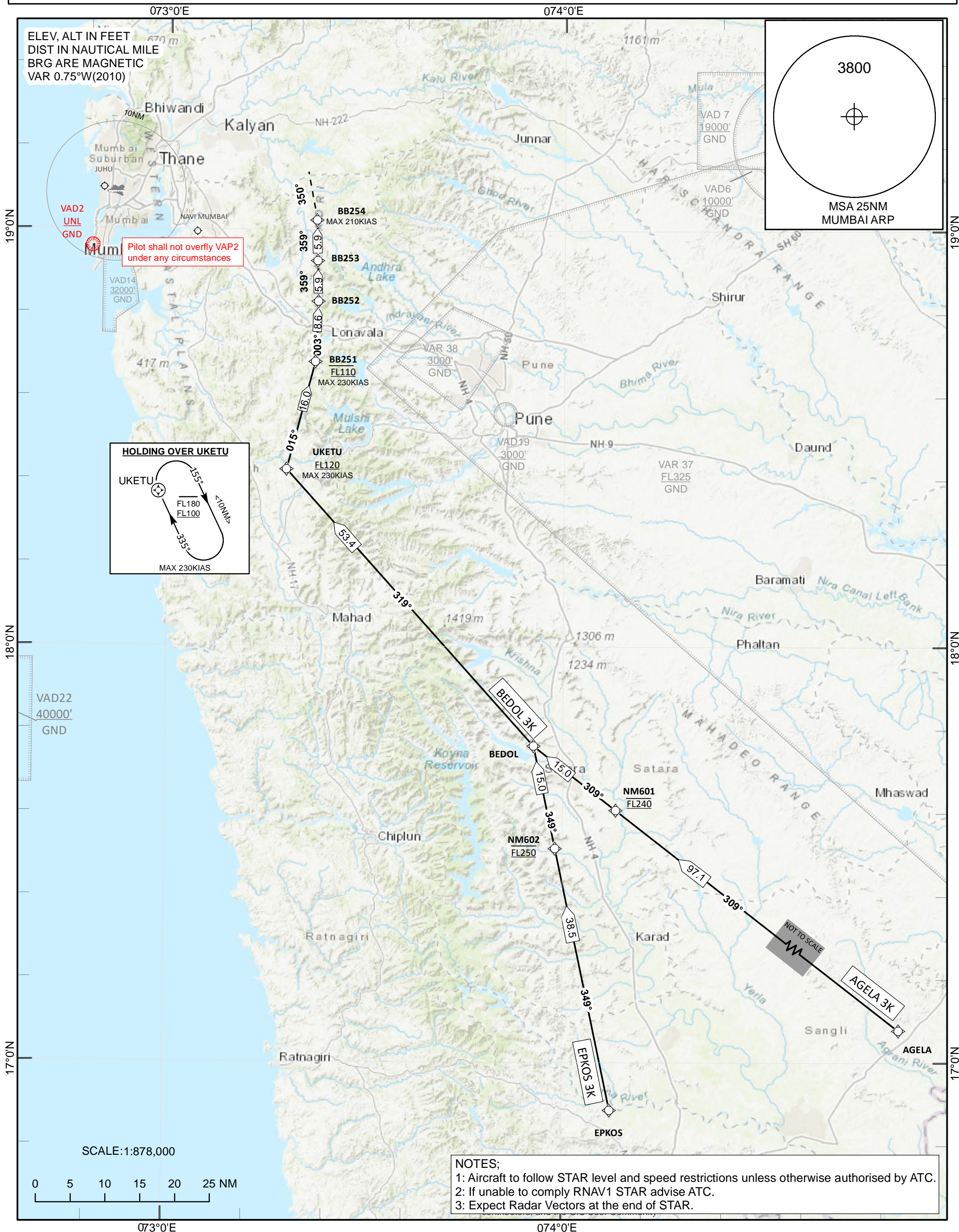
132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

APP 119.300
120.350
127.900
TWR 118.100
122.500

MUMBAI (VABB)

INDIA

AGELA 3K, BEDOL 3K,
EPKOS 3K
RWY27



NOTES;
1: Aircraft to follow STAR level and speed restrictions unless otherwise authorised by ATC.
2: If unable to comply RNAV1 STAR advise ATC.
3: Expect Radar Vectors at the end of STAR.

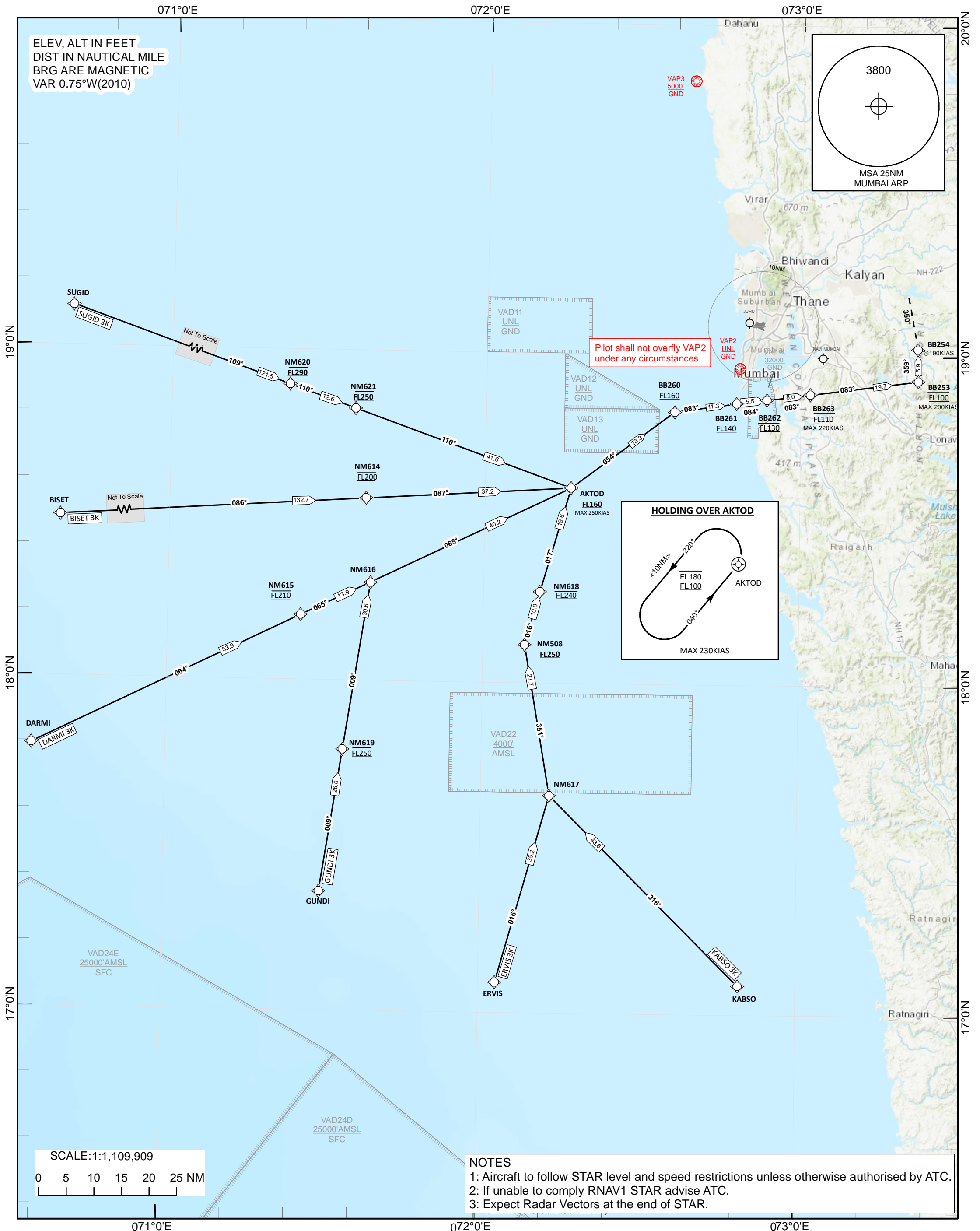
STANDARD ARRIVAL CHART
INSTRUMENT (STAR)
RNAV1(GNSS)
SURVEILLANCE REQUIRED

TRANSITION ALT
6000

132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

APP 119.300
120.350
127.900
TWR 118.100
122.500

MUMBAI (VABB)
INDIA
BISET 3K, DARMI 3K,
ERVIS 3K, GUNDI 3K,
KABSO 3K, SUGID 3K
RWY27



TABULAR DESCRIPTION

STAR EPKOS 3K RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	EPKOS								RNAV 1
20	TF	NM602		348.77°(348.02°)	38.48		@FL250			RNAV 1
30	TF	BEDOL		348.73°(347.98°)	15.00		@FL250			RNAV 1
40	TF	UKETU		318.77°(318.02°)	53.40		+FL120	-230.00		RNAV 1
50	TF	BB251		015.31°(014.56°)	16.02		@FL110	-230.00		RNAV 1
60	TF	BB252		003.07°(002.32°)	8.64					RNAV 1
70	TF	BB253		359.49°(358.74°)	5.85					RNAV 1
80	TF	BB254		359.49°(358.74°)	5.85			-210.00		RNAV 1
90	VM			350.00°(349.25°)						RNAV 1
10	HM	UKETU	Y	335.00°(334.25°)	10.00	R	-FL180 +FL100	-230.00		RNAV1

STAR BEDOL 3K RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	BEDOL								RNAV 1
20	TF	UKETU		318.77°(318.02°)	53.40		+FL120	-230.00		RNAV 1
30	TF	BB251		015.31°(014.56°)	16.02		@FL110	-230.00		RNAV 1
40	TF	BB252		003.07°(002.32°)	8.64					RNAV 1
50	TF	BB253		359.49°(358.74°)	5.85					RNAV 1
60	TF	BB254		359.49°(358.74°)	5.85			-210.00		RNAV 1
70	VM			350.00°(349.25°)						RNAV 1
10	HM	UKETU	Y	335.00°(334.25°)	10.00	R	-FL180 +FL100	-230.00		RNAV1

STAR AGELA 3K RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	AGELA								RNAV 1
20	TF	NM601		308.93°(308.18°)	97.14		@FL240			RNAV 1
30	TF	BEDOL		308.54°(307.79°)	15.00		@FL240			RNAV 1
40	TF	UKETU		318.77°(318.02°)	53.40		+FL120	-230.00		RNAV 1
50	TF	BB251		015.31°(014.56°)	16.02		@FL110	-230.00		RNAV 1
60	TF	BB252		003.07°(002.32°)	8.64					RNAV 1
70	TF	BB253		359.49°(358.74°)	5.85					RNAV 1
80	TF	BB254		359.49°(358.74°)	5.85			-210.00		RNAV 1
90	VM			350.00°(349.25°)						RNAV 1
10	HM	UKETU	Y	335.00°(334.25°)	10.00	R	-FL180 +FL100	-230.00		RNAV1

TABULAR DESCRIPTION

STAR AKTIV 3K RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	AKTIV								RNAV 1
20	TF	DOBVU		197.88°(197.13°)	27.60		@FL150	-230.00		RNAV 1
30	TF	BB255		178.44°(177.69°)	15.06		-FL090			RNAV 1
40	TF	BB256		178.13°(177.38°)	11.68		@FL080	-190.00		RNAV 1
50	TF	BB257		178.70°(177.95°)	9.02					RNAV 1
60	VM			180.00°(179.25°)						RNAV 1
10	HM	DOBVU	Y	198.00°(197.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV 1

STAR EXOLU 3K RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	EXOLU								RNAV 1
20	TF	NM624		133.98°(133.23°)	33.76		@FL240			RNAV 1
30	TF	GUTMU		134.23°(133.48°)	20.67			-250.00		RNAV 1
40	TF	NM665		147.36°(146.61°)	9.33		+FL160			RNAV 1
50	TF	NM667		093.49°(092.74°)	10.93		@FL160			RNAV 1
60	TF	NM668		093.53°(092.78°)	12.91		+FL140	-230.00		RNAV 1
70	TF	BB264		124.54°(123.79°)	14.64		@FL090	@190.00		RNAV 1
80	TF	BB257		124.59°(123.84°)	10.00					RNAV 1
90	VM			180.00°(179.25°)						RNAV 1
10	HM	GUTMU	Y	130.00°(129.25°)	10.00	R	-FL180 +FL100	-230.00		RNAV1

STAR IPNIB 3K RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	IPNIB								RNAV 1
20	TF	NM625		194.37°(193.62°)	28.12		@FL280			RNAV 1
30	TF	NM515		194.59°(193.84°)	25.42		@FL270			RNAV 1
40	TF	NM626		170.28°(169.53°)	9.00		@FL250			RNAV 1
50	TF	GUTMU		170.29°(169.54°)	20.34			-250.00		RNAV 1
60	TF	NM665		147.36°(146.61°)	9.33		+FL160			RNAV 1
70	TF	NM667		093.49°(092.74°)	10.93		@FL160			RNAV 1
80	TF	NM668		093.53°(092.78°)	12.91		+FL140	-230.00		RNAV 1
90	TF	BB264		124.54°(123.79°)	14.64		@FL090	@190.00		RNAV 1
100	TF	BB257		124.59°(123.84°)	10.00					RNAV 1
110	VM			180.00°(179.25°)						RNAV 1
10	HM	GUTMU	Y	130.00°(129.25°)	10.00	R	-FL180 +FL100	-230.00		RNAV1

STAR OPAKA 3K RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	OPAKA								RNAV 1
20	TF	VELKO		258.34°(257.59°)	55.83		+FL120	-230.00		RNAV 1
30	TF	BB258		246.34°(245.59°)	8.25		@FL110			RNAV 1
40	TF	BB259		246.30°(245.55°)	11.00		@FL110	@190.00		RNAV 1
50	TF	BB257		246.24°(245.49°)	8.67		@FL100			RNAV 1
60	VM			180.00°(179.25°)						RNAV 1
10	HM	VELKO	Y	255.00°(254.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

TABULAR DESCRIPTION

STAR BISET 3K RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	BISET								RNAV 1
20	TF	NM614		086.19°(085.44°)	132.73		@FL200			RNAV 1
30	TF	AKTOD		086.92°(086.17°)	37.15		+FL160	-250.00		RNAV 1
40	TF	BB260		053.69°(052.94°)	23.29		+FL160			RNAV 1
50	TF	BB261		082.55°(081.80°)	11.29		+FL140			RNAV 1
60	TF	BB262		083.80°(083.05°)	5.48		@FL130			RNAV 1
70	TF	BB263		083.04°(082.29°)	7.97		-FL110	-220.00		RNAV 1
80	TF	BB253		083.16°(082.41°)	19.73		@FL100	-200.00		RNAV 1
90	TF	BB254		359.49°(358.74°)	5.85			@190.00		RNAV 1
100	VM			350.00°(349.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STAR DARMI 3K RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	DARMI								RNAV 1
20	TF	NM615		064.24°(063.49°)	53.89		@FL210			RNAV 1
30	TF	NM616		064.81°(064.06°)	13.91		@FL210			RNAV 1
40	TF	AKTOD		064.63°(063.88°)	40.16		+FL160	-250.00		RNAV 1
50	TF	BB260		053.69°(052.94°)	23.29		+FL160			RNAV 1
60	TF	BB261		082.55°(081.80°)	11.29		+FL140			RNAV 1
70	TF	BB262		083.80°(083.05°)	5.48		@FL130			RNAV 1
80	TF	BB263		083.04°(082.29°)	7.97		-FL110	-220.00		RNAV 1
90	TF	BB253		083.16°(082.41°)	19.73		@FL100	-200.00		RNAV 1
100	TF	BB254		359.49°(358.74°)	5.85			@190.00		RNAV 1
110	VM			350.00°(349.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STAR ERVIS 3K RWY 27										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	ERVIS								RNAV 1
20	TF	NM617		016.15°(015.40°)	35.23		@FL280			RNAV 1
30	TF	NM508		350.74°(349.99°)	27.66		+FL250			RNAV 1
40	TF	NM618		015.90°(015.15°)	10.00		@FL240			RNAV 1
50	TF	AKTOD		016.70°(015.95°)	19.61		+FL160	-250.00		RNAV 1
60	TF	BB260		053.69°(052.94°)	23.29		+FL160			RNAV 1
70	TF	BB261		082.55°(081.80°)	11.29		+FL140			RNAV 1
80	TF	BB262		083.80°(083.05°)	5.48		@FL130			RNAV 1
90	TF	BB263		083.33°(082.58°)	13.45		-FL110	-220.00		RNAV 1
100	TF	BB253		083.16°(082.41°)	19.73		@FL100	-200.00		RNAV 1
110	TF	BB254		359.49°(358.74°)	5.85			@190.00		RNAV 1
120	VM			350.00°(349.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STAR GUNDI 3K RWY 27

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	GUNDI								RNAV 1
20	TF	NM619		009.29°(008.54°)	26.02		@FL250			RNAV 1
30	TF	NM616		009.31°(008.56°)	30.62		@FL250			RNAV 1
40	TF	AKTOD		064.63°(063.88°)	40.16		+FL160	-250.00		RNAV 1
50	TF	BB260		053.69°(052.94°)	23.29		+FL160			RNAV 1
60	TF	BB261		082.55°(081.80°)	11.29		+FL140			RNAV 1
70	TF	BB262		083.80°(083.05°)	5.48		@FL130			RNAV 1
80	TF	BB263		083.04°(082.29°)	7.97		-FL110	-220.00		RNAV 1
90	TF	BB253		083.16°(082.41°)	19.73		@FL100	-200.00		RNAV 1
100	TF	BB254		359.49°(358.74°)	5.85			@190.00		RNAV 1
110	VM			350.00°(349.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STAR KABSO 3K RWY 27

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	KABSO								RNAV 1
20	TF	NM617		315.52°(314.77°)	48.60		@FL290			RNAV 1
30	TF	NM508		350.74°(349.99°)	27.66		+FL250			RNAV 1
40	TF	NM618		015.90°(015.15°)	10.00		@FL240			RNAV 1
50	TF	AKTOD		016.70°(015.95°)	19.61		+FL160	-250.00		RNAV 1
60	TF	BB260		053.69°(052.94°)	23.29		+FL160			RNAV 1
70	TF	BB261		082.55°(081.80°)	11.29		+FL140			RNAV 1
80	TF	BB262		083.80°(083.05°)	5.48		@FL130			RNAV 1
90	TF	BB263		083.33°(082.58°)	13.45		-FL110	-220.00		RNAV 1
100	TF	BB253		083.16°(082.41°)	19.73		@FL100	-200.00		RNAV 1
110	TF	BB254		359.49°(358.74°)	5.85			@190.00		RNAV 1
120	VM			350.00°(349.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STAR SUGID 3K RWY 27

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	SUGID								RNAV 1
20	TF	NM620		109.30°(108.55°)	121.51		@FL290			RNAV 1
30	TF	NM621		109.97°(109.22°)	12.63		@FL250			RNAV 1
40	TF	AKTOD		110.03°(109.28°)	41.61		+FL160	-250.00		RNAV 1
50	TF	BB260		053.69°(052.94°)	23.29		+FL160			RNAV 1
60	TF	BB261		082.55°(081.80°)	11.29		+FL140			RNAV 1
70	TF	BB262		083.80°(083.05°)	5.48		@FL130			RNAV 1
80	TF	BB263		083.04°(082.29°)	7.97		-FL110	-220.00		RNAV 1
90	TF	BB253		083.16°(082.41°)	19.73		@FL100	-200.00		RNAV 1
100	TF	BB254		359.49°(358.74°)	5.85			@190.00		RNAV 1
110	VM			350.00°(349.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STANDARD ARRIVAL CHART
INSTRUMENT (STAR)

RNAV1(GNSS)
SURVEILLANCE REQUIRED

TRANSITION ALT
6000

132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

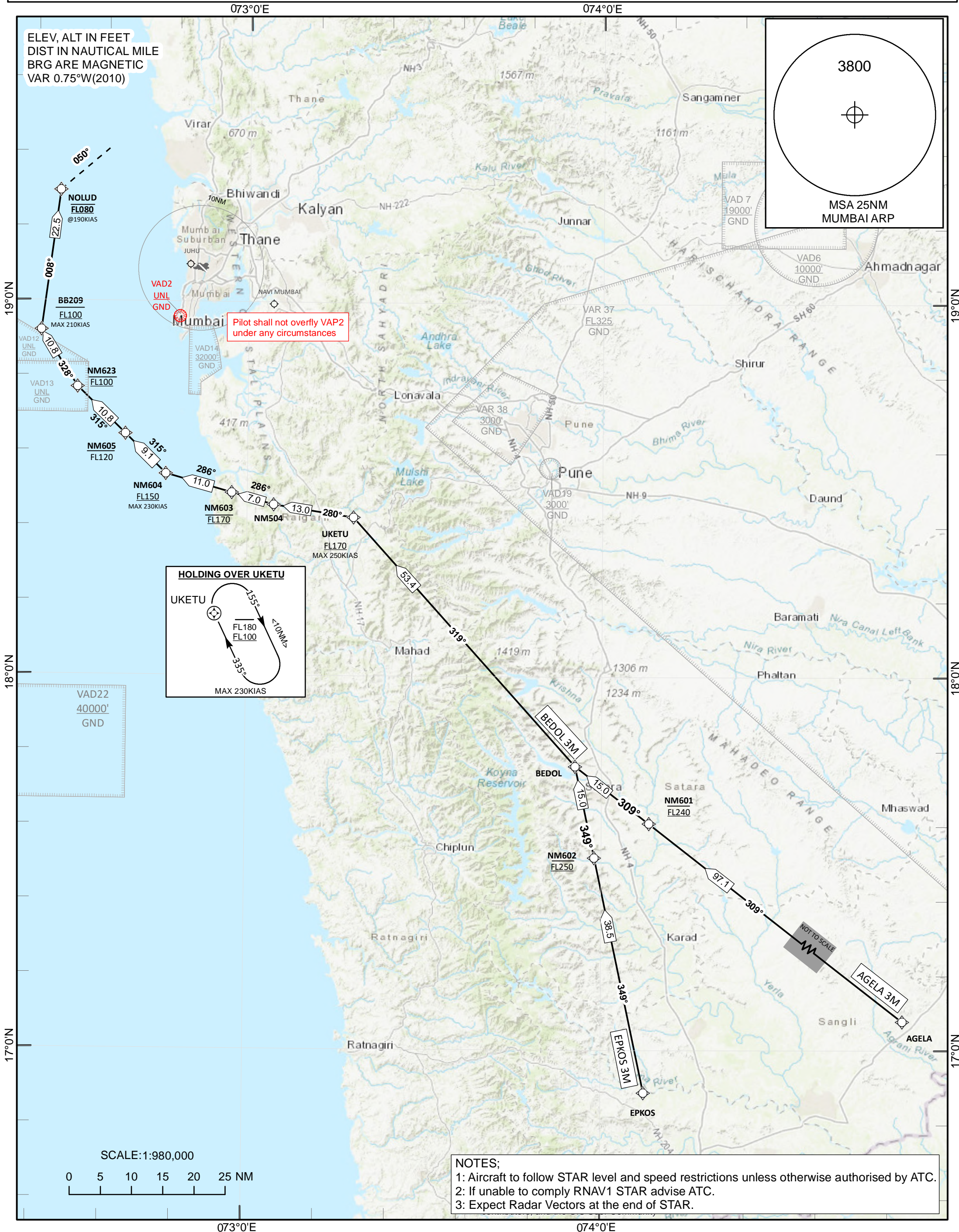
APP 119.300
120.350
127.900
TWR 118.100
122.500

MUMBAI (VABB)

INDIA

AGELA 3M, BEDOL 3M,
EPKOS 3M

RWY14



STANDARD ARRIVAL CHART
INSTRUMENT (STAR)

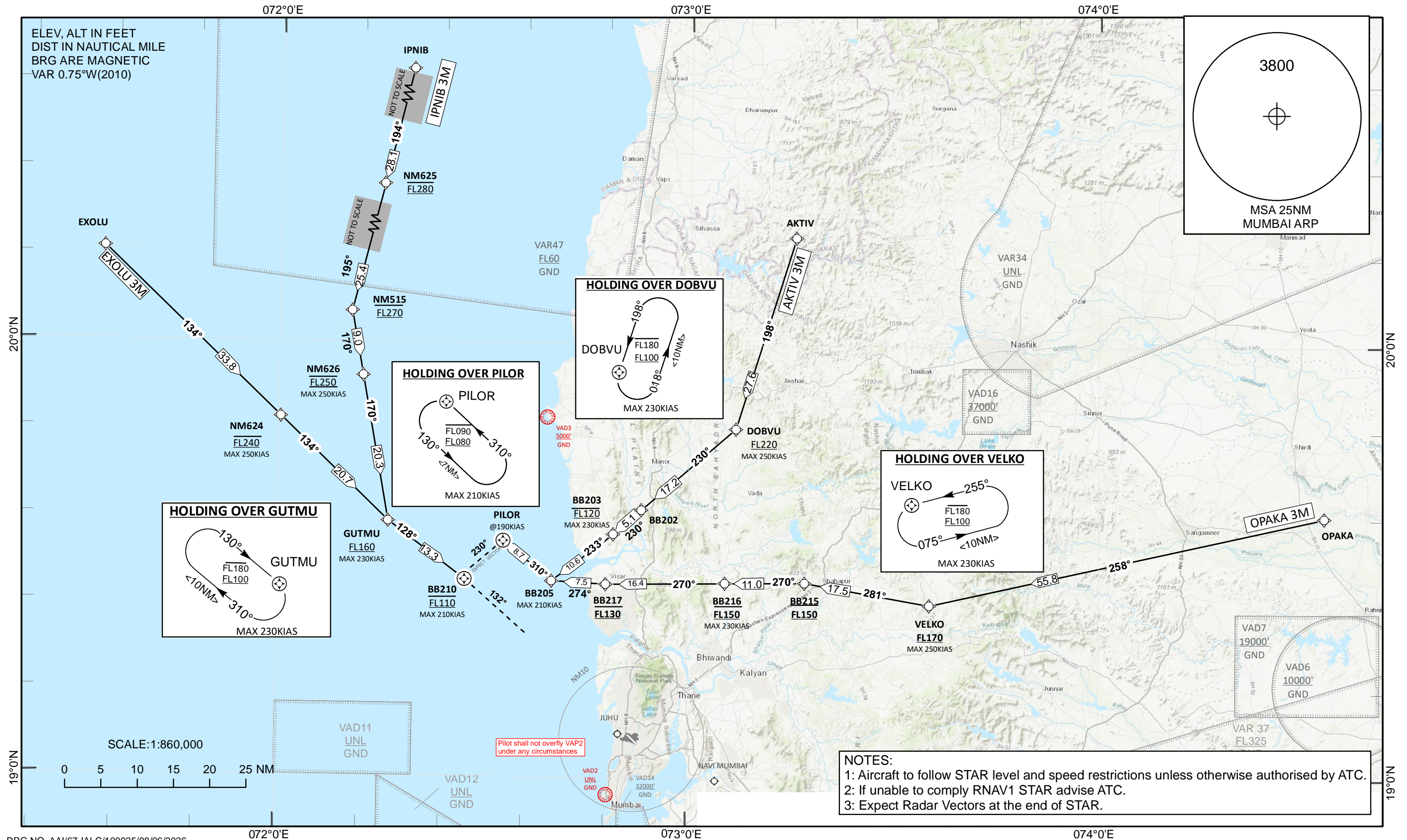
RNAV1(GNSS)
SURVEILLANCE REQUIRED

TRANSITION ALT
6000

132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

APP 119.300
120.350
127.900
TWR 118.100
122.500

MUMBAI(VABB)
INDIA
AKTIV 3M, EXOLU 3M
IPNIB 3M, OPAKA 3M
RWY 14



STANDARD ARRIVAL CHART
INSTRUMENT (STAR)

RNAV1(GNSS)
SURVEILLANCE REQUIRED

TRANSITION ALT
6000

132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

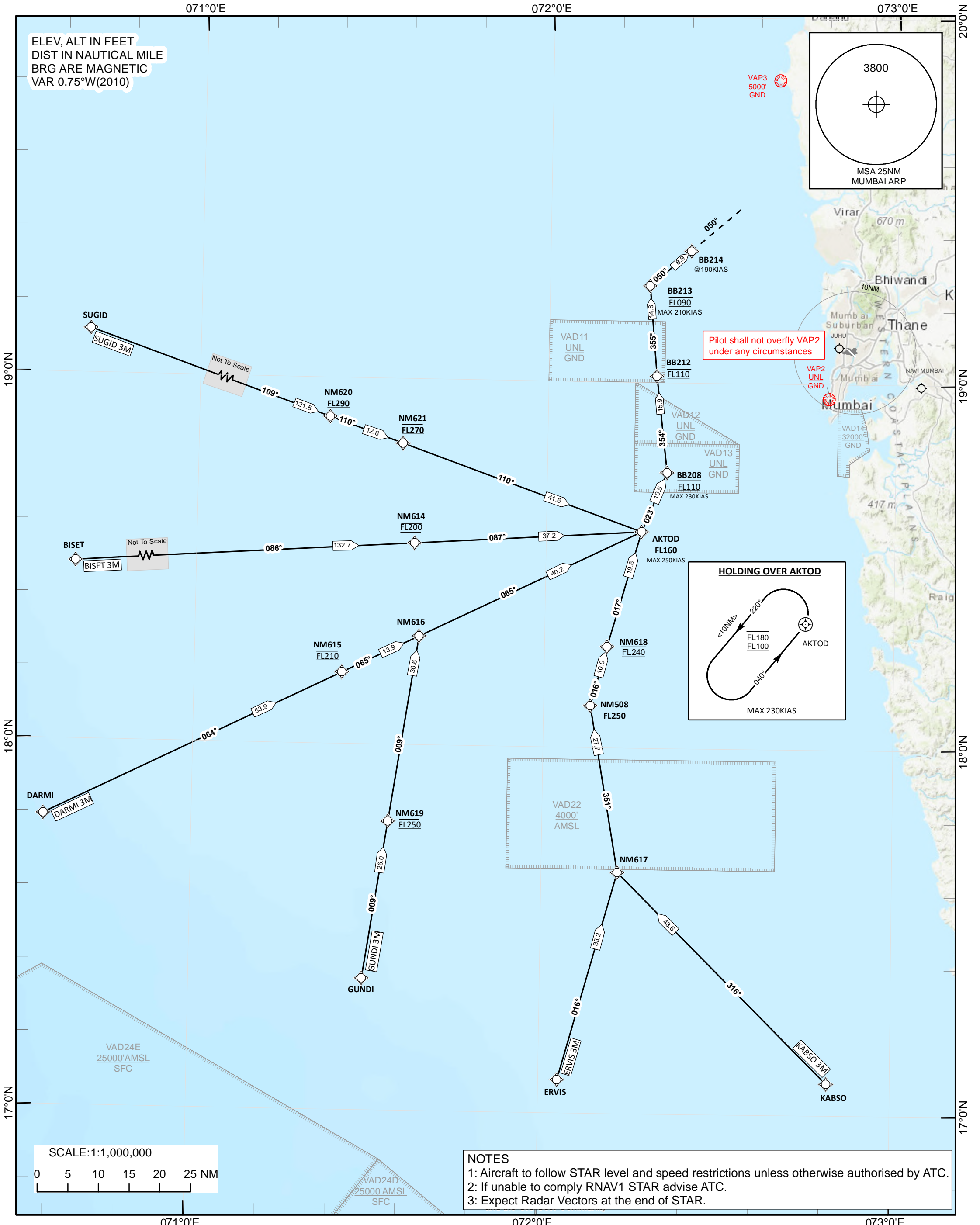
APP 119.300
120.350
127.900
TWR 118.100
122.500

MUMBAI (VABB)

INDIA

BISET 3M, DARMI 3M,
ERVIS 3M, GUNDI 3M,
KABSO 3M, SUGID 3M

RWY14



TABULAR DESCRIPTION

STAR AGELA 3M RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	AGELA								RNAV 1
20	TF	NM601		308.93° (308.18°)	97.14		@FL240			RNAV 1
30	TF	BEDOL		308.54° (307.79°)	15.00		@FL240			RNAV 1
40	TF	UKETU		318.77° (318.02°)	53.40		+FL170	-250.00		RNAV 1
50	TF	NM504		279.63° (278.88°)	13.02					RNAV 1
60	TF	NM603		286.42° (285.67°)	7.00		@FL170			RNAV 1
70	TF	NM604		286.38° (285.63°)	10.99		+FL150	-230.00		RNAV 1
80	TF	NM605		314.77° (314.02°)	9.07		-FL120			RNAV 1
90	TF	NM623		314.73° (313.98°)	10.81		@FL100			RNAV 1
100	TF	BB209		327.70° (326.95°)	10.84		@FL100	-210.00		RNAV 1
110	TF	NOLUD		008.08° (007.33°)	22.54		@FL080	@190.00		RNAV 1
120	VM			050.00° (049.25°)						RNAV 1
10	HM	UKETU	Y	335.00°(334.25°)	10.00	R	-FL180 +FL100	-230.00		RNAV1

STAR BEDOL 3M RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	BEDOL								RNAV 1
20	TF	UKETU		318.77° (318.02°)	53.40		+FL170	-250.00		RNAV 1
30	TF	NM504		279.63° (278.88°)	13.02					RNAV 1
40	TF	NM603		286.42° (285.67°)	7.00		@FL170			RNAV 1
50	TF	NM604		286.38° (285.63°)	10.99		+FL150	-230.00		RNAV 1
60	TF	NM605		314.77° (314.02°)	9.07		-FL120			RNAV 1
70	TF	NM623		314.73° (313.98°)	10.81		@FL100			RNAV 1
80	TF	BB209		327.70° (326.95°)	10.84		@FL100	-210.00		RNAV 1
90	TF	NOLUD		008.08° (007.33°)	22.54		@FL080	@190.00		RNAV 1
100	VM			050.00° (049.25°)						RNAV 1
10	HM	UKETU	Y	335.00°(334.25°)	10.00	R	-FL180 +FL100	-230.00		RNAV1

STAR EPKOS 3M RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	EPKOS								RNAV 1
20	TF	NM602		348.77° (348.02°)	38.48		@FL250			RNAV 1
30	TF	BEDOL		348.73° (347.98°)	15.00		@FL250			RNAV 1
40	TF	UKETU		318.77° (318.02°)	53.40		+FL170	-250.00		RNAV 1
50	TF	NM504		279.63° (278.88°)	13.02					RNAV 1
60	TF	NM603		286.42° (285.67°)	7.00		@FL170			RNAV 1
70	TF	NM604		286.38° (285.63°)	10.99		+FL150	-210.00		RNAV 1
80	TF	NM605		314.77° (314.02°)	9.07		-FL120			RNAV 1
90	TF	NM623		314.73° (313.98°)	10.81		@FL100			RNAV 1
100	TF	BB209		327.70° (326.95°)	10.84		@FL100	-210.00		RNAV 1
110	TF	NOLUD		008.08° (007.33°)	22.54		@FL080	@190.00		RNAV 1
120	VM			050.00° (049.25°)						RNAV 1
10	HM	UKETU	Y	335.00°(334.25°)	10.00	R	-FL180 +FL100	-230.00		RNAV1

TABULAR DESCRIPTION

STAR BISET 3M RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	BISET								RNAV 1
20	TF	NM614		086.19° (085.44°)	132.73		@FL200			RNAV 1
30	TF	AKTOD		086.92° (086.17°)	37.15		+FL160	-250.00		RNAV 1
40	TF	BB208		023.07° (022.32°)	10.50		@FL110	-230.00		RNAV 1
50	TF	BB212		354.02° (353.27°)	15.86		@FL110			RNAV 1
60	TF	BB213		355.49° (354.74°)	14.81		@FL090	-210.00		RNAV 1
70	TF	BB214		049.96° (049.21°)	8.85			@190.00		RNAV 1
80	VM			050.00° (049.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STAR DARMI 3M RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	DARMI								RNAV 1
20	TF	NM615		064.24° (063.49°)	53.89		@FL210			RNAV 1
30	TF	NM616		064.81° (064.06°)	13.91		@FL210			RNAV 1
40	TF	AKTOD		064.63° (063.88°)	40.16		+FL160	-250.00		RNAV 1
50	TF	BB208		023.07° (022.32°)	10.50		@FL110	-230.00		RNAV 1
60	TF	BB212		354.02° (353.27°)	15.86		@FL110			RNAV 1
70	TF	BB213		355.49° (354.74°)	14.81		@FL090	-210.00		RNAV 1
80	TF	BB214		049.96° (049.21°)	8.85			@190.00		RNAV 1
90	VM			050.00° (049.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STAR ERVIS 3M RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	ERVIS								RNAV 1
20	TF	NM617		016.15° (015.40°)	35.23		@FL280			RNAV 1
30	TF	NM508		350.74° (349.99°)	27.66		+FL250			RNAV 1
40	TF	NM618		015.90° (015.15°)	10.00		@FL240			RNAV 1
50	TF	AKTOD		016.70° (015.95°)	19.61		+FL160	-250.00		RNAV 1
60	TF	BB208		023.07° (022.32°)	10.50		@FL110	-230.00		RNAV 1
70	TF	BB212		354.02° (353.27°)	15.86		@FL110			RNAV 1
80	TF	BB213		355.49° (354.74°)	14.81		@FL090	-210.00		RNAV 1
90	TF	BB214		049.96° (049.21°)	8.85			@190.00		RNAV 1
100	VM			050.00° (049.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STAR GUNDI 3M RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	GUNDI								RNAV 1
20	TF	NM619		009.29° (008.54°)	26.02		@FL250			RNAV 1
30	TF	NM616		009.31° (008.56°)	30.62		@FL250			RNAV 1
40	TF	AKTOD		064.63° (063.88°)	40.16		+FL160	-250.00		RNAV 1
50	TF	BB208		023.07° (022.32°)	10.50		@FL110	-230.00		RNAV 1
60	TF	BB212		354.02° (353.27°)	15.86		@FL110			RNAV 1
70	TF	BB213		355.49° (354.74°)	14.81		@FL090	-210.00		RNAV 1
80	TF	BB214		049.96° (049.21°)	8.85			@190.00		RNAV 1
90	VM			050.00° (049.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STAR KABSO 3M RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	KABSO								RNAV 1
20	TF	NM617		315.52° (314.77°)	48.60		@FL290			RNAV 1
30	TF	NM508		350.74° (349.99°)	27.66		+FL250			RNAV 1
40	TF	NM618		015.90° (015.15°)	10.00		@FL240			RNAV 1
50	TF	AKTOD		016.70° (015.95°)	19.61		+FL160	-250.00		RNAV 1
60	TF	BB208		023.07° (022.32°)	10.50		@FL110	-230.00		RNAV 1
70	TF	BB212		354.02° (353.27°)	15.86		@FL110			RNAV 1
80	TF	BB213		355.49° (354.74°)	14.81		@FL090	-210.00		RNAV 1
90	TF	BB214		049.96° (049.21°)	8.85			@190.00		RNAV 1
100	VM			050.00° (049.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STAR SUGID 3M RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	SUGID								RNAV 1
20	TF	NM620		109.30° (108.55°)	121.51		+FL290			RNAV 1
30	TF	NM621		109.97° (109.22°)	12.63		@FL270			RNAV 1
40	TF	AKTOD		110.03° (109.28°)	41.61		+FL160	-250.00		RNAV 1
50	TF	BB208		023.07° (022.32°)	10.50		@FL110	-230.00		RNAV 1
60	TF	BB212		354.02° (353.27°)	15.86		@FL110			RNAV 1
70	TF	BB213		355.49° (354.74°)	14.81		@FL090	-210.00		RNAV 1
80	TF	BB214		049.96° (049.21°)	8.85			@190.00		RNAV 1
90	VM			050.00° (049.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

TABULAR DESCRIPTION

STAR AKTIV 3M RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	AKTIV								RNAV 1
20	TF	DOBVU		197.88° (197.13°)	27.60		+FL220	-250.00		RNAV 1
30	TF	BB202		229.66° (228.91°)	17.24					RNAV 1
40	TF	BB203		229.77° (229.02°)	5.10		@FL120	-230.00		RNAV 1
50	TF	BB205		233.21° (232.46°)	10.64		@FL090	-210.00		RNAV 1
60	TF	PILOR	Y	310.17° (309.42°)	8.69		@FL080	@190.00		RNAV 1
70	VM			230.00° (229.25°)						RNAV 1
10	HM	DOBVU	Y	198.00°(197.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV 1
10	HM	PILOR	Y	310.00°(309.25°)	7.00	L	-FL090 +FL080	-210.00		RNAV1

STAR EXOLU 3M RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	EXOLU								RNAV 1
20	TF	NM624		133.98° (133.23°)	33.76		@FL240	-250.00		RNAV 1
30	TF	GUTMU		134.23° (133.48°)	20.67		+FL160	-230.00		RNAV 1
40	TF	BB210	Y	127.52° (126.77°)	13.31		@FL110	-210.00		RNAV 1
50	VM			132.00° (131.25°)						RNAV 1
10	HM	GUTMU	Y	130.00°(129.25°)	10.00	R	-FL180 +FL100	-230.00		RNAV1

STAR IPNIB 3M RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	IPNIB								RNAV 1
20	TF	NM625		194.37° (193.62°)	28.12		@FL280			RNAV 1
30	TF	NM515		194.59° (193.84°)	25.42		@FL270			RNAV 1
40	TF	NM626		170.28° (169.53°)	9.00		@FL250	-250.00		RNAV 1
50	TF	GUTMU		170.29° (169.54°)	20.34		+FL160	-230.00		RNAV 1
60	TF	BB210	Y	127.52° (126.77°)	13.31		@FL110	-210.00		RNAV 1
70	VM			132.00° (131.25°)						RNAV 1
10	HM	GUTMU	Y	130.00°(129.25°)	10.00	R	-FL180 +FL100	-230.00		RNAV1

STAR OPAKA 3M RWY 14										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	OPAKA								RNAV 1
20	TF	VELKO		258.34° (257.59°)	55.83		+FL170	-250.00		RNAV 1
30	TF	BB215		280.68° (279.93°)	17.50		@FL150			RNAV 1
40	TF	BB216		269.95° (269.20°)	11.00		@FL150	-230.00		RNAV 1
50	TF	BB217		269.88° (269.13°)	16.43		@FL130			RNAV 1
60	TF	BB205		273.92° (273.17°)	7.50		@FL130	-210.00		RNAV 1
70	TF	PILOR	Y	310.17° (309.42°)	8.69		@FL100	@190.00		RNAV 1
80	VM			230.00° (229.25°)						RNAV 1
10	HM	PILOR	Y	310.00°(309.25°)	7.00	L	-FL090 +FL080	-210.00		RNAV1
10	HM	VELKO	Y	255.00°(254.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STANDARD ARRIVAL CHART
INSTRUMENT (STAR)

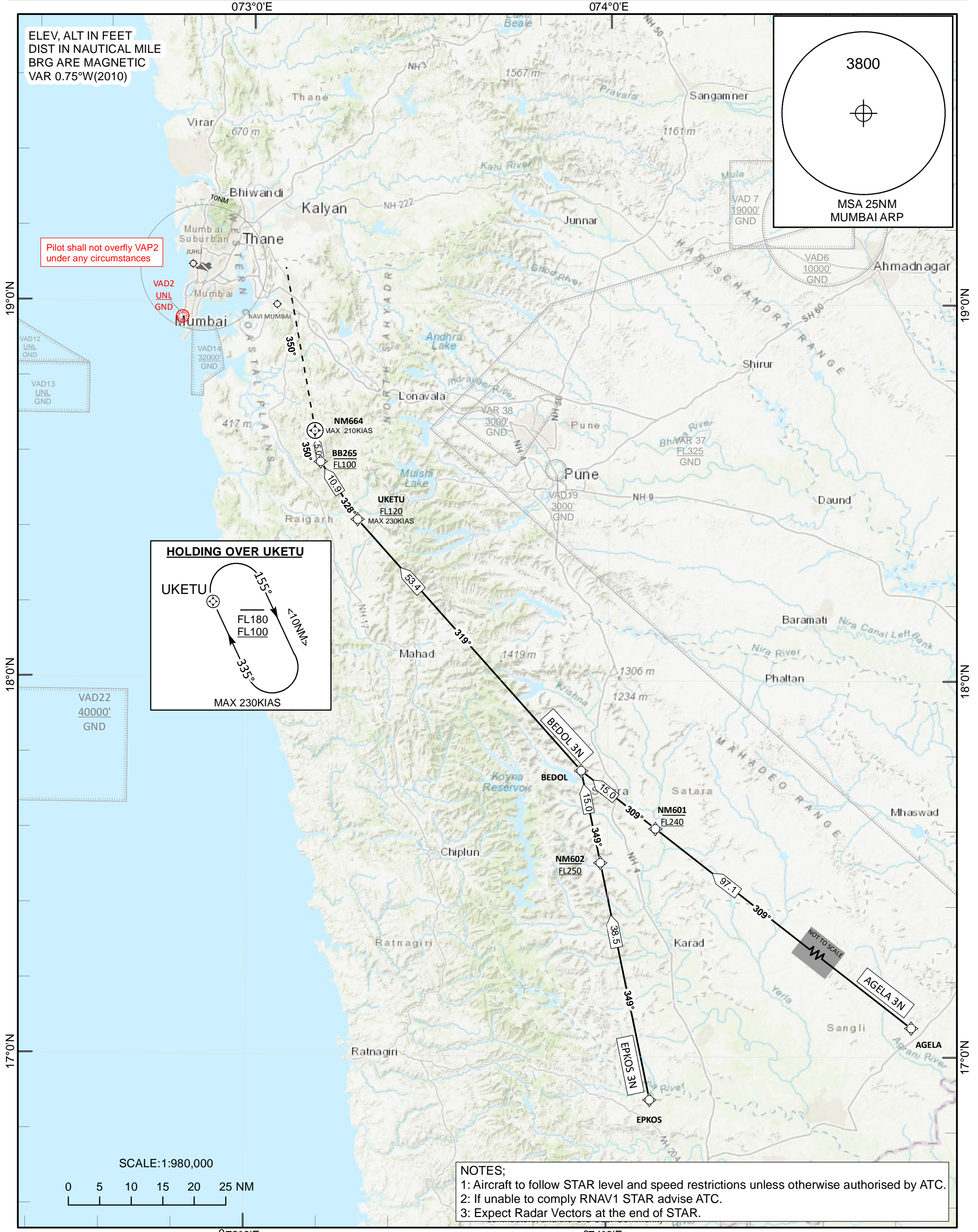
RNAV1(GNSS)
SURVEILLANCE REQUIRED

TRANSITION ALT
6000

132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

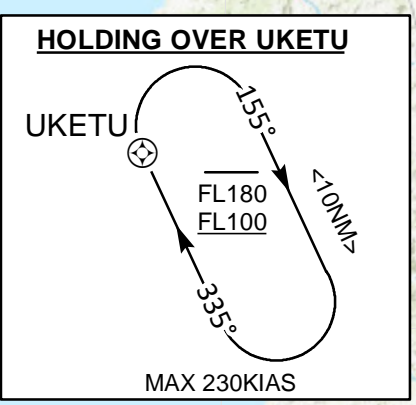
APP 119.300
120.350
127.900
TWR 118.100
122.500

MUMBAI (VABB)
INDIA
AGELA 3N, BEDOL 3N,
EPKOS 3N
RWY32



ELEV, ALT IN FEET
DIST IN NAUTICAL MILE
BRG ARE MAGNETIC
VAR 0.75°W(2010)

Pilot shall not overfly VAP2
under any circumstances



NOTES;
1: Aircraft to follow STAR level and speed restrictions unless otherwise authorised by ATC.
2: If unable to comply RNAV1 STAR advise ATC.
3: Expect Radar Vectors at the end of STAR.

STANDARD ARRIVAL CHART
INSTRUMENT (STAR)

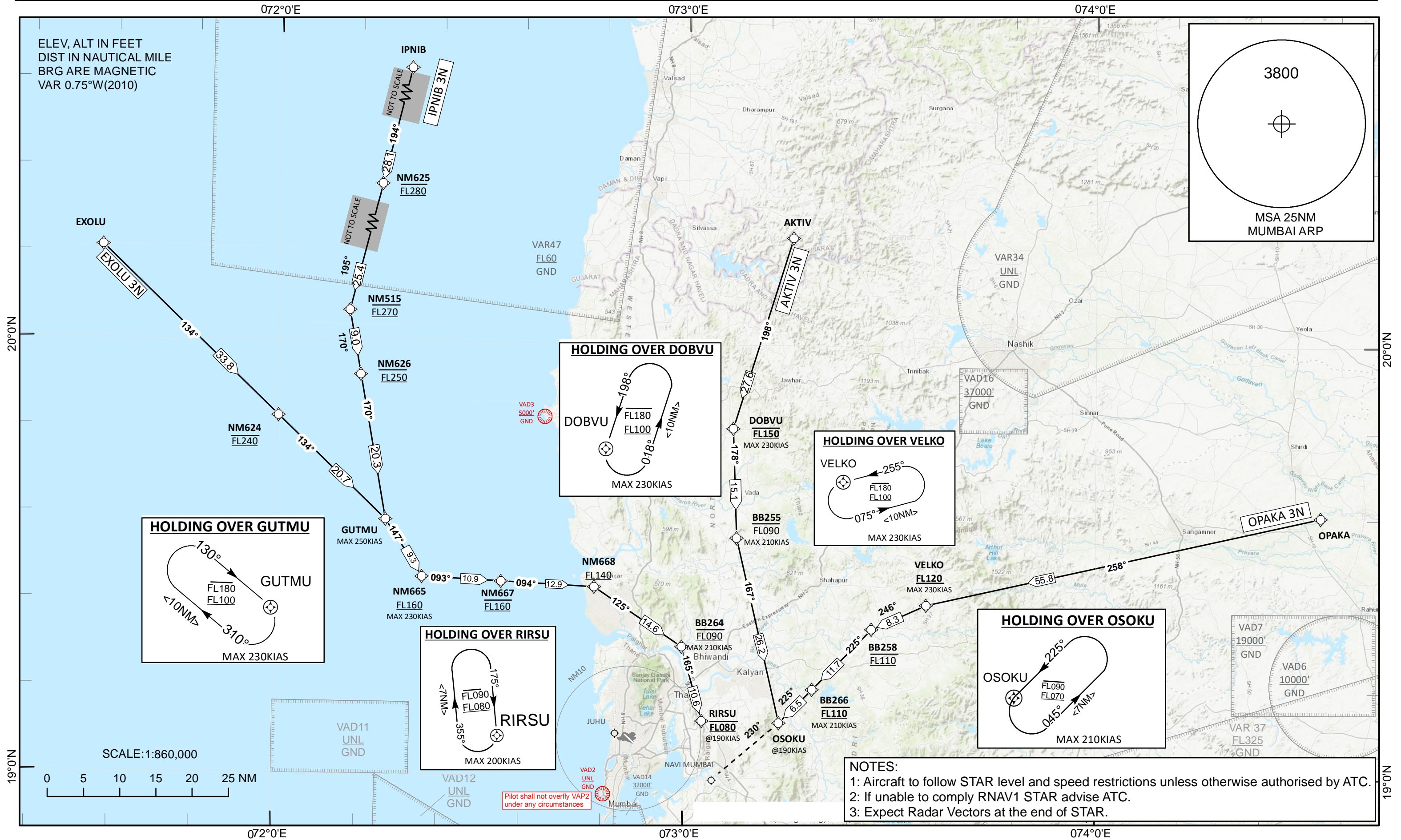
RNAV1(GNSS)
SURVEILLANCE REQUIRED

TRANSITION ALT
6000

132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

APP 119.300
120.350
127.900
TWR 118.100
122.500

MUMBAI(VABB)
INDIA
AKTIV 3N, EXOLU 3N
IPNIB 3N, OPAKA 3N
RWY 32



STANDARD ARRIVAL CHART
INSTRUMENT (STAR)

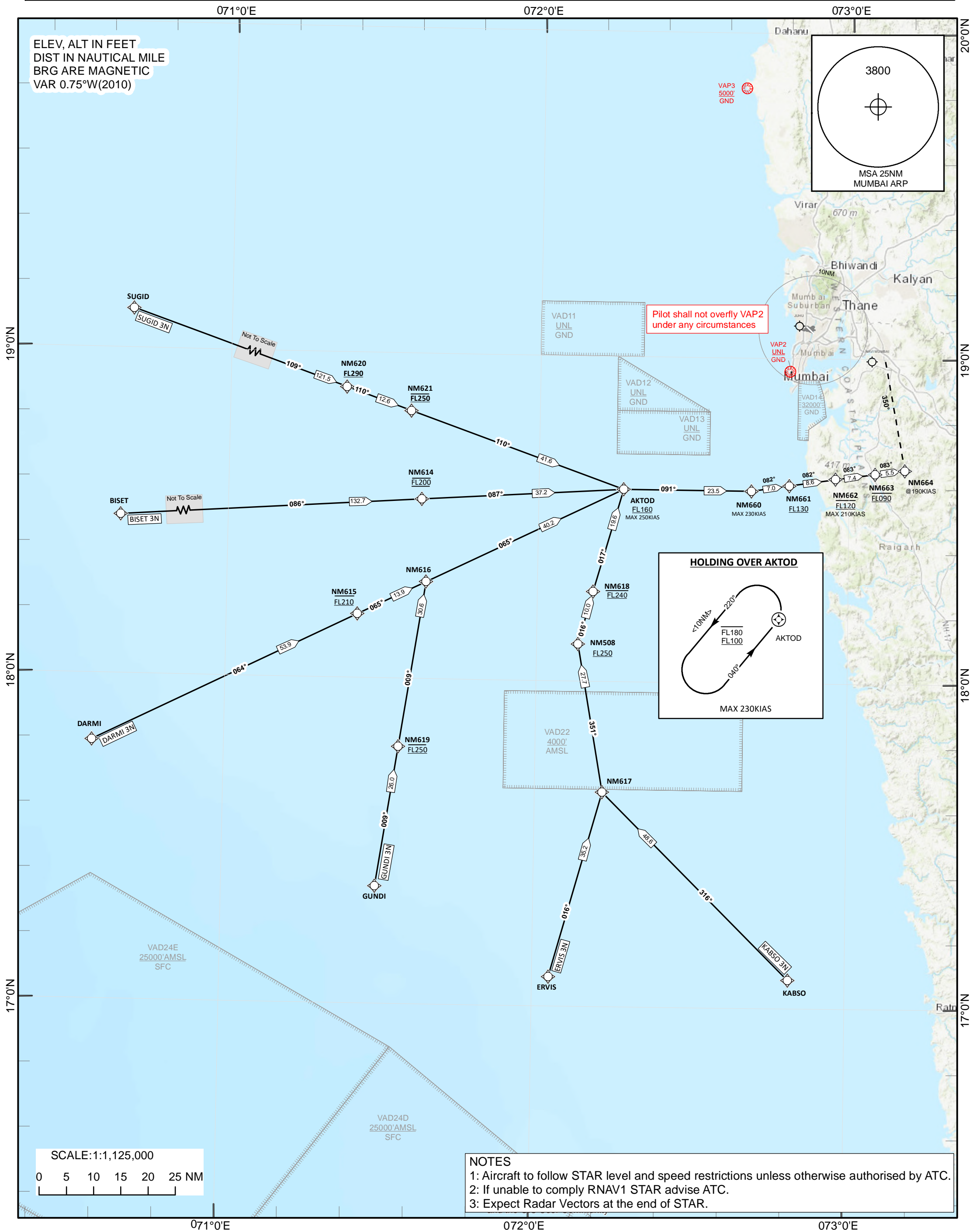
RNAV1(GNSS)
SURVEILLANCE REQUIRED

TRANSITION ALT
6000

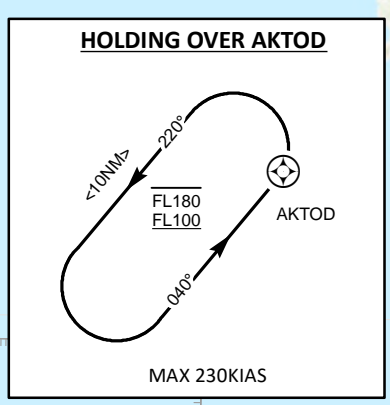
132.700 ACC(N)
125.350 ACC(S)
133.300 ACC(W)
133.425 LAC(1)
133.850 LAC(2)

APP 119.300
120.350
127.900
TWR 118.100
122.500

MUMBAI (VABB)
INDIA
BISET 3N, DARMI 3N,
ERVIS 3N, GUNDI 3N,
KABSO 3N, SUGID 3N
RWY32



Pilot shall not overfly VAP2 under any circumstances



TABULAR DESCRIPTION

STAR AGELA 3N RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	AGELA								RNAV 1
20	TF	NM601		308.93°(308.18°)	97.14		@FL240			RNAV 1
30	TF	BEDOL		308.54°(307.79°)	15.00		@FL240			RNAV 1
40	TF	UKETU		318.77°(318.02°)	53.40		+FL120	-230.00		RNAV 1
50	TF	BB265		327.64°(326.89°)	10.88		@FL100			RNAV 1
60	TF	NM664	Y	350.01°(349.26°)	5.00			-210.00		RNAV 1
70	VM			350.00°(349.25°)						RNAV 1
10	HM	UKETU	Y	335.00°(334.25°)	10.00	R	-FL180 +FL100	-230.00		RNAV1

STAR BEDOL 3N RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	BEDOL								RNAV 1
20	TF	UKETU		318.77°(318.02°)	53.40		+FL120	-230.00		RNAV 1
30	TF	BB265		327.64°(326.89°)	10.88		@FL100			RNAV 1
40	TF	NM664	Y	350.01°(349.26°)	5.00			-210.00		RNAV 1
50	VM			350.00°(349.25°)						RNAV 1
10	HM	UKETU	Y	335.00°(334.25°)	10.00	R	-FL180 +FL100	-230.00		RNAV1

STAR EPKOS 3N RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	EPKOS								RNAV 1
20	TF	NM602		348.77°(348.02°)	38.48		@FL250			RNAV 1
30	TF	BEDOL		348.73°(347.98°)	15.00		@FL250			RNAV 1
40	TF	UKETU		318.77°(318.02°)	53.40		+FL120	-230.00		RNAV 1
50	TF	BB265		327.64°(326.89°)	10.88		@FL100			RNAV 1
60	TF	NM664	Y	350.01°(349.26°)	5.00			-210.00		RNAV 1
70	VM			350.00°(349.25°)						RNAV 1
10	HM	UKETU	Y	335.00°(334.25°)	10.00	R	-FL180 +FL100	-230.00		RNAV1

TABULAR DESCRIPTION

STAR AKTIV 3N RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	AKTIV								RNAV 1
20	TF	DOBVU		197.88°(197.13°)	27.60		@FL150	-230.00		RNAV 1
30	TF	BB255		178.44°(177.69°)	15.06		-FL090	-210.00		RNAV 1
40	TF	OSOKU		167.36°(166.61°)	26.20		@FL080	@190.00		RNAV 1
50	VM			230.00°(229.25°)						RNAV 1
10	HM	DOBVU	Y	198.00°(197.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV 1
10	HM	OSOKU	Y	225.00°(224.25°)	7.00	L	-FL090 +FL070	-210.00		RNAV1

STAR EXOLU 3N RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	EXOLU								RNAV 1
20	TF	NM624		133.98°(133.23°)	33.76		@FL240			RNAV 1
30	TF	GUTMU		134.23°(133.48°)	20.67			-250.00		RNAV 1
40	TF	NM665		147.36°(146.61°)	9.33		+FL160	-230.00		RNAV 1
50	TF	NM667		093.49°(092.74°)	10.93		@FL160			RNAV 1
60	TF	NM668		093.53°(092.78°)	12.91		+FL140			RNAV 1
70	TF	BB264		124.52°(123.77°)	14.64		@FL090	-210.00		RNAV 1
80	TF	RIRSU		165.22°(164.47°)	10.60		@FL080	@190.00		RNAV 1
90	HM	RIRSU		175.00°(174.25°)	7.00	R	-FL090 +FL080	-200.00		RNAV 1
10	HM	GUTMU	Y	130.00°(129.25°)	10.00	R	-FL180 +FL100	-230.00		RNAV1

STAR IPNIB 3N RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	IPNIB								RNAV 1
20	TF	NM625		194.37°(193.62°)	28.12		@FL280			RNAV 1
30	TF	NM515		194.59°(193.84°)	25.42		@FL270			RNAV 1
40	TF	NM626		170.28°(169.53°)	9.00		@FL250			RNAV 1
50	TF	GUTMU		170.29°(169.54°)	20.34			-250.00		RNAV 1
60	TF	NM665		147.36°(146.61°)	9.33		+FL160	-230.00		RNAV 1
70	TF	NM667		093.49°(092.74°)	10.93		@FL160			RNAV 1
80	TF	NM668		093.53°(092.78°)	12.91		+FL140			RNAV 1
90	TF	BB264		124.52°(123.77°)	14.64		@FL090	-210.00		RNAV 1
100	TF	RIRSU		165.22°(164.47°)	10.60		@FL080	@190.00		RNAV 1
110	HM	RIRSU		175.00°(174.25°)	7.00	R	-FL090 +FL080	-200.00		RNAV 1
10	HM	GUTMU	Y	130.00°(129.25°)	10.00	R	-FL180 +FL100	-230.00		RNAV1

STAR OPAKA 3N RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	OPAKA								RNAV 1
20	TF	VELKO		258.34°(257.59°)	55.83		+FL120	-230.00		RNAV 1
30	TF	BB258		246.34°(245.59°)	8.25		@FL110			RNAV 1
40	TF	BB266		224.98°(224.23°)	11.70		@FL110	-210.00		RNAV 1
50	TF	OSOKU		225.48°(224.73°)	6.45		@FL100	@190.00		RNAV 1
60	VM			230.00°(229.25°)						RNAV 1
10	HM	OSOKU	Y	225.00°(224.25°)	7.00	L	-FL090 +FL070	-210.00		RNAV1
10	HM	VELKO	Y	255.00°(254.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

TABULAR DESCRIPTION

STAR BISET 3N RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	BISET								RNAV 1
20	TF	NM614		086.19°(085.44°)	132.73		@FL200			RNAV 1
30	TF	AKTOD		086.92°(086.17°)	37.15		+FL160	-250.00		RNAV 1
40	TF	NM660		090.83°(090.08°)	23.51			-230.00		RNAV 1
50	TF	NM661		082.03°(081.28°)	7.00		+FL130			RNAV 1
60	TF	NM662		082.32°(081.57°)	8.57		@FL120	-210.00		RNAV 1
70	TF	NM663		082.94°(082.19°)	7.35		@FL090			RNAV 1
80	TF	NM664		083.00°(082.25°)	5.50			@190.00		RNAV 1
90	VM			350.00°(349.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STAR DARMI 3N RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	DARMI								RNAV 1
20	TF	NM615		064.24°(063.49°)	53.89		@FL210			RNAV 1
30	TF	NM616		064.81°(064.06°)	13.91		@FL210			RNAV 1
40	TF	AKTOD		064.63°(063.88°)	40.16		+FL160	-250.00		RNAV 1
50	TF	NM660		090.83°(090.08°)	23.51			-230.00		RNAV 1
60	TF	NM661		082.03°(081.28°)	7.00		+FL130			RNAV 1
70	TF	NM662		082.32°(081.57°)	8.57		@FL120	-210.00		RNAV 1
80	TF	NM663		082.94°(082.19°)	7.35		@FL090			RNAV 1
90	TF	NM664		083.00°(082.25°)	5.50			@190.00		RNAV 1
100	VM			350.00°(349.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STAR ERVIS 3N RWY 32										
Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	ERVIS								RNAV 1
20	TF	NM617		016.15°(015.40°)	35.23		@FL270			RNAV 1
30	TF	NM508		350.74°(349.99°)	27.66		+FL250			RNAV 1
40	TF	NM618		015.90°(015.15°)	10.00		@FL240			RNAV 1
50	TF	AKTOD		016.70°(015.95°)	19.61		+FL160	-250.00		RNAV 1
60	TF	NM660		090.83°(090.08°)	23.51			-230.00		RNAV 1
70	TF	NM661		082.03°(081.28°)	7.00		+FL130			RNAV 1
80	TF	NM662		082.32°(081.57°)	8.57		@FL120	-210.00		RNAV 1
90	TF	NM663		082.94°(082.19°)	7.35		@FL090			RNAV 1
100	TF	NM664		083.00°(082.25°)	5.50			@190.00		RNAV 1
110	VM			350.00°(349.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STAR KABS0 3N RWY 32

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	KABS0								RNAV 1
20	TF	NM617		315.52°(314.77°)	48.60		@FL290			RNAV 1
30	TF	NM508		350.74°(349.99°)	27.66		+FL250			RNAV 1
40	TF	NM618		015.90°(015.15°)	10.00		@FL240			RNAV 1
50	TF	AKTOD		016.70°(015.95°)	19.61		+FL160	-250.00		RNAV 1
60	TF	NM660		090.83°(090.08°)	23.51			-230.00		RNAV 1
70	TF	NM661		082.03°(081.28°)	7.00		+FL130			RNAV 1
80	TF	NM662		082.32°(081.57°)	8.57		@FL120	-210.00		RNAV 1
90	TF	NM663		082.94°(082.19°)	7.35		@FL090			RNAV 1
100	TF	NM664		083.00°(082.25°)	5.50			@190.00		RNAV 1
110	VM			350.00°(349.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STAR GUNDI 3N RWY 32

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	GUNDI								RNAV 1
20	TF	NM619		009.29°(008.54°)	26.02		@FL250			RNAV 1
30	TF	NM616		009.31°(008.56°)	30.62		@FL250			RNAV 1
40	TF	AKTOD		064.63°(063.88°)	40.16		+FL160	-250.00		RNAV 1
50	TF	NM660		090.83°(090.08°)	23.51			-230.00		RNAV 1
60	TF	NM661		082.03°(081.28°)	7.00		+FL130			RNAV 1
70	TF	NM662		082.32°(081.57°)	8.57		@FL120	-210.00		RNAV 1
80	TF	NM663		082.94°(082.19°)	7.35		@FL090			RNAV 1
90	TF	NM664		083.00°(082.25°)	5.50			@190.00		RNAV 1
100	VM			350.00°(349.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

STAR SUGID 3N RWY 32

Serial Number	Path Descriptor	Waypoint Identifier	Fly-Over	Course °M(°T)	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (Kt)	VPA (%)	Navigation Specification
10	IF	SUGID								RNAV 1
20	TF	NM620		109.30°(108.55°)	121.51		+FL290			RNAV 1
30	TF	NM621		109.97°(109.22°)	12.63		@FL250			RNAV 1
40	TF	AKTOD		110.03°(109.28°)	41.61		+FL160	-250.00		RNAV 1
50	TF	NM660		090.83°(090.08°)	23.51			-230.00		RNAV 1
60	TF	NM661		082.03°(081.28°)	7.00		+FL130			RNAV 1
70	TF	NM662		082.32°(081.57°)	8.57		@FL120	-210.00		RNAV 1
80	TF	NM663		082.94°(082.19°)	7.35		@FL090			RNAV 1
90	TF	NM664		083.00°(082.25°)	5.50			@190.00		RNAV 1
100	VM			350.00°(349.25°)						RNAV 1
10	HM	AKTOD	Y	040.00°(039.25°)	10.00	L	-FL180 +FL100	-230.00		RNAV1

WAYPOINTS LIST: SIDs/STARs _ VABB

S.NO.	Waypoint	Coordinates	S.NO.	Waypoint	Coordinates
1	AAU	N 19:51:39.17 E 075:24:21.81	45	BB259	N 19:16:09.28 E 073:16:45.50
2	AGELA	N 16:36:24.00 E 075:27:57.00	46	BB260	N 18:49:36.00 E 072:36:00.12
3	AKTIV	N 20:14:53.30 E 073:15:29.50	47	BB261	N 18:51:12.63 E 072:47:47.32
4	AKTOD	N 18:35:31.38 E 072:16:24.37	48	BB262	N 18:51:52.50 E 072:53:31.46
5	BB101	N 19:05:20.02 E 073:03:03.86	49	BB263	N 18:52:56.66 E 073:01:51.13
6	BB102	N 19:05:12.27 E 073:14:51.97	50	BB264	N 19:18:08.02 E 072:59:38.65
7	BB103	N 18:54:43.03 E 073:18:11.50	51	BB265	N 18:34:35.83 E 073:11:45.28
8	BB104	N 19:05:21.34 E 073:00:55.26	52	BB266	N 19:12:18.57 E 073:18:43.00
9	BB105	N 19:43:28.17 E 072:50:08.95	53	BEDOL	N 17:45:39.00 E 073:55:35.00
10	BB106	N 19:19:58.99 E 072:41:07.20	54	BEKUT	N 17:43:21.00 E 073:13:05.00
11	BB107	N 19:22:23.21 E 072:08:13.12	55	BISET	N 18:23:21.37 E 069:18:06.46
12	BB108	N 19:32:29.32 E 073:22:09.62	56	DARMI	N 17:47:41.55 E 070:34:38.86
13	BB109	N 19:12:55.48 E 073:01:11.43	57	DOBVU	N 19:48:24.47 E 073:06:52.28
14	BB150	N 18:53:44.80 E 072:38:55.68	58	DOGAP	N 18:48:33.00 E 073:25:00.00
15	BB151	N 18:30:17.21 E 072:41:50.98	59	EPKOS	N 16:53:08.00 E 074:07:13.00
16	BB152	N 18:05:31.53 E 072:45:30.42	60	ERVIS	N 17:05:27.78 E 072:03:14.20
17	BB153	N 17:37:38.02 E 073:03:17.36	61	EXOLU	N 20:12:49.80 E 071:34:10.41
18	BB154	N 19:05:13.38 E 072:45:04.36	62	GUNDI	N 17:21:36.69 E 071:29:36.44
19	BB155	N 18:43:13.94 E 072:40:15.19	63	GUTMU	N 19:35:17.85 E 072:16:08.96
20	BB156	N 19:06:37.42 E 073:26:51.38	64	IPNIB	N 20:56:28.00 E 072:24:01.00
21	BB157	N 19:09:15.83 E 072:47:48.11	65	ISRIS	N 20:45:28.70 E 072:56:46.69
22	BB202	N 19:37:01.55 E 072:53:06.44	66	KABSO	N 17:05:14.80 E 072:49:09.80
23	BB203	N 19:33:40.08 E 072:49:01.80	67	KAKPO	N 19:45:36.00 E 074:00:57.00
24	BB204	N 19:30:30.45 E 072:44:46.93	68	LUVKI	N 19:12:29.27 E 072:35:12.74
25	BB205	N 19:27:09.39 E 072:40:06.11	69	MABTA	N 17:08:28.80 E 073:21:45.60

S.NO.	Waypoint	Coordinates	S.NO.	Waypoint	Coordinates
26	BB206	N 19:20:30.88 E 072:34:47.98	70	MELAX	N 19:29:55.09 E 075:37:56.48
27	BB208	N 18:45:16.25 E 072:20:36.44	71	NM503	N 18:46:28.42 E 073:08:51.27
28	BB209	N 18:55:18.11 E 072:24:56.39	72	NM504	N 18:27:27.34 E 073:04:28.71
29	BB210	N 19:27:17.72 E 072:27:25.77	73	NM505	N 18:16:36.02 E 073:06:36.19
30	BB211	N 19:12:29.18 E 072:41:01.44	74	NM506	N 18:18:55.99 E 072:56:01.78
31	BB212	N 19:01:04.83 E 072:18:38.72	75	NM507	N 18:14:26.33 E 072:37:38.53
32	BB213	N 19:15:52.92 E 072:17:12.68	76	NM508	N 18:06:54.18 E 072:07:59.21
33	BB214	N 19:21:41.15 E 072:24:18.07	77	NM509	N 17:47:54.40 E 071:51:50.33
34	BB215	N 19:27:10.00 E 073:17:02.73	78	NM510	N 18:04:03.14 E 071:53:36.86
35	BB216	N 19:27:00.35 E 073:05:24.36	79	NM513	N 19:57:15.14 E 072:39:44.94
36	BB217	N 19:26:44.56 E 072:48:01.59	80	NM514	N 20:01:33.21 E 072:21:50.03
37	BB251	N 18:41:00.40 E 073:22:15.31	81	NM515	N 20:04:15.35 E 072:10:30.31
38	BB252	N 18:49:40.29 E 073:22:37.39	82	NM516	N 20:05:58.15 E 072:03:17.56
39	BB253	N 18:55:32.45 E 073:22:29.23	83	NM517	N 20:11:25.74 E 072:22:18.21
40	BB254	N 19:01:24.60 E 073:22:21.06	84	NM518	N 19:09:24.03 E 072:05:51.28
41	BB255	N 19:33:18.03 E 073:07:30.88	85	NM519	N 19:07:28.97 E 071:23:24.83
42	BB256	N 19:21:35.12 E 073:08:04.79	86	NM520	N 18:53:43.54 E 070:42:44.79
43	BB257	N 19:12:32.40 E 073:08:25.26	87	NM522	N 19:19:54.88 E 073:00:56.50
44	BB258	N 19:20:43.84 E 073:27:20.58	88	NM523	N 19:30:21.27 E 073:15:55.12
89	NM524	N 20:00:14.94 E 074:41:55.35	114	NM625	N 20:29:01.83 E 072:16:57.80
90	NM525	N 18:41:05.06 E 073:17:08.95	115	NM626	N 19:55:22.33 E 072:12:14.42
91	NM554	N 18:15:57.26 E 072:43:53.00	116	NM629	N 19:16:17.59 E 073:20:27.92
92	NM555	N 18:11:28.55 E 072:25:56.46	117	NM660	N 18:35:27.88 E 072:41:09.16
93	NM557	N 18:45:28.76 E 073:01:12.48	118	NM661	N 18:36:31.66 E 072:48:26.27
94	NM560	N 19:19:34.61 E 072:40:42.58	119	NM662	N 18:37:47.10 E 072:57:21.84
96	NM562	N 19:13:12.83 E 072:27:24.51	120	NM663	N 18:38:47.12 E 073:05:02.00
97	NM563	N 18:59:31.31 E 073:20:47.12	121	NM664	N 18:39:31.72 E 073:10:46.39

S.NO.	Waypoint	Coordinates	S.NO.	Waypoint	Coordinates
98	NM601	N 17:36:25.74 E 074:08:00.30	122	NM665	N 19:27:28.56 E 072:21:35.01
99	NM602	N 17:30:55.24 E 073:58:51.46	123	NM667	N 19:26:56.70 E 072:33:07.95
100	NM603	N 18:29:21.09 E 072:57:23.22	124	NM668	N 19:26:18.44 E 072:46:46.86
101	NM604	N 18:32:19.21 E 072:46:14.59	125	NOLUD	N 19:17:44.39 E 072:27:58.77
102	NM605	N 18:38:38.82 E 072:39:22.38	126	NONEN	N 20:17:45.12 E 075:29:42.44
103	NM608	N 19:12:51.54 E 073:14:00.65	127	OPAKA	N 19:36:21.00 E 074:32:58.00
104	NM614	N 18:33:06.10 E 071:37:22.69	128	OSOKU	N 19:07:42.69 E 073:13:55.48
105	NM615	N 18:11:44.05 E 071:25:17.91	129	PILOR	N 19:32:41.78 E 072:32:59.42
106	NM616	N 18:17:50.23 E 071:38:26.81	130	PPN	N 18:35:04.40 E 073:54:44.75
107	NM617	N 17:39:33.51 E 072:13:02.09	131	RIRSU	N 19:07:52.71 E 073:02:38.51
108	NM618	N 18:16:35.59 E 072:10:44.01	132	SAKUN	N 19:36:26.94 E 071:11:48.89
109	NM619	N 17:47:26.50 E 071:33:39.39	133	SUGID	N 19:33:03.00 E 069:20:59.43
110	NM620	N 18:53:34.41 E 071:22:28.99	134	UKETU	N 18:25:26.72 E 073:18:00.81
111	NM621	N 18:49:23.56 E 071:35:03.55	135	UPRES	N 18:55:23.73 E 072:30:44.44
112	NM623	N 18:46:10.68 E 072:31:10.70	136	VELKO	N 19:24:09.24 E 073:35:17.02
113	NM624	N 19:49:35.14 E 072:00:15.96			