VTBO AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VTBO - TRAT (KHAO SMING) / TRAT AIRPORT

VTBO AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	121631N 1021912E Centre line of RWY, 900 M From THR 23
2	Direction and distance from (city)	32 KM , NW of city (Trat)
3	Elevation/Reference temperature	82 FT (25 M)/30.8°C
4	Geoid Undulation at AD ELEV PSN	NIL
5	MAG VAR/Annual change	0°31'W(2011)/0°1'W/YEAR
6	AD Administration, address, telephone, telefax, telex, AFS	Trat Airport Bangkok Airways Public Company Limited 99 Moo 3 Tambon Tasom Khao Saming District Trat Thailand 23150 Tel: +663 952 5777 Fax: +663 952 5778 E-mail: tdxairport@bangkokair.com Website: www.tratairport.com
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Operator: Bangkok Airways Public Company Limited

VTBO AD 2.3 OPERATIONAL HOURS

1	Aerodrome Operator	2300-1500
2	Customs and immigration	NIL
3	Health and sanitation	NIL
4	AIS Briefing Office	2300-1100
5	ATS Reporting Office (ARO)	2300-1100 other this period 3 HR PN to ATC via AFS: VTBBZAZX Tel: +662 285 9695
6	MET Briefing Office	2300-1100
7	ATS	2300-1100 other this period 3 HR PN to ATC via AFS: VTBBZAZX Tel: +662 285 9695
8	Fuelling	0100-1200 or available on Request
9	Handling	0100-1200 or available on Request
10	Security	H24
11	De-icing	NIL
12	Remarks	NIL

VTBO AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	NIL
2	Fuel/oil types	JET A-1
3	Fuelling facilities/capacity	Bangkok Aviation Fuel Service Public Co., Ltd. (BAFS) a) Regional Airport Manager E-mail: teerakan@bafs.co.th Tel: +668 9134 5690 b) Trat Airport Station E-mail: Pongsak.K@ips-services.co.th Tel: +668 1863 8602 Fuel Dispenser Truck: 1, Capacity: 7,500 L Fuel Tank Capacity: 25,000 L
4	De-icing facilities	NIL
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	NIL
7	Remarks	The airport has provided ground handling agent as following: a) Bangkok Airways Ground Services Co., Ltd. (PGGS) Ground Handling Inquiry E-mail: office@pg-gs.com Tel: +667 742 8500 Ext. 31381 +666 3079 6696 b) BAGS Ground Services Co., Ltd. E-mail: tdx-stationmanager@bags-groundservices.com Tel: +668 6804 9696

VTBO AD 2.5 PASSENGER FACILITIES

1	Hotels	In the city
2	Restaurants	At the AD and in the city
3	Transportation	Limousines
4	Medical facilities	First AID at airport
5	Bank and Post Office	In the city
6	Tourist Office	Office in Amphoe Lame Ngop
7	Remarks	NIL

VTBO AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	Category 5
2	Rescue equipment	AVBL at Fire Fighting Truck (Foam 570 L., Water 5700 L.) and Water Truck 15000 L.
3	Capability for removal of disabled aircraft	NIL
4	Remarks	Available 24H

VTBO AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Types of clearing equipment	NIL
2	Clearance priorities	NIL
3	Remarks	The aerodrome is available all seasons

VTBO AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	N/A
2	Taxiway width, surface and strength	N/A
3	Altimeter checkpoint location and elevation	THR 18, 61 FT
4	VOR checkpoints	N/A
5	INS checkpoints	N/A
6	Remarks	ACFT parking on RWY

VTBO AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	N/A
2	RWY and TWY markings and LGT	RWY : Marking and lighting
3	Stop bars	N/A
4	Remarks	No TWY

VTBO AD 2.10 AERODROME OBSTACLES

In approach/TKOF areas			In circling areas and at AD		Remarks
1			2		3
RWY/Area affected	Obstacle type Elevation Markings/LGT	Coordinates	Obstacle type Elevation Markings/LGT	Coordinates	
a	b	c	a	b	
NIL			Hill 210 M (690 FT) Hill 206 M (676 FT) Hill 102.46 M (340 FT)	121608N 1021805E 121533N 1021909E 121601N 1021845E	NIL

VTBO AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	Aeronautical Meteorological Station-Trat, Thai Meteorological Department (TMD)
2	Hours of service MET Office outside hours	2200-1100 NIL
3	Office responsible for TAF preparation Periods of validity	Supply TAF from Aeronautical Meteorology Division 24 HR
4	Type of landing forecast Interval of issuance	NIL NIL
5	Briefing/consultation provided	Personal Consultation Tel: +663 952 5777 ext. 3433
6	Flight documentation Language(s) used	NIL
7	Charts and other information available for briefing or consultation	NIL
8	Supplementary equipment available for providing information	Barometer, Anemometer and Thermometer Screen
9	ATS units provided with information	Trat TWR
10	Additional information (limitation of service, etc.)	NIL

VTBO AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY(M)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
05	051.28°	1800x45	PCN 41/F/B/X/T Concrete and asphalt	121612.65N 1021848.46E	THR 32.15 M
23	231.28	1800x45	PCN 41/F/B/X/T Concrete and asphalt	121649.30N 1021934.94E	THR 18.73 M

Slope of RWY-SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
-0.80%-0.40% (1550, 250)	NIL	60x150	1920x150	NIL	NIL
+0.40%+0.80% (250, 1550)	NIL	60x150	1920x150	NIL	NIL

VTBO AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
05	1800	1860	1800	1800	NIL
23	1800	1860	1800	1800	NIL

VTBO AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ, LGT LEN	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour INTST	RWY End LGT colour WBAR	SWY LGT LEN (M) colour	Remarks
1	2	3	4	5	6	7	8	9	10
05	NIL	Green	PAPI LEFT 4°	NIL	1800 M 60 M White	1800 M 60 M White	Red	NIL	NIL
23	NIL	Green	PAPI LEFT 3°	NIL	1800 M 60 M White	1800 M 60 M White	Red	NIL	NIL

VTBO AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: On top of Control Tower. FLG WG EV 3 SEC 2300-1130
2	LDI location and LGT Anemometer location and LGT	WDI 315 M offset 100 M FM THR23 left side illuminated WDI at THR23 right side offset 88 M WDI 628 offset 88 M FM THR23 right side illuminated
3	TWY edge and centre line lighting	NIL
4	Secondary power supply/switch-over time	STBY power switch-overtime 17 SEC
5	Remarks	NIL

VTBO AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO Geoid undulation	NIL
2	TLOF and/or FATO elevation M/FT	NIL
3	TLOF and FATO area dimensions, surface, strength, marking	NIL
4	True and MAG BRG of FATO	NIL
5	Declared distance available	NIL
6	APP and FATO lighting	NIL
7	Remarks	NIL

VTBO AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	A Circle of 5 NM radius centred on Trat NDB (121628.10N 1021850.08E)
2	Vertical limits	2000 FT/AGL
3	Airspace classification	D
4	ATS unit call sign Language(s)	Trat Tower English, Thai
5	Transition altitude	11000 FT
6	Remarks	NIL

VTBO AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP	Trat Approach	120.25 MHZ 121.5 MHZ [1)]	As AD OPR HR	[1)]Emergency frequency
TWR	Trat Tower	122.9 MHZ 121.5 MHZ[1)]	23:00-11:00	

VTBO AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, MAG VAR CAT of ILS/MLS (For VOR/ILS/MLS, give declination)	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
NDB	TRT	384 KHZ	H24	121628.10N 1021850.08E	24 M from ground	NDB restriction, due to mountainous terrain surround NDB station, coverage check does not provide adequate signal clockwise 50 NM orbit at altitude in various areas as follows: - Bearing 001º-145º unable to performed due to border limited. - Bearing 146º-320º altitude should not below 5 000 FT - Bearing 321º-360º altitude should not below 8 000 FT
DME	TRT	Tx. 997 MHZ Rx.1060 MHZ CH36X (109.9 MHZ)	H24	121635.29N 1021908.74E	15 M from ground	DME restriction, due to mountainous terrain surround DME station, coverage check does not provide adequate signal clockwise orbit at required altitude and distance in various areas as follows: 1. 25 NM orbit - Radial 006º-020º altitude should not below 2 000 FT - Radial 121º-150º altitude should not below 14 000 FT - Radial 151º-190º altitude should not below 10 000 FT - Radial 191º-005º altitude should not below 7 000 FT 2. 20 NM orbit (Due to border limited) - Radial 021º-090º altitude should not below 2 000 FT - Radial 091º-120º altitude should not below 5 000 FT

VTBO AD 2.20 LOCAL AERODROME REGULATIONS

- If an aircraft is parking on RWY, using the RWY is totally prohibited for another aircraft.

VTBO AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VTBO AD 2.22 FLIGHT PROCEDURES

1. IFR DEPARTURES OTHER THAN VIA SID

IFR departure procedures described below are determined for the purpose of case when an instrument departure via SID is impossible or undesirable.

2. VISUAL DEPARTURES

Visual departures during take-off and initial climb-out are permitted during the daytime and Visual Meteorological Conditions (VMC). ATC clearance to execute a visual departure may be issued upon request of the pilot or upon initiative of the ATC and accepted by the pilot.

To execute a visual departure

- meteorological conditions in the direction of take-off and the following climb-out shall enable visual reference to terrain up to Minimum Sector Altitude (MSA) or Minimum Flight Altitude (MFA) stated in ATC clearance,
- the pilot shall be responsible for obstacle clearance until such specified altitude,
- the pilot prior to take-off shall agree to execute this procedure,
- the ATC clearance shall be readback,

3. OMNIDIRECTIONAL DEPARTURES

Omnidirectional departures during take-off and initial climb-out are permitted during the day and night. ATC clearance to execute an omnidirectional departure may be issued upon request of the pilot or upon initiative of the ATC and accepted by the pilot.

To execute an omnidirectional departure:

- the pilot shall be maintaining a minimum climb gradient up to specific altitude as published shown as below,
- the pilot shall be responsible for adherence to such obtained ATC clearance,
- the pilot prior to take-off shall agree to execute this procedure,
- The ATC clearance shall be readback,

- Runway 05:

TRAT OMNI 05 Departure: Required climb gradient 201 ft per NM (3.3%) until 4,100 ft.

Ground speed	Knot	65	75	100	150	200	250	300
Rate of climb 3.3%	(ft/min)	217	251	334	501	668	835	1003

No turn before DER.
After departure climb straight ahead until 1,200 ft (or altitude assigned by ATC between 1,200 ft - 3,500 ft), then comply with ATC clearance issued (or as directed by ATC).

VTBO AD 2.23 ADDITIONAL INFORMATION

NIL

VTBO AD 2.24 CHARTS RELATED TO AN AERODROME

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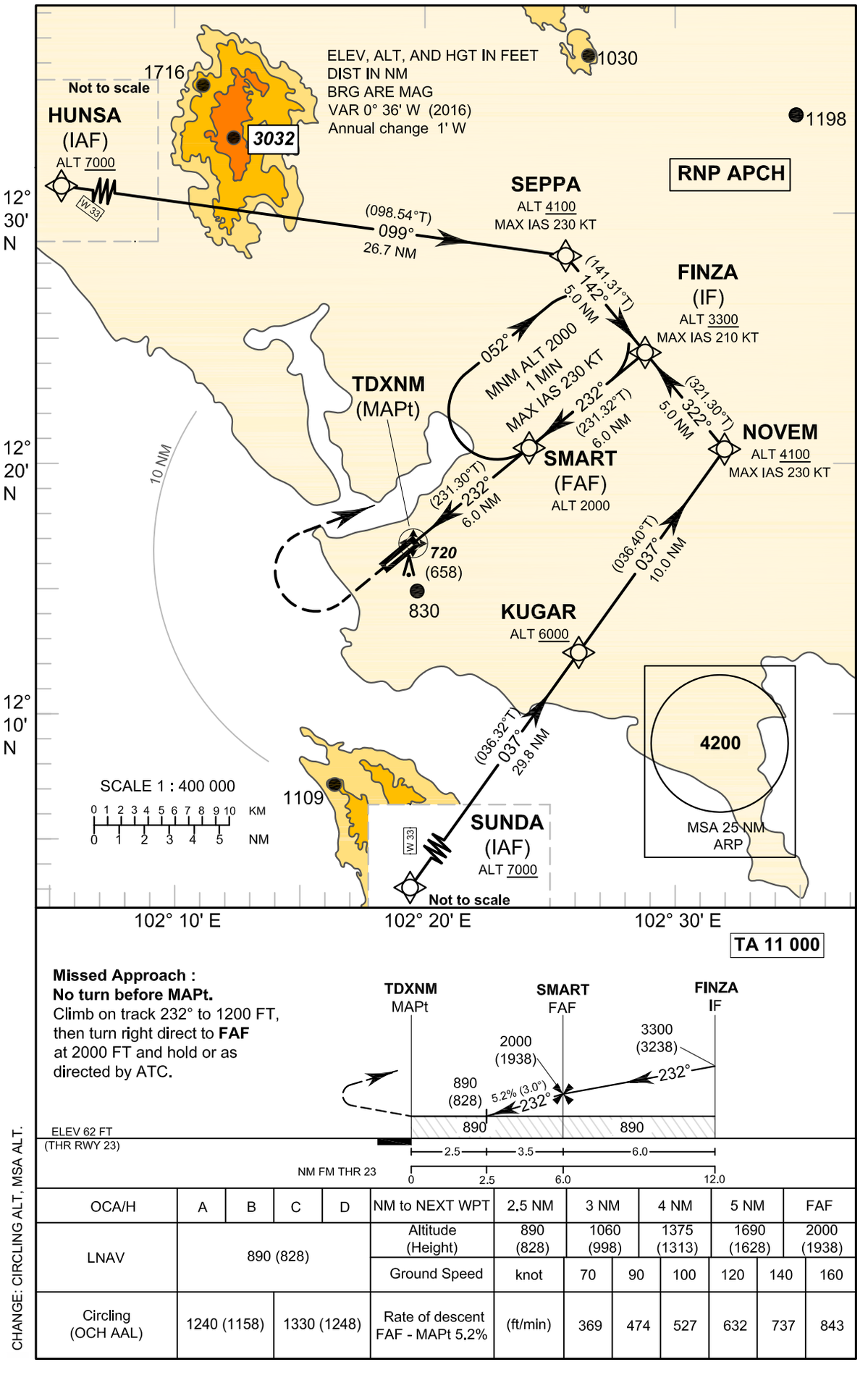
INSTRUMENT APPROACH CHART-ICAO

AERODROME ELEV 82 FT
HEIGHTS RELATED TO
THR RWY23 - ELEV 62 FT

APP : 120.25
TWR : 122.9

TRAT / Trat (VTBO)
RNP RWY23



TA 11 000

Missed Approach :
No turn before MAPt.
Climb on track 232° to 1200 FT, then turn right direct to **FAF** at 2000 FT and hold or as directed by ATC.

CHANGE: CIRCLING ALT, MSA ALT.

OCA/H	A	B	C	D	NM to NEXT WPT	2.5 NM	3 NM	4 NM	5 NM	FAF
LNAV	890 (828)				Altitude (Height)	890 (828)	1060 (998)	1375 (1313)	1690 (1628)	2000 (1938)
					Ground Speed	knot	70	90	100	120	140	160
Circling (OCH AAL)	1240 (1158)		1330 (1248)		Rate of descent FAF - MAPt 5.2%	(ft/min)	369	474	527	632	737	843

INSTRUMENT APPROACH CHART - ICAO | **AERODROME ELEV 82 FT** HEIGHTS RELATED TO THR RWY23 - ELEV 62 FT | **TART / Trat (VTBO) RNP RWY23**

TABULAR DESCRIPTION

RNP RWY23

Serial Number	Path Descriptor	Waypoint Identifier	Flyover	Course ° M (° T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KT)	VPA/ TCH	Navigation Specification
010	IF	SUNDA (IAF)	-	-	+0.60	-	-	+7000	-	-	RNP APCH
020	TF	KUGAR	-	037°(036.32°)	+0.60	29.8	-	+6000	-	-	RNP APCH
030	TF	NOVEM	-	037°(036.40°)	+0.60	10.0	L	+4100	- 230	-	RNP APCH
040	TF	FINZA (IF)	-	322°(321.30°)	+0.60	5.0	-	+3300	- 210	-	RNP APCH
010	IF	HUNSA (IAF)	-	-	+0.60	-	-	+7000	-	-	RNP APCH
020	TF	SEPPA	-	099°(098.54°)	+0.60	26.7	R	+4100	- 230	-	RNP APCH
030	TF	FINZA (IF)	-	142°(141.31°)	+0.60	5.0	-	+3300	- 210	-	RNP APCH
010	IF	FINZA (IF)	-	-	+0.60	-	-	+3300	- 210	-	RNP APCH
020	TF	SMART (FAF)	-	232°(231.32°)	+0.60	6.0	-	@2000	-	-	RNP APCH
030	TF	TDXNM (MAPt)	Y	232°(231.30°)	+0.60	6.0	-	@890	-	-	RNP APCH
040	CA	-	-	232°(231.30°)	+0.60	-	-	+1200	-	-	RNP APCH
050	DF	SMART (FAF)	-	-	+0.60	-	R	+2000	-	-	RNP APCH
060	HM	SMART (FAF)	Y	232°(231.32°)	+0.60	1 minute	R	+2000	- 230	-	RNP APCH

WAYPOINT LIST

RNP RWY23

Waypoint Identifier	Coordinates	
SUNDA	11° 48' 14.01" N	102° 08' 14.08" E
KUGAR	12° 12' 21.61" N	102° 26' 16.32" E
NOVEM	12° 20' 25.98" N	102° 32' 19.57" E
HUNSA	12° 32' 15.73" N	101° 59' 00.42" E
SEPPA	12° 28' 15.82" N	102° 25' 56.90" E
FINZA	12° 24' 20.91" N	102° 29' 08.28" E
SMART	12° 20' 35.16" N	102° 24' 21.55" E
TDXNM (THR23)	12° 16' 49.30" N	102° 19' 34.94" E

CHANGE : CHART TITLE.