VTSB AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VTSB - SURAT THANI / SURAT THANI AIRPORT

VTSB AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

| 1 ARP coordinates and site at AD 090810.09N 0990820.55E | | 090810.09N 0990820.55E | |
|---|--|--|--|
| 2 | Direction and distance from (city) | 25 KM. W from city | |
| 3 | Elevation/Reference temperature | 20 FT/28°C | |
| 4 | Geoid Undulation at AD ELEV PSN | NIL | |
| 5 | MAG VAR/Annual change | 0.46°W(2016)/0.01°E | |
| 6 | AD Administration, address, telephone, telefax, telex, AFS | Director of Surat Thani Airport Surat Thani Airport Tambon Huatoi, Amphoe Phunphin Surat Thani Province 84130 Thailand Tel: +667 744 1230 +667 744 1349 Fax: +667 744 1225 AFS: VTSBYDYX | |
| 7 | Types of traffic permitted (IFR/VFR) | IFR/VFR | |
| 8 | Remarks | Operator: Department of Airports | |

VTSB AD 2.3 OPERATIONAL HOURS

| 1 | Aerodrome Operator | 2200-1700 | |
|---------------------------|----------------------------|-----------------------------------|--|
| 2 Customs and immigration | | On request | |
| 3 | Health and sanitation | On request | |
| 4 AIS Briefing Office 2 | | 2300-1400 | |
| 5 | ATS Reporting Office (ARO) | H24 | |
| 6 | MET Briefing Office | H24 | |
| 7 | ATS | H24 | |
| 8 Fuelling | | 0100-1200 Another time on request | |
| 9 | Handling | NIL | |
| 10 | Security | H24 | |
| 11 | De-icing | NIL | |
| 12 | Remarks | NIL | |

VTSB AD 2.4 HANDLING SERVICES AND FACILITIES

| 1 | Cargo-handling facilities | NIL | | |
|---|---|---|--|--|
| 2 | Fuel/oil types | JET A-1, AVGAS | | |
| 3 | Fuelling facilities/capacity | 1 JET A-1 Refueller @ 12,000 L 1 JET A-1 Refueller @ 22,000 L 1 AVGAS DC Motor Dispenser from drum 50 L | | |
| 4 | De-icing facilities | NIL | | |
| 5 | Hangar space for visiting aircraft | NIL | | |
| 6 | Repair facilities for visiting aircraft | NIL | | |
| 7 | Remarks | NIL | | |

VTSB AD 2.5 PASSENGER FACILITIES

| 1 | Hotels | In the city | |
|---|----------------------|----------------------------|--|
| 2 | Restaurants | In the city | |
| 3 | Transportation | Limosine, Car rental, Taxi | |
| 4 | Medical facilities | NIL | |
| 5 | Bank and Post Office | NIL | |
| 6 | Tourist Office | NIL | |
| 7 | Remarks | NIL | |

VTSB AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

| 1 | AD category for fire fighting | Category 8 |
|---|---|------------|
| 2 | Rescue equipment | Yes |
| 3 | Capability for removal of disabled aircraft | NIL |
| 4 | Remarks | NIL |

VTSB AD 2.7 SEASONAL AVAILABILITY - CLEARING

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

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

| 1 | Apron surface and strength | Surface: Concrete Strength: PCN 65/R/C/X/T | | |
|---|---|--|--|--|
| 2 | Taxiway width, surface and strength | TWY A and B Width: 23 M Surface: Concrete and asphalt Strength: PCN 65/F/C/X/T TWY C (Parallel TWY), D, E, F, G, H, I and J Width: 23 M Surface: Concrete Strength: PCN 65/R/C/X/T | | |
| 3 | Altimeter checkpoint location and elevation | NIL | | |
| 4 | VOR checkpoints | NIL | | |
| 5 | INS checkpoints | NIL | | |
| 6 | Remarks | NIL | | |

VTSB AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

| Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands | | NIL | |
|---|------------------------------|---------------------------------|--|
| 2 | RWY and TWY markings and LGT | RWY and TWY: Marked and lighted | |
| 3 | Stop bars | NIL | |
| 4 | Remarks | NIL | |

VTSB AD 2.10 AERODROME OBSTACLES

| | In approach/TKOF area | as | In circling are | Remarks | | |
|-------------------|---|--------------------------------------|--|-----------|-----|--|
| | 1 | | 2 | 2 | | |
| RWY/Area affected | d Obstacle type Coordinates Elevation Markings/LGT | | Obstacle type Elevation Markings/LGT | Elevation | | |
| а | b | С | а | b | | |
| NIL | Radio mast HGT 45 M painted red/ white LGTD on top Radio mast HGT 45 M painted red/ white LGTD on top | 090900N 0991000E 090823N 0990715E | NIL | NIL | NIL | |
| | Radio mast HGT 121 M painted red/ white LGTD on top | 090750N 0992130E | | | | |

VTSB AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

| 1 Associated MET Office | | Aeronautical Meteorological Station-Surat Thani, Southern East-Coast Meteorological Center, Thai Meteorological Department (TMD) | | |
|-------------------------|---|--|--|--|
| 2 | Hours of service MET Office outside hours | 2200-1500 NIL | | |
| 3 | Office responsible for TAF preparation Periods of validity | Supply TAF from Southern East-Coast Meteorological Center 24 HR | | |
| 4 | Type of landing forecast Interval of issuance | TREND 1 HR | | |
| 2.10.1g, contestitution | | Personal Consultation Tel: +667 744 1132 ext. 5514 | | |
| 6 | Flight documentation Language(s) used | NIL | | |
| 7 | Charts and other information available for briefing or consultation | S, U85, Daily Weather Forecast, satellite and radar images | | |
| 8 | Supplementary equipment available for providing information | Automated Weather Observation System (AWOS), Low Level Wind Shear Alert System (LLWAS) and Weather Radar | | |
| 9 | ATS units provided with information | Surat Thani TWR | | |
| 10 | Additional information (limitation of service, etc.) | NIL | | |

VTSB 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 |
| 04 | 044.09° | 3000x45 | PCN 65/F/C/X/T Concrete and asphalt | 090722.19N 0990733.72E | THR 20 FT TDZ 20 FT |
| 22 | 224.09 | 3000x45 | PCN 65/F/C/X/T Concrete and asphalt | 090832.55N 0990842.50E | THR 18 FT TDZ 18 FT |

| Slope of RWY-SWY | SWY dimensions (M) | CWY dimensions (M) | Strip dimensions (M) | OFZ | Remarks |
|------------------|--------------------|--------------------|----------------------|-----|---------|
| 7 | 8 | 9 | 10 | 11 | 12 |
| NIL | 60x45 | NIL | 3270x300 | NIL | NIL |
| NII | 60x45 | NII | 3270x300 | NII | NII |

VTSB AD 2.13 DECLARED DISTANCES

| RWY Designator | TORA (M) | TODA (M) | ASDA (M) | LDA (M) | Remarks |
|-------------------|-------------|-------------|-------------|------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 04 | 3000 | 3000 | 3060 | 3000 | NIL |
| 22 | 3000 | 3000 | 3060 | 3000 | NIL |

VTSB 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 |
| 04 | NIL | Green | PAPI Left 3° | NIL | - | 3000 M 60 M White, LIH | Red | - | - |
| 22 | CAT1 900M | Green | PAPI Left 3° | NIL | - | 3000 M 60 M White, LIH | Red | - | - |

VTSB AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

| 1 | ABN/IBN location, characteristics and hours of operation | ABN: At Tower Building, FLG W G EV 7 SEC IBN: NIL |
|---|--|--|
| 2 | LDI location and LGT Anemometer location and LGT | NIL |
| 3 | TWY edge and centre line lighting | EDGE: ALL TWY |
| 4 | Secondary power supply/switch-over time | Secondary power supply to all air field lighting (AFL) Switch-over time: 20 SEC |
| 5 | Remarks | Flares 2 HR PN |

VTSB 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 |

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VTSB AD 2.17 ATS AIRSPACE

| 1 | Designation and lateral limits | A circle of 5 NM radius centred on STN DVOR/DME (090746.24N 0990805.09E) |
|---|-----------------------------------|--|
| 2 | Vertical limits | 3000 FT/AGL |
| 3 | Airspace classification | D |
| 4 | ATS unit call sign Language(s) | Surat Thani Tower English, Thai |
| 5 | Transition altitude | 11000 FT |
| 6 | Remarks | NIL |

VTSB AD 2.18 ATS COMMUNICATION FACILITIES

| Service designation | Call sign | Frequency | Hours of operation | Remarks |
|------------------------|----------------------|--|--------------------|--|
| 1 | 2 | 3 | 4 | 5 |
| APP | Surat Thani Approach | 129.6 / 305.4 MHZ 123.35 / 240.0 MHZ | H24 | Primary Freq. Secondary Freq. |
| TWR | Surat Thani Tower | *121.5 MHZ 122.7 MHZ 274.5 MHZ *243.0 MHZ | H24 | *Emergency Freq |
| GND | Surat Thani Ground | 121.9 MHZ 275.8 MHZ | H24 | |
| G/A/G | Surat Thani Radio | 6577 KHZ 5490 KHZ | H24 | Primary Freq. (Upper Side-band) Secondary Freq. (Upper Side- band) |
| ATIS | | 125.95 MHZ | H24 | |

VTSB 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 |
| DVOR/DME | STN | 110.6 MHZ CH43X | H24 | 090746.24N 0990805.09E | | DVOR/DME restriction, due to mountainous terrain surround DVOR/DME station coverage orbit 40 NM as follow: RDL 001-070 DEG ALT should not below 1500 FT RDL 071-090 DEG ALT should not below 3500 FT RDL 091-150 DEG ALT should not below 5000 FT RDL 151-190 DEG ALT should not below 5000 FT RDL 151-190 DEG ALT should not below 1500 FT RDL 191-360 DEG ALT should not below 4000 FT RDL 227 DEG distance approximate 10-13 DME out of tolerance roughness and scalloping. |

| 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 |
| ILS CAT I LOC RWY22 | ISTN | 109.5 MHZ | H24 | 090715.04N 0990726.77E | | Designated operational coverage 18 NM ±10° and 10 NM ±35° of localizer course, no back course and voice feature, the antenna array is located on extended runway centre line at distance 305 M from THR of runway 04. |
| GP/DME | | 332.6 MHZ CH32X | H24 | 090821.76N 0990837.47E | | - Glide Path 3° - DME co-located with Glide Slope power output 100 watts Uni-directional |
| TACAN | SRT | CH79 | 2300-1100 | 0907.9N 09908.1E | | Military Facility |

VTSB AD 2.20 LOCAL AERODROME REGULATIONS

- 1. VFR REPORTING POINTS AND LOCAL PROCEDURES
- 1.1 Reporting points for VFR flight In order to expedite and maintain an orderly flow of air traffic into Surat Thani Airport, the procedures of the inbound traffic of VFR flight, conventional and prop-jet aircraft be set up as follow:
 - a) Aircraft entering to land from north of Surat Thani Airport, shall report over Chai Ya District, designated as CHARLIE point (0923.0N 9912.5E) which is approximately 15 NM on bearing 010° from SR NDB. When reaching CHARLIE the aircraft will be instructed to join aerodrome traffic pattern accordingly.
 - b) Aircraft entering to land from east of Surat Thani Airport, shall report over Surat Thani District, designated as SIERRA point (0908.0N 9920.0E) which is approximately 12 NM on bearing 090° from SR NDB. When reaching SIERRA the aircraft will be instructed to join aerodrome traffic pattern accordingly.
 - c) Aircraft entering to land from south of Surat Thani Airport, shall report over Ban Nasan District, designated as NOVEMBER point (0848.0N 9922.0E) which is approximately 25 NM on bearing 145° from SR NDB. When reaching NOVEMBER the aircraft will be instructed to join aerodrome traffic pattern accordingly.
 - d) Aircraft entering to land from west of Surat Thani Airport, shall report over Khirirat Nikhom District, designated as KILO point (0902.0N 09858.0E) which is approximately 14 NM on bearing 240° from SR NDB. When reaching KILO the aircraft will be instructed to join aerodrome traffic pattern accordingly.
- 1.2 Aerodrome traffic circuit

Using both sides of traffic circuit

- 1.3 Overhead approach pattern
 - a) Using runway 04 by left turn pattern
 - b) Using runway 22 by right turn pattern

VTSB AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VTSB AD 2.22 FLIGHT PROCEDURES

- 1. The Continuous Descent Operations (CDO) for arrivals into Surat Thani Airport
- 1.1 Introduction
- 1.1.1 CDO is an operation, enabled by airspace design, procedure design and ATC facilitation, in which an aircraft descends continuously, to the greatest possible extent, by employing minimum engine thrust, ideally in a low drag configuration, prior to Final Approach Fix / Final Approach Point.
- 1.1.2 Vertical profile of CDO aims to improve flight stability (minimal level-off), increase terrain safety, ensure environmental friendly procedures by reducing aircraft noise, fuel consumption and emissions, enhanced flight punctuality and predictability, as well as other

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economic benefits for flights into Surat Thani Airport.

- 1.2 Condition of Use
- 1.2.1 Conditions for Conducting a CDO
- 1.2.1.1 CDO application must be under surveillance environment.
- 1.2.1.2 CDO can be requested by pilot or initiated by ATC. Pilot should request CDO at least 5 minutes prior to reaching Top of Descent (TOD) for any type of approach.
 - Note: 1. There is limited benefit if CDO clearance is received at altitude lower than 10,000 FT.
 - **Note:** 2. In case of CDO procedure being impractical due to an emergency, weather condition, traffic situation or any other reasons, an alternate instruction will be issued by ATC, or requested by pilot.
- 1.2.2 Application of Other ATC Procedures
- 1.2.2.1 When conducting CDO, standard ATC procedures continue to apply. ATC may issue clearance to an intermediate approach level while facilitating a CDO profile.
- 1.2.2.2 In doing so, ATC shall endeavour to issue further descent clearance prior to the CDO flight reaching the last assigned altitude so as to prevent aircraft from levelling off.
- 1.2.3 Change of Runway-In-Use
- 1.2.3.1 In case of change on Runway-in-Use prior to aircraft reaching Final Approach Fix, i.e. from RWY22 to RWY04 CDO procedure shall be cancelled.
- 1.2.3.2 Pilot should then re-plan arrival route to the revised landing runway and inform ATC if the flight would still be able to meet all required speed/altitude restrictions.
- 1.2.4 Aircraft Type
 - CDO procedure is applicable for FMS capable aircraft.
- 1.2.5 Arrival Routes
 - CDO procedure is in place for all aircraft on G458 inbound from Bangkok to Surat Thani Airport.
- 1.2.6 Operations Time
 - CDO is available 24 hours.
- 1.2.7 Available Runway
 - CDO procedure is available for RWY22
- 1.2.8 Types of Approach
- 1.2.8.1 ILS or LOC RWY22
- 1.2.8.2 RNAV (GNSS) RWY22
- 1.2.9 Speed

When traffic permits, aircraft will operate at an optimum speed calculated by FMS, depending on aircraft type. The following speed guidance should be applicable in case of high traffic volume.

| Flight Status | Speed Range |
|---------------------------|-------------|
| Above 10 000 FT | 250-320 IAS |
| Below 10 000 FT | 220-250 IAS |
| Final Segment (up to 4NM) | 160-180 IAS |

1.2.10 Minimum Flight Altitude

Outside STN TMA, aircraft shall comply with altitude constraints of the CDO procedure. During CDO, minimum safety altitudes are identical to those within Instrument Approach Procedures requested.

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- 1.3 CDO Procedure
- 1.3.1 Before aircraft reaching TOD (approximately 150 NM from the airport), either pilot or ATC can initiate CDO using phraseologies described in para 1.4.
- 1.3.2 When all requirements for CDO are met and situation permits, CDO will commence.
- 1.3.3 Pilot shall operate aircraft FMS to plan optimal descent profile and report CDO execution Surat Thani commencing descent.
- 1.3.4 Aircraft should descend continuously on normal arrival route to STN TMA.
- 1.3.5 Longitudinal separation required will be at least 4 minutes (10 NM) between CDO traffic.
- 1.3.6 Operations without Vectoring
- 1.3.6.1 RNAV (GNSS) RWY17 CAT A, B Procedure

Aircraft Arriving on G458

- After passing, 30 NM from STN DVOR, altitude not lower than 8,000 FT., then proceed to MOTHA altitude not lower than 4,000 FT. and follow the ILS or LOC RWY22 procedure as published in AIP Thailand, or
- The pilot may request permission to fly directly to (IF); however, this would be an ATC's jurisdiction whether the request can
 be approved, depending on traffic conditions. In this case, the pilot shall fly directly to (IF) altitude 3,100 FT., and cross 30
 NM from STN DVOR, altitude not lower than 8,000 FT., following the ILS or LOC RWY22 procedure as published in AIP
 Thailand

1.3.6.2 RNAV (GNSS) RWY22 Procedure

Aircraft Arriving on G458

- After passing, 30 NM from STN DVOR, altitude not lower than 8,000 FT., then proceed to MOTHA altitude not lower than 4,000 FT. and follow the RNAV (GNSS) RWY22 procedure as published in AIP Thailand, or
- The pilot may request permission to fly directly to (IF); however, this would be an ATC's jurisdiction whether the request can
 be approved, depending on traffic conditions. In this case, the pilot shall fly directly to (IF) altitude 3,100 FT., and cross 30
 NM from STN DVOR, altitude not lower than 8,000 FT., following the RNAV (GNSS) RWY22 procedure as published in AIP
 Thailand
- 1.3.7 Operations under Vectoring
- 1.3.7.1 Pilot should receive CDO clearance at altitude not lower than 10,000 FT.
- 1.3.7.2 ATC shall provide vectoring guidance and track mile estimate to pilot.
- 1.3.8 Radio Communications Failure
- 1.3.8.1 In the event of radio communication failure, CDO flight will be terminated immediately.
- 1.3.8.2 Pilot is to apply radio failure procedures stated in AIP Thailand ENR 1.6-6 para 6
- 1.4 Phraseology
- 1.4.1 The following phraseology enables clear and concise communications between pilot and controller to maintain safety of CDO arrivals.
- 1.4.2 ATC-initiated CDO

"(aircraft call sign), (ATC unit), CDO AVAILABLE, DO YOU ACCEPT?"

- 1.4.3 Pilots response to ATC-initiated CDO
- 1.4.3.1 "(aircraft call sign), ACCEPT CDO"
- 1.4.3.2 "(aircraft call sign), NEGATIVE CDO"
- 1.4.4 Pilot-requested CDO

"(ATC Unit), (aircraft call sign), REQUEST CDO (type of approach) APPROACH"

1.4.5 Approval by Bangkok Area Control Centre

"(aircraft call sign), CLEARED DIRECT TO (point), CDO DESCEND [(level)or (altitude), QNH (number)]"

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- 1.4.6 Denial from Bangkok Area Control Centre
- 1.4.6.1 "(aircraft call sign), NEGATIVE CDO, DUE TO (reason)"
- 1.4.6.2 "(aircraft call sign), EXPECT CDO FROM SAMUI APPROACH"
- 1.4.7 Approval by Surat Approach Control Unit
- 1.4.7.1 "(aircraft call sign), DIRECT TO (point), DESCEND [(level) or (altitude), QNH (number)], CLEARED CDO (type of approach) APPROACH, REPORT ESTABLISHED"
- 1.4.7.2 "(aircraft call sign), DESCEND INITIALLY [(level) or (altitude), QNH (number)], CDO APPROVED"
- 1.4.8 When vectoring for CDO

"(aircraft call sign), VECTORING FOR CDO, FLY HEADING (number) DESCEND [(level) or (altitude), QNH (number)], TRACK MILE (number)"

- 1.4.9 CDO Cancellation
- 1.4.9.1 "(aircraft call sign), CANCEL CDO DUE TO (reason), (STOP) DESCEND [(level) or (altitude), QNH (number)]"
- 1.4.9.2 "(aircraft call sign), DUE TO (reason), CDO IS NOW TERMINATED"
- 1.4.10 Resuming CDO

"(aircraft call sign), RESUME CDO, DCT (point), DESCEND [(level) or (altitude), QNH (number)], CLEARED (type of approach) APPROACH"

1.4.11 Pilot report leaving

"(aircraft call sign), CDO LEAVING (level)"

1.4.12 Warning of aircraft below CDO Profile

"(aircraft call sign), BELOW CDO PROFILE, ALTITUDE SHOULD BE (altitude) OR ABOVE"

- 1.5 Information / Training
- 1.5.1 Each airline must ensure that, for each type of aircraft, pilots are aware of CDO performance requirements
- 1.5.2 Airlines are expected to define strategy to be adopted to drag-generating parts extension to stabilize aircraft in landing configuration at an altitude in compliance with flight safety, taking into account glide path at 3° in Final Approach.

VTSB AD 2.23 ADDITIONAL INFORMATION

- Royal Thai Air Force ASR/SSR Air-to-ground facilities operations located at Surat Thani Airport

Radio call sign : SURAT

APP/ARR freq : 134.75, 342.5, 382.4 and 123.6 MHZ

DEP freq : 134.1 and 335.5 MHZ

Cover range / height : ASR 70 NM / 40 000 FT SSR 200 NM / 100 000 FT

Hours of operations : Monday-Friday 0100-0900

Emission : ASR 500 KW, SSR 1.5 KW

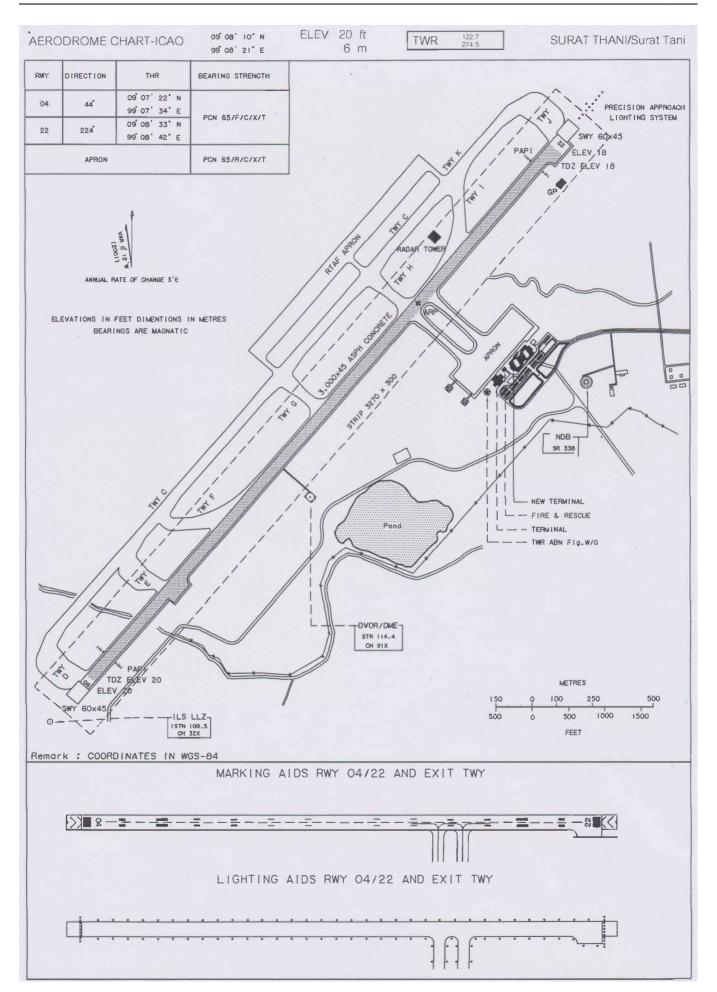
Remarks : Available for Military

- Windshear Alert System installed and operations at Aerodrome.
- BAK14 RAG installed on both side 400 M from Threshold of Runway 04/22
- Aircraft code letter C and over are not allowed to make 180 degree on runway for preventing runway pavement structural damage. Remark: The turn shall be made on the turnpad close to runway 22 and on runway 04 near taxiway E.

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VTSB AD 2.24 CHARTS RELATED TO AN AERODROME

| Chart name | Page |
|--|--------------------|
| Aerodrome Chart - ICAO | AD 2-VTSB-2-1 |
| Standard Departure Chart - Instrument (SID) - ICAO - RNAV RWY 04 - ADLAL1D EMVEL1D IDNAR1D LAMUL1D NIXET1D SEGRA1D TAVAT1D TOGIM1D | AD 2-VTSB-6-1 |
| Standard Departure Chart - Instrument (SID) - ICAO - RNAV RWY 04 - ADLAL1D EMVEL1D IDNAR1D LAMUL1D NIXET1D SEGRA1D TAVAT1D TOGIM1D (Tabular description) | AD 2-VTSB-6-2 |
| Standard Departure Chart - Instrument (SID) - ICAO - RNAV RWY 04 - ADLAL1D EMVEL1D IDNAR1D LAMUL1D NIXET1D SEGRA1D TAVAT1D TOGIM1D (Waypoint list table) | AD 2-VTSB-6-3 |
| Standard Departure Chart - Instrument (SID) - ICAO - RNAV RWY 22 - ADLAL1C EMVEL1C IDNAR1C LAMUL1C NIXET1C NIXET1X SEGRA1C TAVAT1C TOGIM1C | AD 2-VTSB-6-5 |
| Standard Departure Chart - Instrument (SID) - ICAO - RNAV RWY 22 - ADLAL1C EMVEL1C IDNAR1C LAMUL1C NIXET1C NIXET1X SEGRA1C TAVAT1C TOGIM1C (Tabular description 1) | AD 2-VTSB-6-6 |
| Standard Departure Chart - Instrument (SID) - ICAO - RNAV RWY 22 - ADLAL1C EMVEL1C IDNAR1C LAMUL1C NIXET1C NIXET1X SEGRA1C TAVAT1C TOGIM1C (Tabular description 2) | AD 2-VTSB-6-7 |
| Standard Departure Chart - Instrument (SID) - ICAO - RNAV RWY 22 - ADLAL1C EMVEL1C IDNAR1C LAMUL1C NIXET1C NIXET1X SEGRA1C TAVAT1C TOGIM1C (Waypoint list table) | AD 2-VTSB-6-8 |
| Standard Arrival Chart - Instrument (STAR) - ICAO - RNAV RWY 04 - ADLAL1B EMVEL1B IDNAR1B IKERA1B LAMUL1 SEGRA1B TAVAT1B TOGIM1B | B AD 2-VTSB-7-1 |
| Standard Arrival Chart - Instrument (STAR) - ICAO - RNAV RWY 04 - ADLAL1B EMVEL1B IDNAR1B IKERA1B LAMUL1 SEGRA1B TAVAT1B TOGIM1B (Tabular description) | B AD 2-VTSB-7-2 |
| Standard Arrival Chart - Instrument (STAR) - ICAO - RNAV RWY 04 - ADLAL1B EMVEL1B IDNAR1B IKERA1B LAMUL1 SEGRA1B TAVAT1B TOGIM1B (Waypoint list table) | B AD 2-VTSB-7-3 |
| Standard Arrival Chart - Instrument (STAR) - ICAO - RNAV RWY 22 - ADLAL1A EMVEL1A IDNAR1A IKERA1A LAMUL1 SEGRA1A TAVAT1A TOGIM1A | A AD 2-VTSB-7-5 |
| Standard Arrival Chart - Instrument (STAR) - ICAO - RNAV RWY 22 - ADLAL1A EMVEL1A IDNAR1A IKERA1A LAMUL1 SEGRA1A TAVAT1A TOGIM1A (Tabular description 1) | A AD 2-VTSB-7-6 |
| Standard Arrival Chart - Instrument (STAR) - ICAO - RNAV RWY 22 - ADLAL1A EMVEL1A IDNAR1A IKERA1A LAMUL1 SEGRA1A TAVAT1A TOGIM1A (Tabular description 2) | A AD 2-VTSB-7-7 |
| Standard Arrival Chart - Instrument (STAR) - ICAO - RNAV RWY 22 - ADLAL1A EMVEL1A IDNAR1A IKERA1A LAMUL1 SEGRA1A TAVAT1A TOGIM1A (Waypoint list table) | A AD 2-VTSB-7-8 |
| Instrument Approach Chart - ICAO - VOR RWY 04 | AD 2-VTSB-8-1 |
| Instrument Approach Chart - ICAO - VOR RWY 04 (Fix and point list table) | AD 2-VTSB-8-2 |
| Instrument Approach Chart - ICAO - VOR RWY 22 | AD 2-VTSB-8-3 |
| Instrument Approach Chart - ICAO - VOR RWY 22 (Fix and point list table) | AD 2-VTSB-8-4 |
| Instrument Approach Chart - ICAO - ILS or LOC y RWY 22 | AD 2-VTSB-8-5 |
| Instrument Approach Chart - ICAO - ILS or LOC y RWY 22 (Fix and point list table) | AD 2-VTSB-8-6 |
| Instrument Approach Chart - ICAO - ILS or LOC z RWY 22 | AD 2-VTSB-8-7 |
| Instrument Approach Chart - ICAO - ILS or LOC z RWY 22 (Tabular description) | AD 2-VTSB-8-8 |
| Instrument Approach Chart - ICAO - ILS or LOC z RWY 22 (Fix and point list table) | AD 2-VTSB-8-9 |
| Instrument Approach Chart - ICAO - RNAV (GNSS) RWY 04 | AD 2-VTSB-8-11 |
| Instrument Approach Chart - ICAO - RNAV (GNSS) RWY 04 (Tabular description) | AD 2-VTSB-8-12 |
| Instrument Approach Chart - ICAO - RNAV (GNSS) RWY 22 | AD 2-VTSB-8-13 |
| Instrument Approach Chart - ICAO - RNAV (GNSS) RWY 22 (Tabular description) | AD 2-VTSB-8-14 |

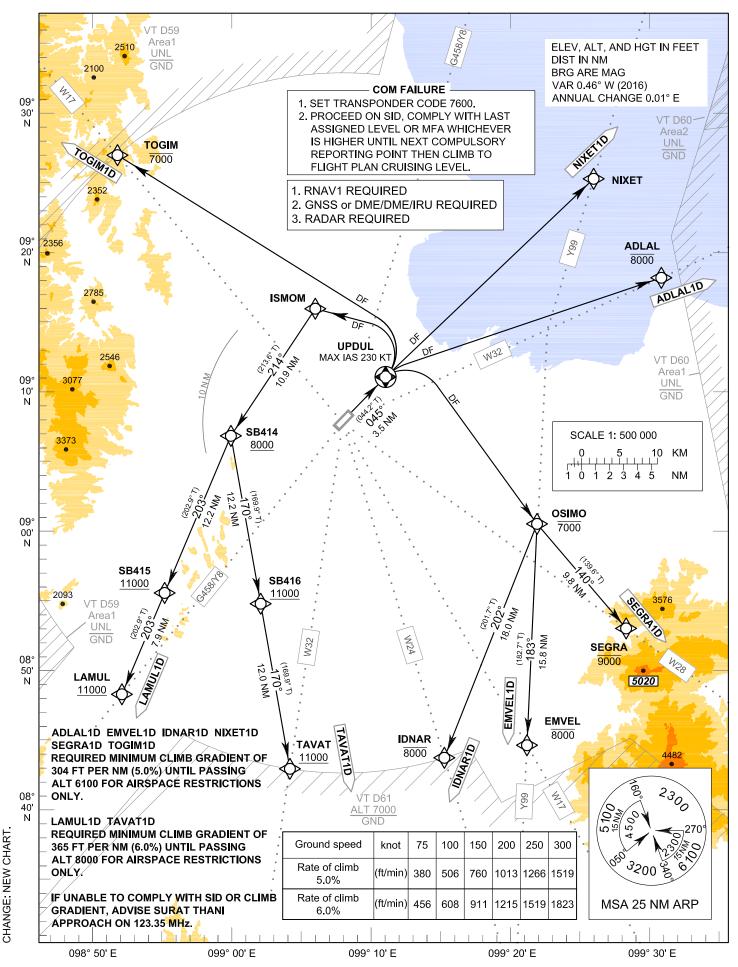




TRANSITION ALTITUDE 11000 FT APP: 123.35, 240.0 TWR: 122.7, 274.5 GND: 121.9, 275.8 ATIS: 125.95

SURAT THANI / Surat Thani (VTSB) RNAV RWY04

ADLAL1D EMVEL1D IDNAR1D LAMUL1D NIXET1D SEGRA1D TAVAT1D TOGIM1D



AD 2-VTSB-6-2 AIP 18 JUL 19 THAILAND

STANDARD DEPARTURE CHART-INSTRUMENT (SID) - ICAO

SURAT THANI / Surat Thani (VTSB) RNAV RWY04

ADLAL1D EMVEL1D IDNAR1D LAMUL1D NIXET1D SEGRA1D TAVAT1D TOGIM1D

TABULAR DESCRIPTION

| RNAV RWY | 704 | | | | | | | | | | |
|----------|------------|---------------------|---------|--------------|-----------|----------|-----------|----------|-------|------|--------------|
| Serial | Path | | | Course | Magnetic | Distance | Turn | Altitude | Speed | VPA/ | Navigation |
| Number | Descriptor | Waypoint Identifier | Flyover | ° M (° T) | Variation | (NM) | Direction | (FT) | (KT) | тсн | Specificatio |
| ADLAL1D | | | | , | | , , | | () | , , | | |
| 010 | _ | DER RWY04 | _ | _ | +0.44 | _ | - | _ | _ | _ | RNAV 1 |
| 020 | CF | UPDUL | Y | 045°(044.2°) | +0.44 | 3.5 | - | - | -230 | - | RNAV 1 |
| 030 | DF | ADLAL | - | - | +0.44 | _ | - | -8000 | - | - | RNAV 1 |
| EMVEL1D | <u> </u> | | | | | | | | | | |
| 010 | - | DER RWY04 | - | - | +0.44 | _ | - | - | _ | - | RNAV 1 |
| 020 | CF | UPDUL | Y | 045°(044.2°) | +0.44 | 3.5 | - | - | -230 | - | RNAV 1 |
| 030 | DF | OSIMO | - | - | +0.44 | - | R | -7000 | - | - | RNAV 1 |
| 040 | TF | EMVEL | - | 183°(182.7°) | +0.44 | 15.8 | - | -8000 | - | - | RNAV 1 |
| IDNAR1D | | | | | | | | | | | |
| 010 | - | DER RWY04 | - | - | +0.44 | - | - | - | - | - | RNAV 1 |
| 020 | CF | UPDUL | Y | 045°(044.2°) | +0.44 | 3.5 | - | - | -230 | - | RNAV 1 |
| 030 | DF | OSIMO | - | - | +0.44 | - | R | -7000 | - | - | RNAV 1 |
| 040 | TF | IDNAR | - | 202°(201.7°) | +0.44 | 18.0 | - | -8000 | - | - | RNAV 1 |
| LAMUL1D | | | ļ | | <u> </u> | | | | ļ | | |
| 010 | - | DER RWY04 | _ | - | +0.44 | _ | - | - | _ | - | RNAV 1 |
| 020 | CF | UPDUL | Y | 045°(044.2°) | +0.44 | 3.5 | - | - | -230 | - | RNAV 1 |
| 030 | DF | ISMOM | _ | - | +0.44 | _ | L | - | _ | _ | RNAV 1 |
| 040 | TF | SB414 | - | 214°(213.6°) | +0.44 | 10.9 | L | +8000 | - | - | RNAV 1 |
| 050 | TF | SB415 | - | 203°(202.9°) | +0.44 | 12.2 | - | +11000 | - | - | RNAV 1 |
| 060 | TF | LAMUL | _ | 203°(202.9°) | +0.44 | 7.9 | - | +11000 | _ | _ | RNAV 1 |
| NIXET1D | | - | | , , | | | | | | | |
| 010 | - | DER RWY04 | - | - | +0.44 | _ | - | - | - | - | RNAV 1 |
| 020 | CF | UPDUL | Y | 045°(044.2°) | +0.44 | 3.5 | - | - | -230 | - | RNAV 1 |
| 030 | DF | NIXET | - | - | +0.44 | _ | - | - | - | - | RNAV 1 |
| SEGRA1D | | | | | | | | | ļ | | |
| 010 | - | DER RWY04 | - | - | +0.44 | _ | - | - | _ | - | RNAV 1 |
| 020 | CF | UPDUL | Y | 045°(044.2°) | +0.44 | 3.5 | - | - | -230 | - | RNAV 1 |
| 030 | DF | OSIMO | - | - | +0.44 | - | - | -7000 | - | - | RNAV 1 |
| 040 | TF | SEGRA | _ | 140°(139.6°) | +0.44 | 9.8 | - | -9000 | - | - | RNAV 1 |
| TAVAT1D | L | | | | | | | | | l | |
| 010 | - | DER RWY04 | _ | - | +0.44 | _ | - | - | - | - | RNAV 1 |
| 020 | CF | UPDUL | Y | 045°(044.2°) | +0.44 | 3.5 | - | - | -230 | - | RNAV 1 |
| 030 | DF | ISMOM | - | - | +0.44 | - | L | - | - | - | RNAV 1 |
| 040 | TF | SB414 | - | 214°(213.6°) | +0.44 | 10.9 | L | +8000 | - | - | RNAV 1 |
| 050 | TF | SB416 | - | 170°(169.9°) | +0.44 | 12.2 | - | +11000 | - | - | RNAV 1 |
| 060 | TF | TAVAT | - | 170°(169.9°) | +0.44 | 12.0 | - | +11000 | - | - | RNAV 1 |
| TOGIM1D | | | | | 1 | ļ | ļ | ļ | Į. | J | <u> </u> |
| 010 | - | DER RWY04 | _ | - | +0.44 | - | - | - | - | - | RNAV 1 |
| 020 | CF | UPDUL | Y | 045°(044.2°) | +0.44 | 3.5 | - | - | -230 | - | RNAV 1 |
| 030 | DF | TOGIM | - | - | +0.44 | - | - | -7000 | - | - | RNAV 1 |

SURAT THANI / Surat Thani (VTSB) RNAV RWY04

ADLAL1D EMVEL1D IDNAR1D LAMUL1D NIXET1D SEGRA1D TAVAT1D TOGIM1D

WAYPOINT LIST

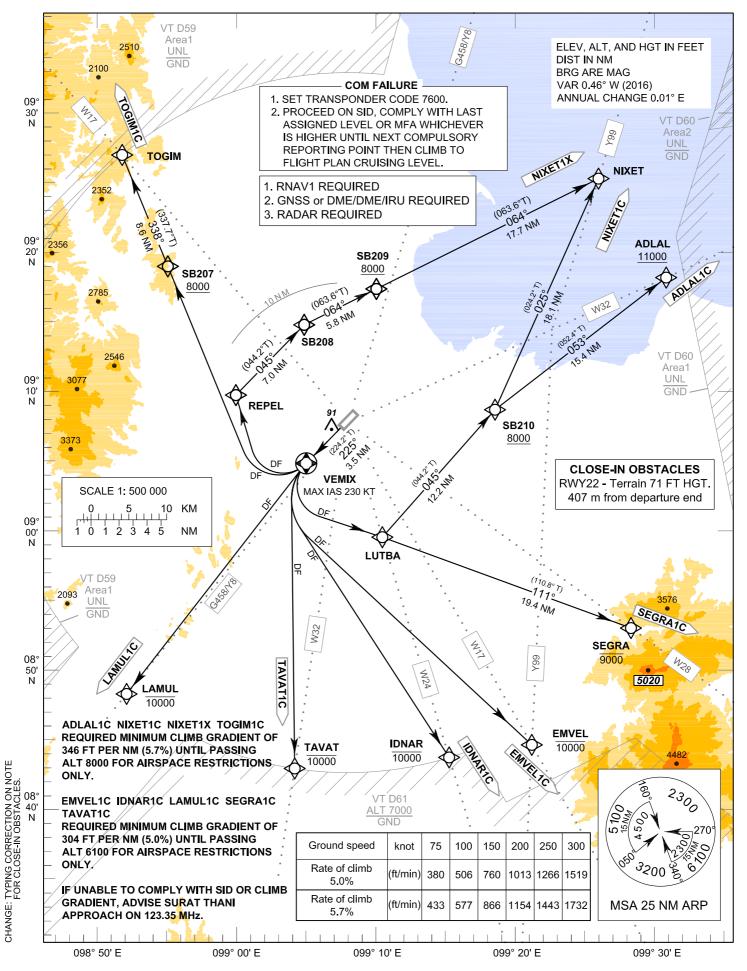
| NAV RWY04 | | | |
|---------------------|------------------|-------------------|---------------|
| Waypoint Identifier | Coor | dinates | Pronunciation |
| DER RWY04 | 09° 08' 32.55" N | 099° 08' 42.50" E | - |
| ADLAL | 09° 18' 10.00" N | 099° 31' 06.46" E | ADD - LAN |
| EMVEL | 08° 44' 37.58" N | 099° 21' 21.67" E | EM - VEL |
| IDNAR | 08° 43' 43.73" N | 099° 15' 23.83" E | ID - NHA |
| ISMOM | 09° 15' 57.90" N | 099° 06' 05.84" E | IS - MOM |
| LAMUL | 08° 48' 17.52" N | 098° 52' 08.16" E | LAH - MUL |
| NIXET | 09° 25' 17.11" N | 099° 26' 13.25" E | NIG - SET |
| OSIMO | 09° 00' 30.75" N | 099° 22' 06.09" E | O - SI - MO |
| SB414 | 09° 06' 50.46" N | 098° 59' 59.98" E | - |
| SB415 | 08° 55' 33.96" N | 098° 55' 13.09" E | - |
| SB416 | 08° 54' 47.57" N | 099° 02' 08.89" E | - |
| SEGRA | 08° 53' 00.22" N | 099° 28' 31.31" E | SAE - GRA |
| TAVAT | 08° 42' 56.59" N | 099° 04' 15.52" E | TA - VAT |
| TOGIM | 09° 26' 59.13" N | 098° 51' 48.08" E | TO - GIM |
| UPDUL | 09° 11' 03.87" N | 099° 11' 10.46" E | UP - DOON |



TRANSITION ALTITUDE 11000 FT

APP: 123.35, 240.0 TWR: 122.7, 274.5 GND: 121.9, 275.8 ATIS: 125.95 SURAT THANI / Surat Thani (VTSB) RNAV RWY22

ADLAL1C EMVEL1C IDNAR1C LAMUL1C NIXET1C NIXET1X SEGRA1C TAVAT1C TOGIM1C



SURAT THANI / Surat Thani (VTSB) RNAV RWY22

ADLAL1C EMVEL1C IDNAR1C LAMUL1C NIXET1C NIXET1X SEGRA1C TAVAT1C TOGIM1C

TABULAR DESCRIPTION (1)

| Serial | Path | | | Course | Magnetic | Distance | Turn | Turn Altitude Speed | | VPA/ | Navigation |
|---------|------------|---------------------|---------|--------------|-----------|----------|-----------|---------------------|------|------|---------------|
| Number | Descriptor | Waypoint Identifier | Flyover | ° M (° T) | Variation | (NM) | Direction | (FT) | (KT) | тсн | Specification |
| ADLAL1C | | | | . , | | ` ' | | . , | ` ′ | | |
| 010 | - | DER RWY22 | - | - | +0.44 | - | - | - | - | - | RNAV 1 |
| 020 | CF | VEMIX | Y | 225°(224.2°) | +0.44 | 3.5 | - | - | -230 | - | RNAV 1 |
| 030 | DF | LUTBA | - | - | +0.44 | - | L | - | - | - | RNAV 1 |
| 040 | TF | SB210 | - | 045°(044.2°) | +0.44 | 12.2 | R | +8000 | - | - | RNAV 1 |
| 050 | TF | ADLAL | - | 053°(052.4°) | +0.44 | 15.4 | - | +11000 | - | - | RNAV 1 |
| EMVEL1C | | | | | | | | l . | | | |
| 010 | - | DER RWY22 | - | - | +0.44 | - | - | - | - | - | RNAV 1 |
| 020 | CF | VEMIX | Y | 225°(224.2°) | +0.44 | 3.5 | - | - | -230 | - | RNAV 1 |
| 030 | DF | EMVEL | - | - | +0.44 | - | - | -10000 | - | - | RNAV 1 |
| IDNAR1C | | | | | | | | ! | | | |
| 010 | - | DER RWY22 | - | - | +0.44 | - | - | - | - | - | RNAV 1 |
| 020 | CF | VEMIX | Y | 225°(224.2°) | +0.44 | 3.5 | - | - | -230 | - | RNAV 1 |
| 030 | DF | IDNAR | - | - | +0.44 | - | - | -10000 | - | - | RNAV 1 |
| LAMUL1C | | | • | | | | | | | | |
| 010 | - | DER RWY22 | - | - | +0.44 | - | - | - | - | - | RNAV 1 |
| 020 | CF | VEMIX | Υ | 225°(224.2°) | +0.44 | 3.5 | - | - | -230 | - | RNAV 1 |
| 030 | DF | LAMUL | - | - | +0.44 | - | - | -10000 | - | - | RNAV 1 |
| NIXET1C | • | | | | | | | | | | |
| 010 | - | DER RWY22 | - | - | +0.44 | - | - | - | - | - | RNAV 1 |
| 020 | CF | VEMIX | Y | 225°(224.2°) | +0.44 | 3.5 | - | - | -230 | - | RNAV 1 |
| 030 | DF | LUTBA | - | - | +0.44 | - | L | - | - | - | RNAV 1 |
| 040 | TF | SB210 | - | 045°(044.2°) | +0.44 | 12.2 | L | +8000 | - | - | RNAV 1 |
| 050 | TF | NIXET | - | 025°(024.2°) | +0.44 | 18.1 | - | - | - | - | RNAV 1 |
| NIXET1X | | | | | | | • | | | | |
| 010 | - | DER RWY22 | - | i | +0.44 | - | - | - | - | - | RNAV 1 |
| 020 | CF | VEMIX | Υ | 225°(224.2°) | +0.44 | 3.5 | - | - | -230 | - | RNAV 1 |
| 030 | DF | REPEL | - | - | +0.44 | - | R | - | - | - | RNAV 1 |
| 040 | TF | SB208 | - | 045°(044.2°) | +0.44 | 7.0 | R | - | - | - | RNAV 1 |
| 050 | TF | SB209 | - | 064°(063.6°) | +0.44 | 5.8 | - | +8000 | - | - | RNAV 1 |
| 060 | TF | NIXET | - | 064°(063.6°) | +0.44 | 17.7 | - | - | - | - | RNAV 1 |

SURAT THANI / Surat Thani (VTSB) RNAV RWY22

ADLAL1C EMVEL1C IDNAR1C LAMUL1C NIXET1C NIXET1X SEGRA1C TAVAT1C TOGIM1C

TABULAR DESCRIPTION (2)

| RNAV RWY | 22 | | | | | | | | | | |
|------------------|-----------------|---------------------|---------|--------------|-----------------------|------------------|-------------------|------------------|---------------|-------------|-----------------------------|
| Serial Number | Path Descriptor | Waypoint Identifier | Flyover | Course | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KT) | VPA/ TCH | Navigation Specification |
| SEGRA1C | | | | | | | | | ı | | |
| 010 | - | DER RWY22 | - | - | +0.44 | - | - | - | - | - | RNAV 1 |
| 020 | CF | VEMIX | Υ | 225°(224.2°) | +0.44 | 3.5 | - | - | -230 | - | RNAV 1 |
| 030 | DF | LUTBA | - | - | +0.44 | - | L | - | - | - | RNAV 1 |
| 040 | TF | SEGRA | - | 111°(110.8°) | +0.44 | 19.4 | - | -9000 | - | - | RNAV 1 |
| TAVAT1C | | | | | | • | • | • | • | • | |
| 010 | - | DER RWY22 | - | - | +0.44 | - | - | - | - | - | RNAV 1 |
| 020 | CF | VEMIX | Υ | 225°(224.2°) | +0.44 | 3.5 | - | - | -230 | - | RNAV 1 |
| 030 | DF | TAVAT | - | - | +0.44 | - | - | -10000 | - | - | RNAV 1 |
| TOGIM1C | | | | | | | | | | | |
| 010 | - | DER RWY22 | - | - | +0.44 | - | - | - | - | - | RNAV 1 |
| 020 | CF | VEMIX | Υ | 225°(224.2°) | +0.44 | 3.5 | - | - | -230 | - | RNAV 1 |
| 030 | DF | SB207 | - | = | +0.44 | - | R | +8000 | - | - | RNAV 1 |
| 040 | TF | TOGIM | - | 338°(337.7°) | +0.44 | 8.6 | - | - | - | - | RNAV 1 |

AD 2-VTSB-6-8
AIP
18 JUL 19
THAILAND

STANDARD DEPARTURE CHART-INSTRUMENT (SID) - ICAO

SURAT THANI / Surat Thani (VTSB) RNAV RWY22

ADLAL1C EMVEL1C IDNAR1C LAMUL1C NIXET1C NIXET1X SEGRA1C TAVAT1C TOGIM1C

WAYPOINT LIST

| AV RWY22 | | | |
|---------------------|------------------|-------------------|---------------|
| Waypoint Identifier | Coor | dinates | Pronunciation |
| DER RWY22 | 09° 07' 22.19" N | 099° 07' 33.72" E | - |
| ADLAL | 09° 18' 10.00" N | 099° 31' 06.46" E | ADD - LAN |
| EMVEL | 08° 44' 37.58" N | 099° 21' 21.67" E | EM - VEL |
| IDNAR | 08° 43' 43.73" N | 099° 15' 23.83" E | ID - NHA |
| LAMUL | 08° 48' 17.52" N | 098° 52' 08.16" E | LAH - MUL |
| LUTBA | 08° 59' 56.82" N | 099° 10' 10.29" E | LUT - BA |
| NIXET | 09° 25' 17.11" N | 099° 26' 13.25" E | NIG - SET |
| REPEL | 09° 09' 44.80" N | 099° 00' 01.21" E | RAE - PEL |
| SB207 | 09° 18' 57.33" N | 098° 55' 06.76" E | - |
| SB208 | 09° 14' 47.53" N | 099° 04' 57.05" E | - |
| SB209 | 09° 17' 21.94" N | 099° 10' 09.99" E | - |
| SB210 | 09° 08' 41.82" N | 099° 18' 43.70" E | - |
| SEGRA | 08° 53' 00.22" N | 099° 28' 31.31" E | SAE - GRA |
| TAVAT | 08° 42' 56.59" N | 099° 04' 15.52" E | TA - VAT |
| TOGIM | 09° 26' 59.13" N | 098° 51' 48.08" E | TO - GIM |
| VEMIX | 09° 04' 50.85" N | 099° 05' 05.81" E | VE - MIX |

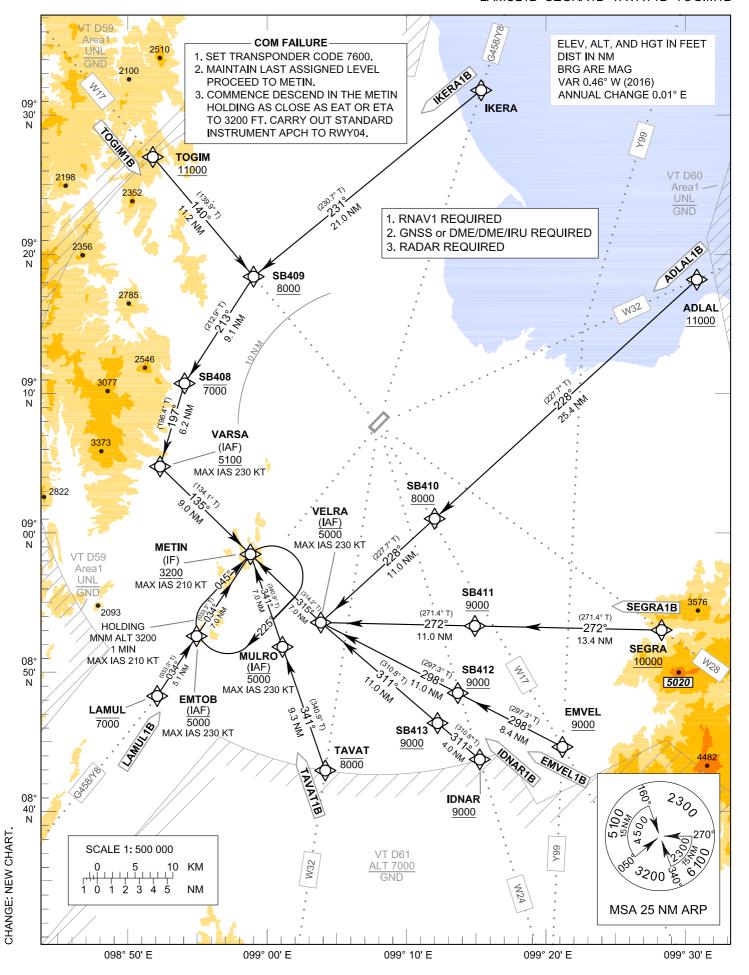
STANDARD ARRIVAL CHART-INSTRUMENT (STAR) - ICAO

TRANSITION ALTITUDE | APP : 123.35 , 240.0 11000 FT | TWR : 122.7 , 274.5 GND : 121.9 , 275.8

ATIS

SURAT THANI / Surat Thani (VTSB) RNAV RWY04

│ ADLAL1B EMVEL1B IDNAR1B IKERA1B LAMUL1B SEGRA1B TAVAT1B TOGIM1B



AD 2-VTSB-7-2 AIP
18 JUL 19 THAILAND

STANDARD ARRIVAL CHART-INSTRUMENT (STAR) - ICAO

SURAT THANI / Surat Thani (VTSB) RNAV RWY04

ADLAL1B EMVEL1B IDNAR1B IKERA1B LAMUL1B SEGRA1B TAVAT1B TOGIM1B

TABULAR DESCRIPTION

| Carial | Deth | | | Course | Mannatia | Distance | Turn | Altitude | S | VPA/ | Nevinetien |
|------------------|--------------------|---------------------|---------|--------------|-----------------------|----------|-----------|----------|---------------|------|-----------------------------|
| Serial Number | Path Descriptor | Waypoint Identifier | Flyover | ° M (° T) | Magnetic Variation | (NM) | Direction | (FT) | Speed (KT) | TCH | Navigation Specification |
| ADLAL1B | ! | | ļ | | | ! | | | | | |
| 010 | IF | ADLAL | - | - | +0.44 | - | - | +11000 | - | - | RNAV 1 |
| 020 | TF | SB410 | - | 228°(227.7°) | +0.44 | 25.4 | - | +8000 | - | - | RNAV 1 |
| 030 | TF | VELRA (IAF) | - | 228°(227.7°) | +0.44 | 11.0 | R | -5000 | -230 | - | RNAV 1 |
| 040 | TF | METIN (IF) | - | 315°(314.2°) | +0.44 | 7.0 | - | +3200 | -210 | - | RNAV 1 |
| EMVEL1B | | | | | • | | | | | | |
| 010 | IF | EMVEL | - | - | +0.44 | - | - | +9000 | - | - | RNAV 1 |
| 020 | TF | SB412 | - | 298°(297.3°) | +0.44 | 8.4 | - | +9000 | - | - | RNAV 1 |
| 030 | TF | VELRA (IAF) | - | 298°(297.3°) | +0.44 | 11.0 | R | -5000 | -230 | - | RNAV 1 |
| 040 | TF | METIN (IF) | - | 315°(314.2°) | +0.44 | 7.0 | - | +3200 | -210 | - | RNAV 1 |
| IDNAR1B | | | | | | ļ | | ı | ļ | | |
| 010 | IF | IDNAR | - | - | +0.44 | - | - | +9000 | - | - | RNAV 1 |
| 020 | TF | SB413 | - | 311°(310.8°) | +0.44 | 4.0 | - | +9000 | - | - | RNAV 1 |
| 030 | TF | VELRA (IAF) | - | 311°(310.8°) | +0.44 | 11.0 | R | -5000 | -230 | - | RNAV 1 |
| 040 | TF | METIN (IF) | - | 315°(314.2°) | +0.44 | 7.0 | - | +3200 | -210 | - | RNAV 1 |
| IKERA1B | ' | | - | | | | | | ! | | |
| 010 | IF | IKERA | - | - | +0.44 | - | - | - | - | - | RNAV 1 |
| 020 | TF | SB409 | - | 231°(230.7°) | +0.44 | 21.0 | L | +8000 | - | - | RNAV 1 |
| 030 | TF | SB408 | - | 213°(212.9°) | +0.44 | 9.1 | L | -7000 | - | - | RNAV 1 |
| 040 | TF | VARSA (IAF) | - | 197°(196.4°) | +0.44 | 6.2 | L | +5100 | -230 | - | RNAV 1 |
| 050 | TF | METIN (IF) | - | 135°(134.1°) | +0.44 | 9.0 | - | +3200 | -210 | - | RNAV 1 |
| LAMUL1B | | | • | | | | | • | • | | |
| 010 | IF | LAMUL | - | - | +0.44 | - | - | -7000 | - | - | RNAV 1 |
| 020 | TF | EMTOB (IAF) | - | 034°(033.3°) | +0.44 | 5.1 | - | -5000 | -230 | - | RNAV 1 |
| 030 | TF | METIN (IF) | - | 034°(033.3°) | +0.44 | 7.0 | - | +3200 | -210 | - | RNAV 1 |
| SEGRA1B | | | • | | | | | • | • | | |
| 010 | IF | SEGRA | - | - | +0.44 | - | - | +10000 | - | - | RNAV 1 |
| 020 | TF | SB411 | - | 272°(271.4°) | +0.44 | 13.4 | - | +9000 | - | - | RNAV 1 |
| 030 | TF | VELRA (IAF) | - | 272°(271.4°) | +0.44 | 11.0 | R | -5000 | -230 | - | RNAV 1 |
| 040 | TF | METIN (IF) | - | 315°(314.2°) | +0.44 | 7.0 | - | +3200 | -210 | - | RNAV 1 |
| TAVAT1B | | | | | | | | | | | |
| 010 | IF | TAVAT | - | ı | +0.44 | - | 1 | -8000 | - | 1 | RNAV 1 |
| 020 | TF | MULRO (IAF) | - | 341°(340.9°) | +0.44 | 9.3 | - | -5000 | -230 | - | RNAV 1 |
| 030 | TF | METIN (IF) | - | 341°(340.9°) | +0.44 | 7.0 | - | +3200 | -210 | - | RNAV 1 |
| TOGIM1B | | | | | | | | | | | |
| 010 | IF | TOGIM | - | - | +0.44 | - | - | +11000 | - | - | RNAV 1 |
| 020 | TF | SB409 | - | 140°(139.9°) | +0.44 | 11.2 | R | +8000 | - | - | RNAV 1 |
| 030 | TF | SB408 | - | 213°(212.9°) | +0.44 | 9.1 | L | -7000 | - | - | RNAV 1 |
| 040 | TF | VARSA (IAF) | - | 197°(196.4°) | +0.44 | 6.2 | L | +5100 | -230 | - | RNAV 1 |
| 050 | TF | METIN (IF) | - | 135°(134.1°) | +0.44 | 9.0 | - | +3200 | -210 | - | RNAV 1 |

STANDARD ARRIVAL CHART-INSTRUMENT (STAR) - ICAO

SURAT THANI / Surat Thani (VTSB) RNAV RWY04

ADLAL1B EMVEL1B IDNAR1B IKERA1B LAMUL1B SEGRA1B TAVAT1B TOGIM1B

WAYPOINT LIST

| NAV RWY04 | | | |
|---------------------|------------------|-------------------|---------------|
| Waypoint Identifier | Coor | dinates | Pronunciation |
| ADLAL | 09° 18' 10.00" N | 099° 31' 06.46" E | ADD - LAN |
| ЕМТОВ | 08° 52' 35.41" N | 098° 54' 58.65" E | EM - TOB |
| EMVEL | 08° 44' 37.58" N | 099° 21' 21.67" E | EM - VEL |
| IDNAR | 08° 43' 43.73" N | 099° 15' 23.83" E | ID - NHA |
| IKERA | 09° 31' 46.39" N | 099° 15' 32.00" E | I-KEH-RA |
| LAMUL | 08° 48' 17.52" N | 098° 52' 08.16" E | LAH - MUL |
| METIN | 08° 58' 27.96" N | 098° 58' 51.85" E | ME - THIN |
| MULRO | 08° 51' 49.15" N | 099° 01' 10.50" E | MUN - RO |
| SB408 | 09° 10' 43.80" N | 098° 54' 06.20" E | - |
| SB409 | 09° 18' 23.84" N | 098° 59' 05.06" E | - |
| SB410 | 09° 01' 00.81" N | 099° 12' 09.07" E | - |
| SB411 | 08° 53' 18.94" N | 099° 15' 02.90" E | - |
| SB412 | 08° 48' 30.09" N | 099° 13' 48.86" E | - |
| SB413 | 08° 46' 20.78" N | 099° 12' 21.01" E | - |
| SEGRA | 08° 53' 00.22" N | 099° 28' 31.31" E | SAE - GRA |
| TAVAT | 08° 42' 56.59" N | 099° 04' 15.52" E | TA - VAT |
| TOGIM | 09° 26' 59.13" N | 098° 51' 48.08" E | TO - GIM |
| VARSA | 09° 04' 45.80" N | 098° 52' 20.21" E | VA - SA |
| VELRA | 08° 53' 34.01" N | 099° 03' 56.30" E | VEL - RA |

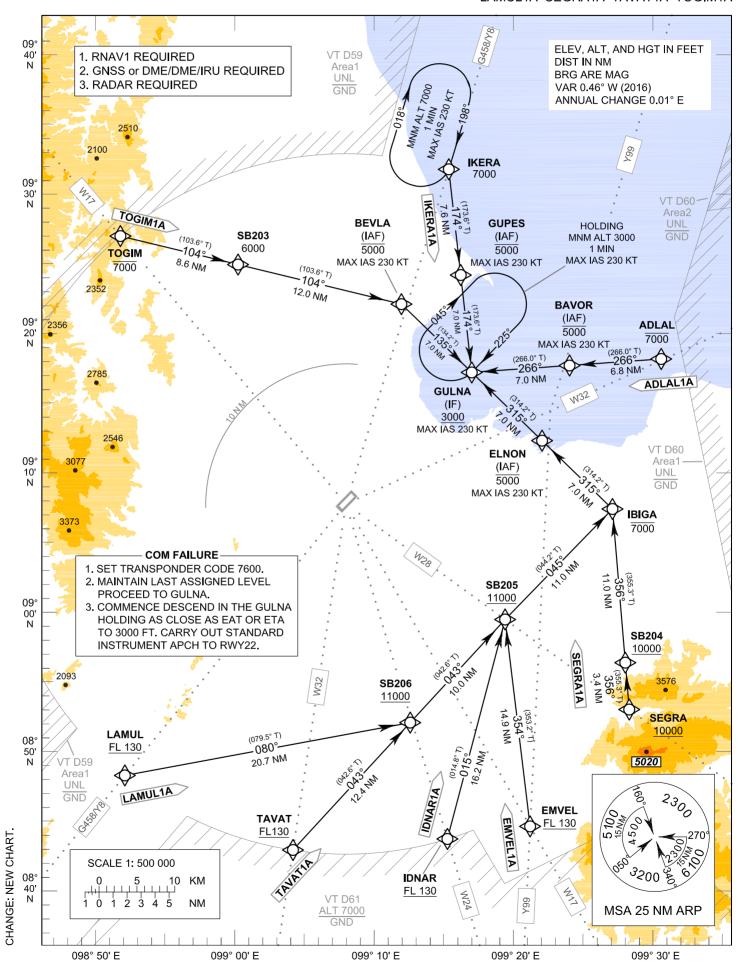


STANDARD ARRIVAL CHART-INSTRUMENT (STAR) - ICAO

TRANSITION ALTITUDE 11000 FT APP: 123.35, 240.0 TWR: 122.7, 274.5 GND: 121.9, 275.8 ATIS: 125.95

SURAT THANI / Surat Thani (VTSB) RNAV RWY22

ADLAL1A EMVEL1A IDNAR1A IKERA1A LAMUL1A SEGRA1A TAVAT1A TOGIM1A



AD 2-VTSB-7-6
18 JUL 19
THAILAND

STANDARD ARRIVAL CHART-INSTRUMENT (STAR) - ICAO

SURAT THANI / Surat Thani (VTSB) RNAV RWY22

ADLAL1A EMVEL1A IDNAR1A IKERA1A LAMUL1A SEGRA1A TAVAT1A TOGIM1A

TABULAR DESCRIPTION (1)

| Serial | Path | | | Course | Magnetic | Distance | Turn | Altitude | Speed | VPA/ | Navigation |
|---------|------------|---------------------|---------|--------------|-----------|----------|-----------|----------|-------|------|---------------|
| Number | Descriptor | Waypoint Identifier | Flyover | ° M (° T) | Variation | (NM) | Direction | (FT) | (KT) | тсн | Specification |
| ADLAL1A | | | | | | | | | | | |
| 010 | IF | ADLAL | - | - | +0.44 | - | - | -7000 | - | - | RNAV 1 |
| 020 | TF | BAVOR (IAF) | - | 266°(266.0°) | +0.44 | 6.8 | - | -5000 | -230 | - | RNAV 1 |
| 030 | TF | GULNA (IF) | - | 266°(266.0°) | +0.44 | 7.0 | - | +3000 | -230 | - | RNAV 1 |
| EMVEL1A | ' | | • | | • | • | • | | | | |
| 010 | IF | EMVEL | - | - | +0.44 | - | - | +FL130 | - | - | RNAV 1 |
| 020 | TF | SB205 | - | 354°(353.2°) | +0.44 | 14.9 | R | +11000 | - | - | RNAV 1 |
| 030 | TF | IBIGA | - | 045°(044.2°) | +0.44 | 11.0 | L | -7000 | - | - | RNAV 1 |
| 040 | TF | ELNON (IAF) | - | 315°(314.2°) | +0.44 | 7.0 | - | -5000 | -230 | - | RNAV 1 |
| 050 | TF | GULNA (IF) | - | 315°(314.2°) | +0.44 | 7.0 | - | +3000 | -230 | - | RNAV 1 |
| IDNAR1A | | | • | | | • | • | • | • | | |
| 010 | IF | IDNAR | - | - | +0.44 | - | - | +FL130 | - | - | RNAV 1 |
| 020 | TF | SB205 | - | 015°(014.8°) | +0.44 | 16.2 | R | +11000 | - | - | RNAV 1 |
| 030 | TF | IBIGA | - | 045°(044.2°) | +0.44 | 11.0 | L | -7000 | - | - | RNAV 1 |
| 040 | TF | ELNON (IAF) | - | 315°(314.2°) | +0.44 | 7.0 | - | -5000 | -230 | - | RNAV 1 |
| 050 | TF | GULNA (IF) | - | 315°(314.2°) | +0.44 | 7.0 | - | +3000 | -230 | - | RNAV 1 |
| IKERA1A | | | | | | | | | | | |
| 010 | IF | IKERA | - | - | +0.44 | - | - | 7000 | - | - | RNAV 1 |
| 020 | TF | GUPES (IAF) | - | 174°(173.6°) | +0.44 | 7.6 | - | -5000 | -230 | - | RNAV 1 |
| 030 | TF | GULNA (IF) | - | 174°(173.6°) | +0.44 | 7.0 | - | +3000 | -230 | - | RNAV 1 |
| LAMUL1A | | | | | | | | | | | |
| 010 | IF | LAMUL | - | - | +0.44 | - | - | +FL130 | - | - | RNAV 1 |
| 020 | TF | SB206 | - | 080°(079.5°) | +0.44 | 20.7 | L | +11000 | - | - | RNAV 1 |
| 030 | TF | SB205 | - | 043°(042.6°) | +0.44 | 10.0 | R | +11000 | - | - | RNAV 1 |
| 040 | TF | IBIGA | - | 045°(044.2°) | +0.44 | 11.0 | L | -7000 | - | - | RNAV 1 |
| 050 | TF | ELNON (IAF) | - | 315°(314.2°) | +0.44 | 7.0 | - | -5000 | -230 | - | RNAV 1 |
| 060 | TF | GULNA (IF) | - | 315°(314.2°) | +0.44 | 7.0 | - | +3000 | -230 | - | RNAV 1 |

STANDARD ARRIVAL CHART-INSTRUMENT (STAR) - ICAO

SURAT THANI / Surat Thani (VTSB) RNAV RWY22

ADLAL1A EMVEL1A IDNAR1A IKERA1A LAMUL1A SEGRA1A TAVAT1A TOGIM1A

TABULAR DESCRIPTION (2)

| Serial | Path | Waypoint Identifier | Flyover | Course | Magnetic | Distance | Turn | Altitude | Speed | VPA/ | Navigation |
|---------|------------|---------------------|---------|--------------|-----------|----------|-----------|----------|-------|------|---------------|
| Number | Descriptor | Waypoint identifier | liyovei | ° M (° T) | Variation | (NM) | Direction | (FT) | (KT) | тсн | Specification |
| SEGRA1A | | | | | | | | | | | |
| 010 | IF | SEGRA | - | - | +0.44 | - | - | +10000 | - | - | RNAV 1 |
| 020 | TF | SB204 | - | 356°(355.3°) | +0.44 | 3.4 | - | +10000 | - | - | RNAV 1 |
| 030 | TF | IBIGA | - | 356°(355.3°) | +0.44 | 11.0 | L | -7000 | - | - | RNAV 1 |
| 040 | TF | ELNON (IAF) | - | 315°(314.2°) | +0.44 | 7.0 | - | -5000 | -230 | - | RNAV 1 |
| 050 | TF | GULNA (IF) | - | 315°(314.2°) | +0.44 | 7.0 | - | +3000 | -230 | - | RNAV 1 |
| TAVAT1A | | | | | | | | | | | |
| 010 | IF | TAVAT | - | = | +0.44 | - | - | +FL130 | - | - | RNAV 1 |
| 020 | TF | SB206 | - | 043°(042.6°) | +0.44 | 12.4 | - | +11000 | - | - | RNAV 1 |
| 030 | TF | SB205 | - | 043°(042.6°) | +0.44 | 10.0 | R | +11000 | - | - | RNAV 1 |
| 040 | TF | IBIGA | - | 045°(044.2°) | +0.44 | 11.0 | L | -7000 | - | - | RNAV 1 |
| 050 | TF | ELNON (IAF) | - | 315°(314.2°) | +0.44 | 7.0 | - | -5000 | -230 | - | RNAV 1 |
| 060 | TF | GULNA (IF) | - | 315°(314.2°) | +0.44 | 7.0 | - | +3000 | -230 | - | RNAV 1 |
| TOGIM1A | | | | | | • | • | • | | | |
| 010 | IF | TOGIM | - | - | +0.44 | - | - | -7000 | - | - | RNAV 1 |
| 020 | TF | SB203 | - | 104°(103.6°) | +0.44 | 8.6 | - | 6000 | - | - | RNAV 1 |
| 030 | TF | BEVLA (IAF) | - | 104°(103.6°) | +0.44 | 12.0 | R | -5000 | -230 | - | RNAV 1 |
| 040 | TF | GULNA (IF) | - | 135°(134.2°) | +0.44 | 7.0 | - | +3000 | -230 | - | RNAV 1 |

AD 2-VTSB-7-8
18 JUL 19
THAILAND

STANDARD ARRIVAL CHART-INSTRUMENT (STAR) - ICAO

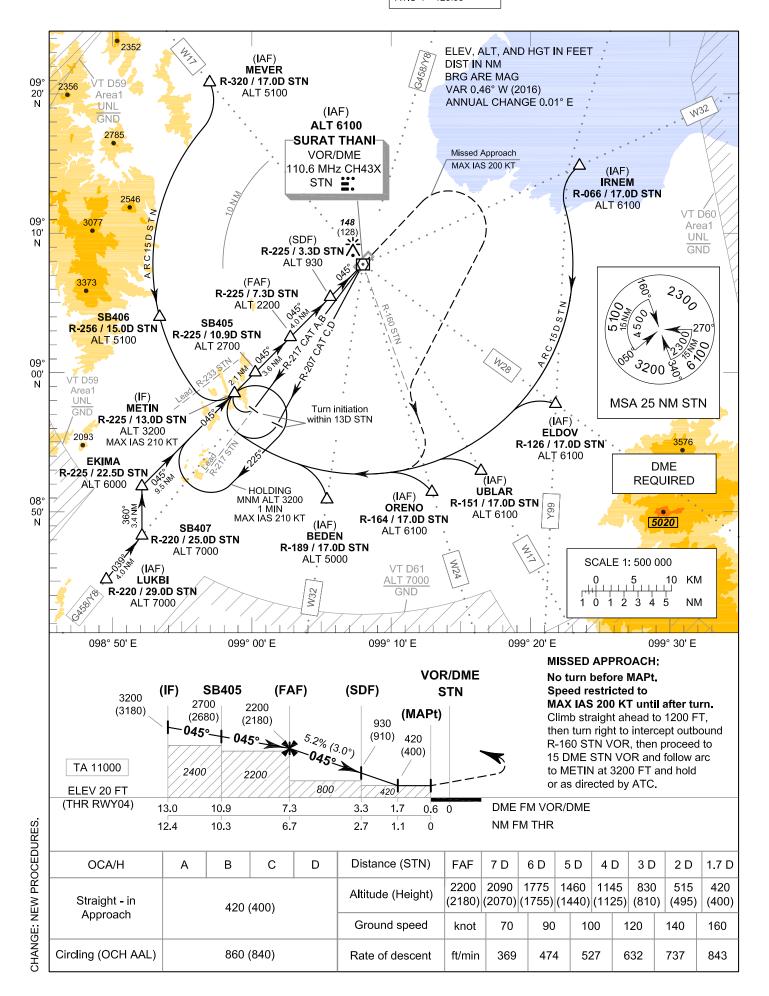
SURAT THANI / Surat Thani (VTSB) RNAV RWY22

ADLAL1A EMVEL1A IDNAR1A IKERA1A LAMUL1A SEGRA1A TAVAT1A TOGIM1A

WAYPOINT LIST

| RNAV RWY22 | | | |
|---------------------|------------------|-------------------|---------------|
| | T | | |
| Waypoint Identifier | Coord | dinates | Pronunciation |
| ADLAL | 09° 18' 10.00" N | 099° 31' 06.46" E | ADD - LAN |
| BAVOR | 09° 17' 41.42" N | 099° 24' 14.48" E | BA - VER |
| BEVLA | 09° 22' 06.23" N | 099° 12' 06.12" E | BAVE - LA |
| ELNON | 09° 12' 17.88" N | 099° 22' 15.18" E | EL - NON |
| EMVEL | 08° 44' 37.58" N | 099° 21' 21.67" E | EM - VEL |
| GULNA | 09° 17' 12.09" N | 099° 17' 10.72" E | GUN - NA |
| GUPES | 09° 24' 11.43" N | 099° 16' 23.39" E | GU - PES |
| IBIGA | 09° 07' 23.59" N | 099° 27' 19.50" E | I-BI-GA |
| IDNAR | 08° 43' 43.73" N | 099° 15' 23.83" E | ID - NHA |
| IKERA | 09° 31' 46.39" N | 099° 15' 32.00" E | I-KEH-RA |
| LAMUL | 08° 48' 17.52" N | 098° 52' 08.16" E | LAH - MUL |
| SB203 | 09° 24' 56.69" N | 099° 00' 17.92" E | - |
| SB204 | 08° 56' 22.76" N | 099° 28' 14.47" E | - |
| SB205 | 08° 59' 28.43" N | 099° 19' 34.44" E | - |
| SB206 | 08° 52' 05.20" N | 099° 12' 43.56" E | - |
| SEGRA | 08° 53' 00.22" N | 099° 28' 31.31" E | SAE - GRA |
| TAVAT | 08° 42' 56.59" N | 099° 04' 15.52" E | TA - VAT |
| TOGIM | 09° 26' 59.13" N | 098° 51' 48.08" E | TO - GIM |

AERODROME ELEV 20 FT HEIGHTS RELATED TO THR RWY04 - ELEV 20 FT APP : 123.35 , 240.0 TWR : 122.7 , 274.5 GND : 121.9 , 275.8 ATIS : 125.95 SURAT THANI / Surat Thani (VTSB)
VOR RWY04



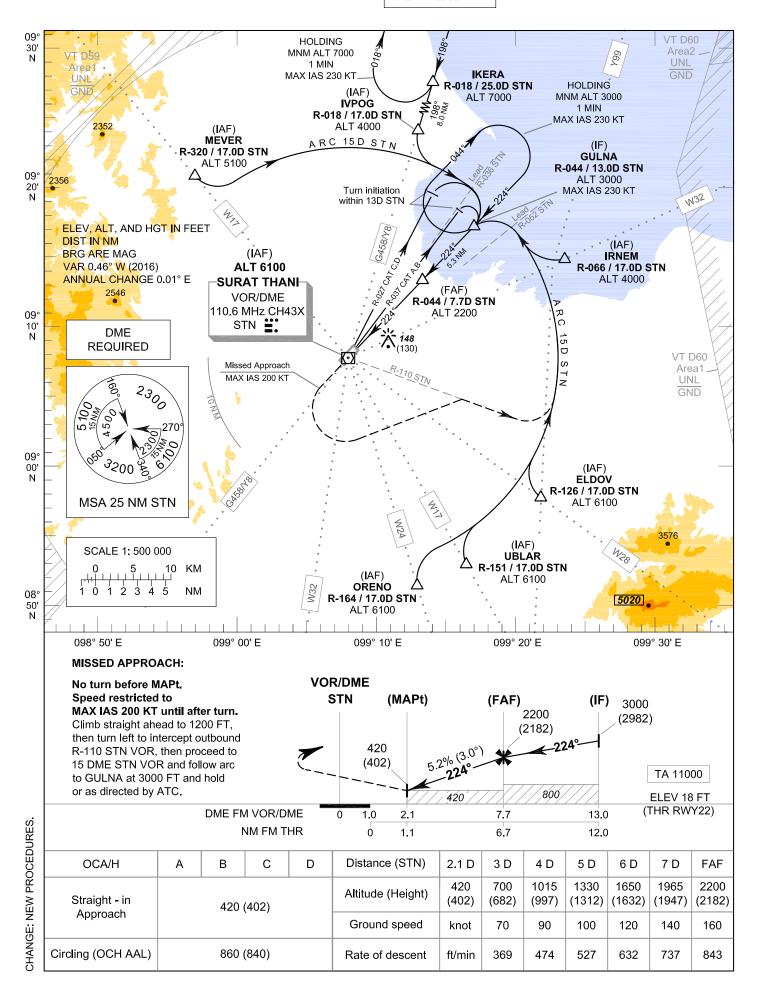
AERODROME ELEV 20 FT HEIGHTS RELATED TO THR RWY04 - ELEV 20 FT

SURAT THANI / Surat Thani (VTSB) VOR RWY04

| Fix | c / Point | Coord | linates | Pronunciation |
|-------------|-------------------|------------------|-------------------|---------------|
| MEVER (IAF) | R-320 / 17.0D STN | 09° 20' 50.29" N | 098° 57' 00.92" E | ME - VER |
| SB406 | R-256 / 15.0D STN | 09° 03' 59.75" N | 098° 53' 24.33" E | - |
| LUKBI (IAF) | R-220 / 29.0D STN | 08° 45' 08.58" N | 098° 49' 33.67" E | LAK - BIE |
| SB407 | R-220 / 25.0D STN | 08° 48' 17.52" N | 098° 52' 08.16" E | - |
| EKIMA | R-225 / 22.5D STN | 08° 51' 39.61" N | 098° 52' 07.63" E | EH - KI - MA |
| BEDEN (IAF) | R-189 / 17.0D STN | 08° 50' 53.29" N | 099° 05' 28.92" E | BEH - DEN |
| ORENO (IAF) | R-164 / 17.0D STN | 08° 51' 25.35" N | 099° 13' 03.54" E | O - RAE - NO |
| UBLAR (IAF) | R-151 / 17.0D STN | 08° 52' 56.23" N | 099° 16' 36.06" E | AB - BLA |
| ELDOV (IAF) | R-126 / 17.0D STN | 08° 57' 43.87" N | 099° 21' 59.10" E | EL - DOV |
| IRNEM (IAF) | R-066 / 17.0D STN | 09° 14' 50.40" N | 099° 23' 43.92" E | ER - NEM |
| METIN (IF) | R-225 / 13.0D STN | 08° 58' 27.96" N | 098° 58' 51.85" E | ME - THIN |
| SB405 | R-225 / 10.9D STN | 08° 59' 58.16" N | 099° 00' 21.18" E | - |
| FAF | R-225 / 7.3D STN | 09° 02' 30.77" N | 099° 02' 52.38" E | - |
| SDF | R-225 / 3.3D STN | 09° 05' 22.53" N | 099° 05' 42.61" E | - |
| MAPt | R-225 / 0.6D STN | 09° 07' 18.47" N | 099° 07' 37.55" E | - |
| VOR (IAF) | STN | 09° 07' 46.24" N | 099° 08' 05.09" E | - |

AERODROME ELEV 20 FT HEIGHTS RELATED TO THR RWY22 - ELEV 18 FT APP: 123.35, 240.0 TWR: 122.7, 274.5 GND: 121.9, 275.8 ATIS: 125.95 SURAT THANI / Surat Thani (VTSB)

VOR RWY22



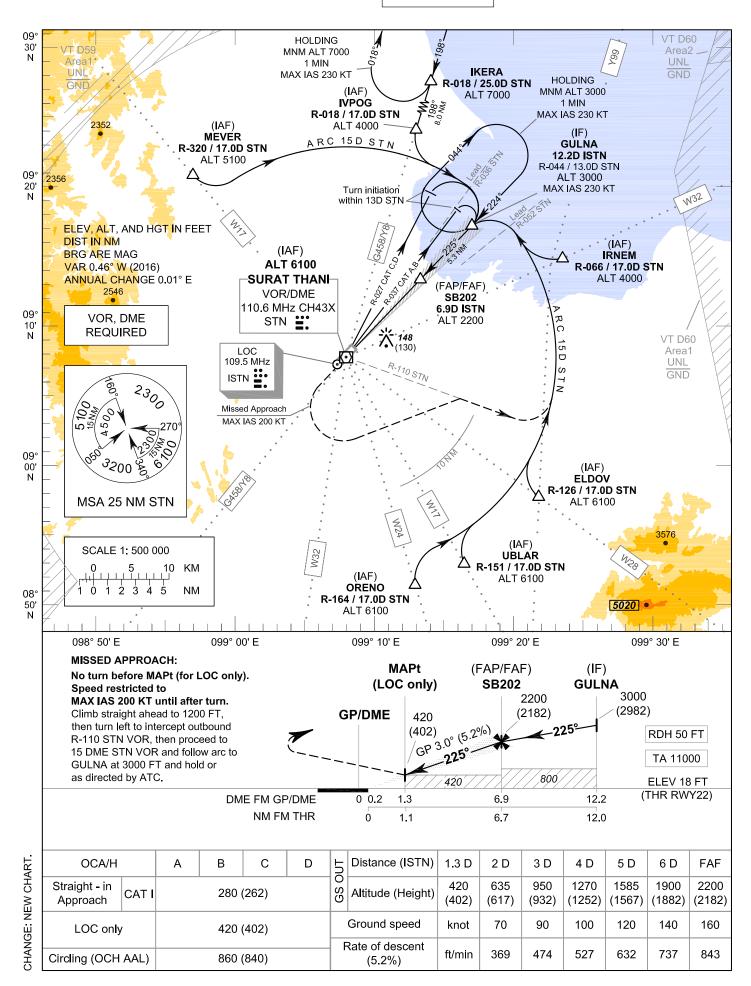
AERODROME ELEV 20 FT HEIGHTS RELATED TO THR RWY22 - ELEV 18 FT SURAT THANI / Surat Thani (VTSB)

VOR RWY22

| Fix | c / Point | Coord | linates | Pronunciation |
|-------------|-------------------|------------------|-------------------|---------------|
| MEVER (IAF) | R-320 / 17.0D STN | 09° 20' 50.29" N | 098° 57' 00.92" E | ME - VER |
| IKERA | R-018 / 25.0D STN | 09° 31' 46.39" N | 099° 15' 32.00" E | I - KEH - RA |
| IVPOG (IAF) | R-018 / 17.0D STN | 09° 24' 05.56" N | 099° 13' 08.88" E | IF - POG |
| ORENO (IAF) | R-164 / 17.0D STN | 08° 51' 25.35" N | 099° 13' 03.54" E | O - RAE - NO |
| UBLAR (IAF) | R-151 / 17.0D STN | 08° 52' 56.23" N | 099° 16' 36.06" E | AB - BLA |
| ELDOV (IAF) | R-126 / 17.0D STN | 08° 57' 43.87" N | 099° 21' 59.10" E | EL - DOV |
| IRNEM (IAF) | R-066 / 17.0D STN | 09° 14' 50.40" N | 099° 23' 43.92" E | ER - NEM |
| GULNA (IF) | R-044 / 13.0D STN | 09° 17' 12.09" N | 099° 17' 10.72" E | GUN - NA |
| FAF | R-044 / 7.7D STN | 09° 13' 20.63" N | 099° 13' 27.43" E | - |
| MAPt | R-044 / 2.1D STN | 09° 09' 16.39" N | 099° 09' 31.96" E | - |
| VOR (IAF) | STN | 09° 07' 46.24" N | 099° 08' 05.09" E | - |

AERODROME ELEV 20 FT HEIGHTS RELATED TO THR RWY22 - ELEV 18 FT APP : 123.35 , 240.0 TWR : 122.7 , 274.5 GND : 121.9 , 275.8 ATIS : 125.95 SURAT THANI / Surat Thani (VTSB)

ILS or LOC y RWY22



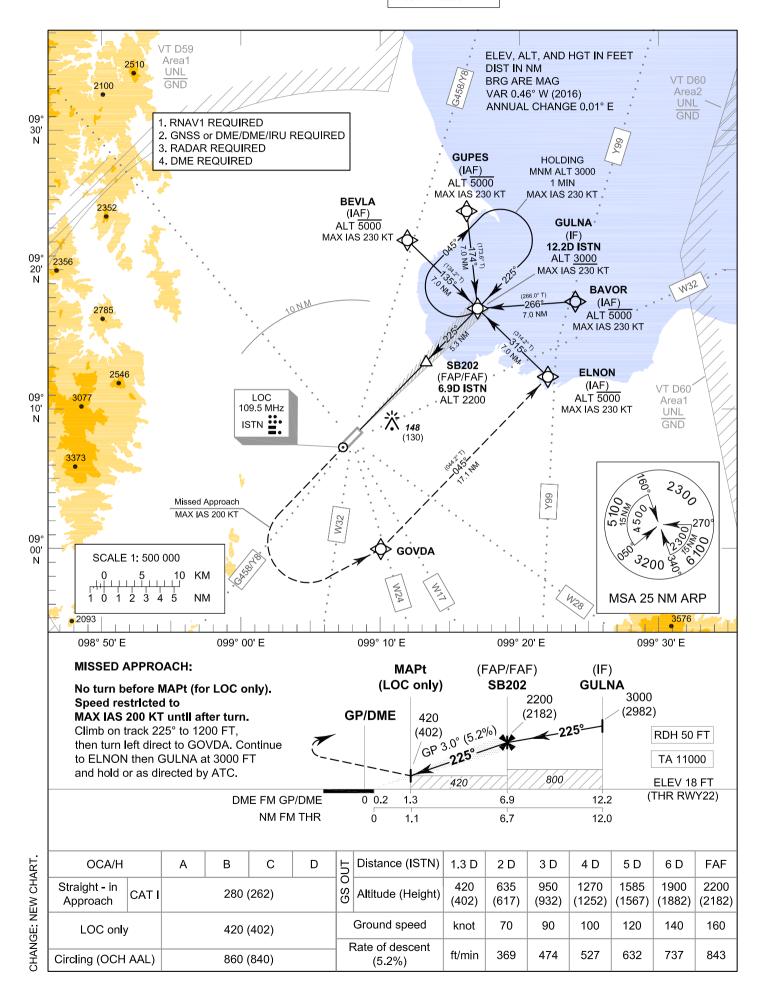
AERODROME ELEV 20 FT HEIGHTS RELATED TO THR RWY22 - ELEV 18 FT SURAT THANI / Surat Thani (VTSB)

ILS or LOC y RWY22

| Fix | / Point | Coord | linates | Pronunciation |
|-----------------|-------------------|------------------|-------------------|---------------|
| MEVER (IAF) | R-320 / 17.0D STN | 09° 20' 50.29" N | 098° 57' 00.92" E | ME - VER |
| IKERA | R-018 / 25.0D STN | 09° 31' 46.39" N | 099° 15' 32.00" E | I-KEH-RA |
| NPOG (IAF) | R-018 / 17.0D STN | 09° 24' 05.56" N | 099° 13' 08.88" E | IF - POG |
| ORENO (IAF) | R-164 / 17.0D STN | 08° 51' 25.35" N | 099° 13' 03.54" E | O - RAE - NO |
| UBLAR (IAF) | R-151 / 17.0D STN | 08° 52' 56.23" N | 099° 16' 36.06" E | AB - BLA |
| ELDOV (AF) | R-126 / 17.0D STN | 08° 57' 43.87" N | 099° 21' 59.10" E | EL - DOV |
| IRNEM (IAF) | R-066 / 17.0D STN | 09° 14' 50.40" N | 099° 23' 43.92" E | ER - NEM |
| GULNA (IF) | 12.2D ISTN | 09° 17' 12.09" N | 099° 17' 10.72" E | GUN - NA |
| SB202 (FAP/FAF) | 6.9D ISTN | 09° 13' 22.20" N | 099° 13' 25.76" E | - |
| MAPt (LOC only) | 1.3D ISTN | 09° 09' 20.11" N | 099° 09' 29.00" E | - |
| LOC | ISTN | 09° 07' 15.04" N | 099° 07' 26.77" E | - |
| GP/DME | ISTN | 09° 08' 21.76" N | 099° 08' 37.47" E | - |
| VOR (IAF) | STN | 09° 07' 46.24" N | 099° 08' 05.09" E | - |

AERODROME ELEV 20 FT HEIGHTS RELATED TO THR RWY22 - ELEV 18 FT APP : 123.35 , 240.0 TWR : 122.7 , 274.5 GND : 121.9 , 275.8 ATIS : 125.95

SURAT THANI / Surat Thani (VTSB)
ILS or LOC z RWY22



INSTRUMENT APPROACH HEIGHTS RELATED TO THR RWY22 - ELEV 18 FT

SURAT THANI / Surat Thani (VTSB) **ILS or LOC z RWY22**

TABULAR DESCRIPTION

| 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 | BAVOR (IAF) | _ | - | +0.44 | - | - | -5000 | -230 | - | RNAV 1 |
| 020 | TF | GULNA (IF) | _ | 266°(266.0°) | +0.44 | 7.0 | - | +3000 | -230 | _ | RNAV 1 |
| | | | | . , | | | | | | | |
| 010 | IF | BEVLA (IAF) | - | - | +0.44 | - | - | -5000 | -230 | - | RNAV 1 |
| 020 | TF | GULNA (IF) | - | 135°(134.2°) | +0.44 | 7.0 | - | +3000 | -230 | - | RNAV 1 |
| | | | | | - | ! | | ! | | | |
| 010 | IF | ELNON (IAF) | - | - | +0.44 | - | - | -5000 | -230 | - | RNAV 1 |
| 020 | TF | GULNA (IF) | - | 315°(314.2°) | +0.44 | 7.0 | - | +3000 | -230 | - | RNAV 1 |
| | | | | | | | | | | | |
| 010 | IF | GUPES (IAF) | - | - | +0.44 | - | - | -5000 | -230 | - | RNAV 1 |
| 020 | TF | GULNA (IF) | - | 174°(173.6°) | +0.44 | 7.0 | 1 | +3000 | -230 | - | RNAV 1 |
| | • | | | | | · | | • | • | | |
| 010 | IF | GULNA (IF) | - | ı | +0.44 | - | ı | +3000 | -230 | - | RNAV 1 |
| RANSITIO | N TO ILS or L | ос | | | | | | | | | |
| 020 | TF | SB202 (FAF) | - | 225°(224.2°) | +0.44 | 5.3 | ı | @2200 | - | - | ILS |
| 030 | TF | MAPt (LOC only) | Υ | 225°(224.2°) | +0.44 | 5.6 | - | @420 | - | -3.0/50 | ILS |
| 040 | CA | - | - | 225°(224.2°) | +0.44 | - | ı | +1200 | -200 | - | RNAV 1 |
| 050 | DF | GOVDA | - | ı | +0.44 | - | ٦ | - | -200 | - | RNAV 1 |
| 060 | TF | ELNON (IAF) | - | 045°(044.2°) | +0.44 | 17.1 | - | -5000 | -230 | - | RNAV 1 |
| 070 | TF | GULNA (IF) | - | 315°(314.2°) | +0.44 | 7.0 | ı | +3000 | -230 | - | RNAV 1 |
| 080 | НМ | GULNA (IF) | Υ | 225°(224.2°) | +0.44 | 1 minute | R | +3000 | -230 | - | RNAV 1 |

WAYPOINT LIST

| ILS or LOC z RWY22 | | | |
|---------------------|------------------|-------------------|---------------|
| | | | |
| Waypoint Identifier | Coord | linates | Pronunciation |
| BAVOR | 09° 17' 41.42" N | 099° 24' 14.48" E | BA - VER |
| BEVLA | 09° 22' 06.23" N | 099° 12' 06.12" E | BAVE - LA |
| ELNON | 09° 12' 17.88" N | 099° 22' 15.18" E | EL - NON |
| GOVDA | 08° 59' 56.82" N | 099° 10' 10.29" E | GOB - DA |
| GULNA | 09° 17' 12.09" N | 099° 17' 10.72" E | GUN - NA |
| GUPES | 09° 24' 11.43" N | 099° 16' 23.39" E | GU - PES |
| MAPt (LOC only) | 09° 09' 20.11" N | 099° 09' 29.00" E | - |
| SB202 | 09° 13' 22.20" N | 099° 13' 25.76" E | - |

INSTRUMENTAERODROME ELEV 20 FTAPPROACHHEIGHTS RELATED TOCHART - ICAOTHR RWY22 - ELEV 18 FT

SURAT THANI / Surat Thani (VTSB)
ILS or LOC z RWY22

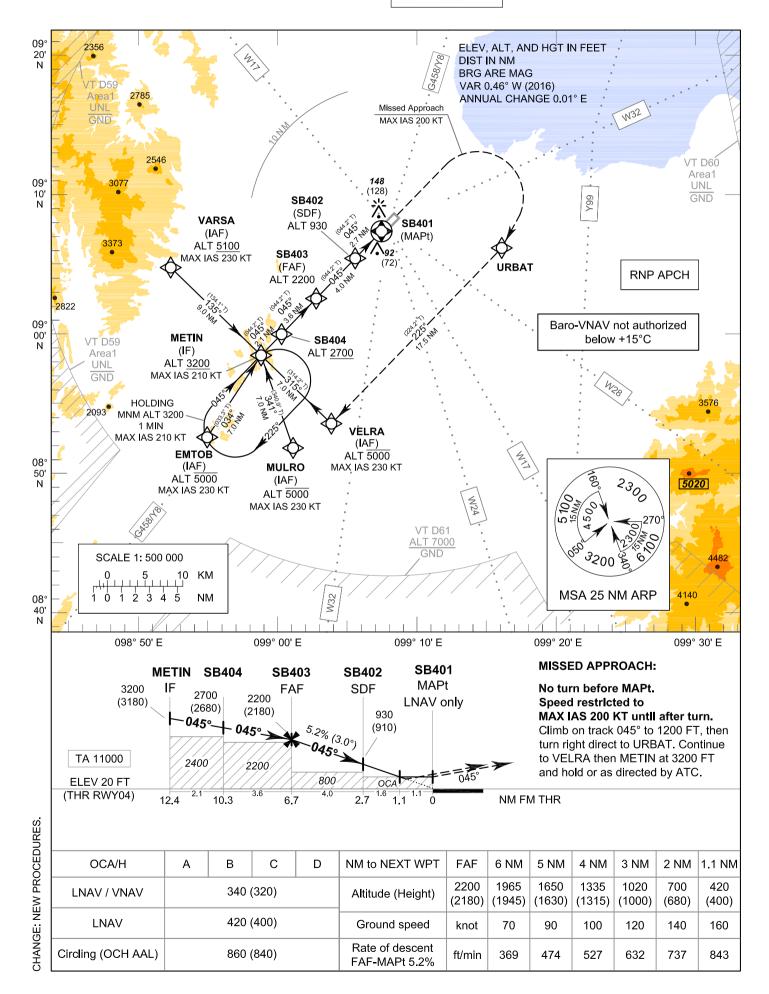
| Fix | / Point | Coord | Pronunciation | |
|-----------------|------------|------------------|-------------------|----------|
| GULNA (IF) | 12.2D ISTN | 09° 17' 12.09" N | 099° 17' 10.72" E | GUN - NA |
| SB202 (FAP/FAF) | 6.9D ISTN | 09° 13' 22.20" N | 099° 13' 25.76" E | - |
| MAPt (LOC only) | 1.3D ISTN | 09° 09' 20.11" N | 099° 09' 29.00" E | - |
| LOC | ISTN | 09° 07' 15.04" N | 099° 07' 26.77" E | - |
| GP/DME | ISTN | 09° 08' 21.76" N | 099° 08' 37.47" E | - |



AERODROME ELEV 20 FT HEIGHTS RELATED TO THR RWY04 - ELEV 20 FT APP: 123.35, 240.0 TWR: 122.7, 274.5 GND: 121.9, 275.8 ATIS: 125.95

SURAT THANI / Surat Thani (VTSB)

RNAV (GNSS) RWY04



INSTRUMENT APPROACH HEIGHTS RELATED TO THR RWY04 - ELEV 20 FT

SURAT THANI / Surat Thani (VTSB) RNAV (GNSS) RWY04

AIP THAILAND

TABULAR DESCRIPTION

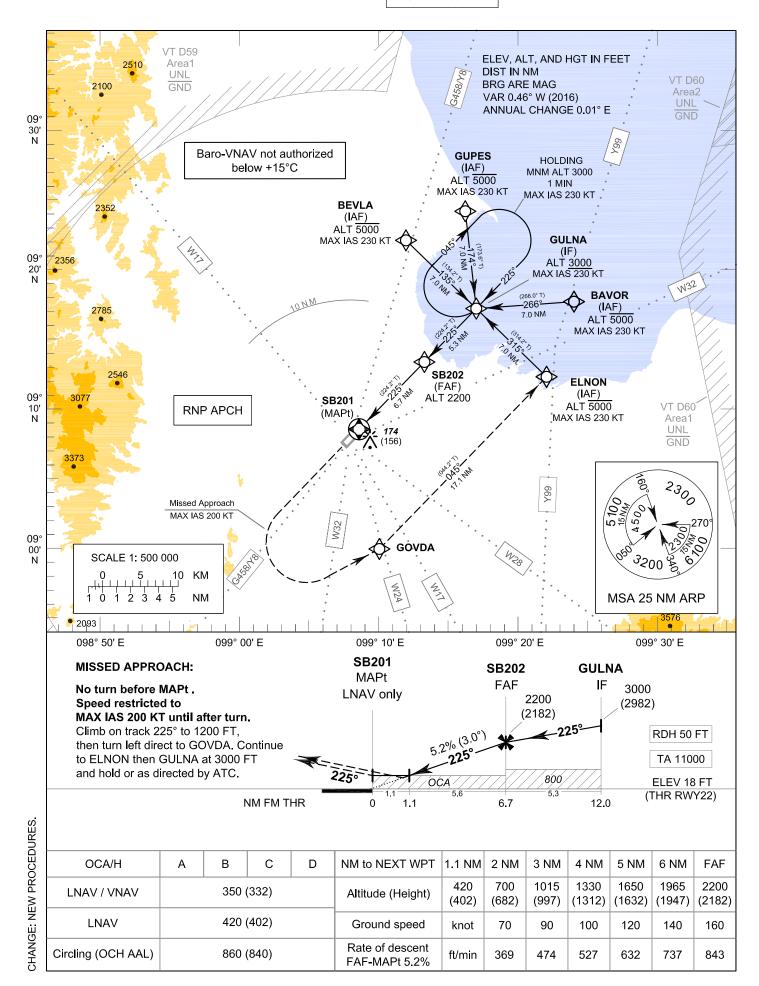
| Serial Number | Path Descriptor | Waypoint Identifier | Flyover | Course ° M (° T) | Magnetic Variation | Distance (NM) | Turn Direction | Altitude (FT) | Speed (KT) | VPA/ TCH | Navigation Specification |
|------------------|-----------------|---------------------|---------|---------------------|-----------------------|------------------|-------------------|------------------|---------------|-------------|-----------------------------|
| 010 | IF | EMTOB (IAF) | - | - | +0.44 | - | - | -5000 | -230 | - | RNP APCH |
| 020 | TF | METIN (IF) | - | 034°(033.3°) | +0.44 | 7.0 | - | +3200 | -210 | - | RNP APCH |
| | | | | | | | | • | | | |
| 010 | IF | MULRO (IAF) | - | - | +0.44 | - | - | -5000 | -230 | - | RNP APCH |
| 020 | TF | METIN (IF) | - | 341°(340.9°) | +0.44 | 7.0 | - | +3200 | -210 | - | RNP APCH |
| | | | | | | | | | | | |
| 010 | IF | VARSA (IAF) | - | - | +0.44 | - | - | +5100 | -230 | - | RNP APCH |
| 020 | TF | METIN (IF) | - | 135°(134.1°) | +0.44 | 9.0 | - | +3200 | -210 | - | RNP APCH |
| | | | | | | | | | | | |
| 010 | IF | VELRA (IAF) | - | - | +0.44 | - | - | -5000 | -230 | - | RNP APCH |
| 020 | TF | METIN (IF) | - | 315°(314.2°) | +0.44 | 7.0 | - | +3200 | -210 | - | RNP APCH |
| | | | | | | | | | | | |
| 010 | IF | METIN (IF) | - | - | +0.44 | - | - | +3200 | -210 | - | RNP APCH |
| 020 | TF | SB404 | - | 045°(044.2°) | +0.44 | 2.1 | - | +2700 | - | - | RNP APCH |
| 030 | TF | SB403 (FAF) | - | 045°(044.2°) | +0.44 | 3.6 | - | @2200 | - | - | RNP APCH |
| 040 | TF | SB402 (SDF) | - | 045°(044.2°) | +0.44 | 4.0 | - | @930 | - | - | RNP APCH |
| 050 | TF | SB401 (MAPt) | Υ | 045°(044.2°) | +0.44 | 2.7 | - | @70 | - | -3.0/50 | RNP APCH |
| 060 | CA | - | - | 045°(044.2°) | +0.44 | - | - | +1200 | -200 | - | RNP APCH |
| 070 | DF | URBAT | - | - | +0.44 | - | R | - | -200 | - | RNP APCH |
| 080 | TF | VELRA (IAF) | - | 225°(224.2°) | +0.44 | 17.5 | - | -5000 | -230 | - | RNP APCH |
| 090 | TF | METIN (IF) | - | 315°(314.2°) | +0.44 | 7.0 | - | +3200 | -210 | - | RNP APCH |
| 100 | НМ | METIN (IF) | Υ | 045°(044.2°) | +0.44 | 1 minute | R | +3200 | -210 | - | RNP APCH |

WAYPOINT LIST

| RNAV (GNSS) RWY04 | | | |
|---------------------|------------------|-------------------|-----------|
| | · | · | |
| Waypoint Identifier | Coore | Pronunciation | |
| ЕМТОВ | 08° 52' 35.41" N | 098° 54' 58.65" E | EM - TOB |
| METIN | 08° 58' 27.96" N | 098° 58' 51.85" E | ME - THIN |
| MULRO | 08° 51' 49.15" N | 099° 01' 10.50" E | MUN - RO |
| SB401 | 09° 07' 22.19" N | 099° 07' 33.72" E | - |
| SB402 | 09° 05' 25.44" N | 099° 05' 39.62" E | - |
| SB403 | 09° 02' 32.46" N | 099° 02' 50.62" E | - |
| SB404 | 08° 59' 58.79" N | 099° 00' 20.53" E | - |
| URBAT | 09° 06' 09.76" N | 099° 16' 14.93" E | ER - BAT |
| VARSA | 09° 04' 45.80" N | 098° 52' 20.21" E | VA - SA |
| VELRA | 08° 53' 34.01" N | 099° 03' 56.30" E | VEL - RA |

AERODROME ELEV 20 FT HEIGHTS RELATED TO THR RWY22 - ELEV 18 FT APP : 123.35 , 240.0 TWR : 122.7 , 274.5 GND : 121.9 , 275.8 ATIS : 125.95 SURAT THANI / Surat Thani (VTSB)

RNAV (GNSS) RWY22



AERODROME ELEV 20 FT HEIGHTS RELATED TO THR RWY22 - ELEV 18 FT

SURAT THANI / Surat Thani (VTSB) RNAV (GNSS) RWY22

TABULAR DESCRIPTION

| Serial | Path | Marine stated and C | Eb | Course | Magnetic | Distance | Turn | Altitude | Speed | VPA/ | Navigation |
|--------|-------------------|---------------------|---------|--------------|-----------|----------|-----------|----------|-------|---------|---------------|
| Number | Number Descriptor | Waypoint Identifier | Flyover | ° M (° T) | Variation | (NM) | Direction | (FT) | (KT) | тсн | Specification |
| 010 | IF | BAVOR (IAF) | - | - | +0.44 | - | - | -5000 | -230 | - | RNP APCH |
| 020 | TF | GULNA (IF) | - | 266°(266.0°) | +0.44 | 7.0 | - | +3000 | -230 | - | RNP APCH |
| | | | _ | | | | | | | | |
| 010 | IF | BEVLA (IAF) | - | - | +0.44 | - | - | -5000 | -230 | - | RNP APCH |
| 020 | TF | GULNA (IF) | - | 135°(134.2°) | +0.44 | 7.0 | - | +3000 | -230 | - | RNP APCH |
| | | | | | | | | | | | |
| 010 | IF | ELNON (IAF) | - | - | +0.44 | - | - | -5000 | -230 | - | RNP APCH |
| 020 | TF | GULNA (IF) | - | 315°(314.2°) | +0.44 | 7.0 | - | +3000 | -230 | - | RNP APCH |
| | | | | | | | | | | | |
| 010 | IF | GUPES (IAF) | - | - | +0.44 | - | - | -5000 | -230 | - | RNP APCH |
| 020 | TF | GULNA (IF) | - | 174°(173.6°) | +0.44 | 7.0 | - | +3000 | -230 | - | RNP APCH |
| | | | _ | | | | | | | | |
| 010 | IF | GULNA (IF) | - | - | +0.44 | - | - | +3000 | -230 | - | RNP APCH |
| 020 | TF | SB202 (FAF) | - | 225°(224.2°) | +0.44 | 5.3 | - | @2200 | - | - | RNP APCH |
| 030 | TF | SB201 (MAPt) | Υ | 225°(224.2°) | +0.44 | 6.7 | - | @68 | - | -3.0/50 | RNP APCH |
| 040 | CA | - | - | 225°(224.2°) | +0.44 | - | - | +1200 | -200 | - | RNP APCH |
| 050 | DF | GOVDA | - | - | +0.44 | - | L | - | -200 | - | RNP APCH |
| 060 | TF | ELNON (IAF) | - | 045°(044.2°) | +0.44 | 17.1 | - | -5000 | -230 | - | RNP APCH |
| 070 | TF | GULNA (IF) | - | 315°(314.2°) | +0.44 | 7.0 | - | +3000 | -230 | - | RNP APCH |
| 080 | НМ | GULNA (IF) | Υ | 225°(224.2°) | +0.44 | 1 minute | R | +3000 | -230 | - | RNP APCH |

WAYPOINT LIST

| RNAV (GNSS) RWY22 | | | |
|---------------------|------------------|-------------------|---------------|
| | T | | |
| Waypoint Identifier | Coord | dinates | Pronunciation |
| BAVOR | 09° 17' 41.42" N | 099° 24' 14.48" E | BA - VER |
| BEVLA | 09° 22' 06.23" N | 099° 12' 06.12" E | BAVE - LA |
| ELNON | 09° 12' 17.88" N | 099° 22' 15.18" E | EL - NON |
| GOVDA | 08° 59' 56.82" N | 099° 10' 10.29" E | GOB - DA |
| GULNA | 09° 17' 12.09" N | 099° 17' 10.72" E | GUN - NA |
| GUPES | 09° 24' 11.43" N | 099° 16' 23.39" E | GU-PES |
| SB201 | 09° 08' 32.55" N | 099° 08' 42.50" E | - |
| SB202 | 09° 13' 22.20" N | 099° 13' 25.76" E | - |