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**DEPARTMENT OF CIVIL AVIATION**  
**AERONAUTICAL INFORMATION SERVICE**  
**TUNG-MAHAMEK, BANGKOK 10120**  
**THAILAND.**

**AIP - THAILAND**  
**Amendment 21**  
**3 MAR 16**

1. Insert the attached replacement pages. The checklist (GEN 0.4-1 to GEN 0.4-11) gives lists of pages that are current in the whole AIP after the incorporation of this amendment. New or replacement pages are indicated with an asterisk (\*). Amended text has been identified by a vertical line, or an arrow in the margin of the replacement pages.
2. Record entry of amendment on page GEN 0.2-1.
3. This amendment incorporates information contained in the following which are hereby superseded:

**NOTAM 2015**

|               |       |
|---------------|-------|
| A3032 / C4773 | C4006 |
| A2292 / C3690 | C4162 |
| A2291 / C3689 | C4863 |

**NOTAM 2016**

A0038 / C0060

**AIP Supplement : Series "A"**

2016 : A2

**AIRAC AIP Supplement : Series "A"**

2015 : A11, A18

**AIRAC AIP Supplement : Series "B"**

2015 : B7, B10

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| VTSP AD 2-45/Chart         | 13 Nov 14       | VTBS AD 2-35 | 10 Dec 08 | VTBS AD 2-81        | 23 Jul 15 |
| VTSP AD 2-47/Chart         | 13 Nov 14       | VTBS AD 2-36 | 10 Dec 08 | VTBS AD 2-82        | 23 Jul 15 |
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| VTSP AD 2-51/Chart         | 13 Nov 14       | VTBS AD 2-38 | 10 Dec 08 | VTBS AD 2-84        | 23 Jul 15 |
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| VTBS AD 2-1                | 5 Mar 15        | VTBS AD 2-45 | 10 Dec 08 | VTBS AD 2-92        | 23 Jul 15 |
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| VTBS AD 2-7                | 23 Jul 15       | VTBS AD 2-51 | 10 Dec 08 | VTBS AD 2-103/Chart | 23 Jul 15 |
| VTBS AD 2-8                | 23 Jul 15       | VTBS AD 2-52 | 10 Dec 08 | VTBS AD 2-105/Chart | 23 Jul 15 |
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| VTBS AD 2-10               | 23 Jul 15       | VTBS AD 2-54 | 10 Dec 08 | VTBS AD 2-109/Chart | 23 Jul 15 |
| VTBS AD 2-11               | 23 Jul 15       | VTBS AD 2-55 | 10 Dec 08 | VTBS AD 2-111/Chart | 23 Jul 15 |
| VTBS AD 2-12               | 23 Jul 15       | VTBS AD 2-56 | 10 Dec 08 | VTBS AD 2-113/Chart | 23 Jul 15 |
| <b>VTBS AD 2-13*</b>       | <b>3 Mar 16</b> | VTBS AD 2-57 | 10 Dec 08 | VTBS AD 2-115/Chart | 10 Dec 08 |
| VTBS AD 2-14               | 10 Dec 08       | VTBS AD 2-58 | 10 Dec 08 | VTBS AD 2-117/Chart | 10 Dec 08 |
| VTBS AD 2-15               | 10 Dec 08       | VTBS AD 2-59 | 10 Dec 08 | VTBS AD 2-119/Chart | 10 Dec 08 |
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| VTBS AD 2-19               | 18 Nov 10       | VTBS AD 2-63 | 10 Dec 08 | VTBS AD 2-127/Chart | 10 Dec 08 |
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| VTBS AD 2-29               | 10 Dec 08       | VTBS AD 2-72 | 10 Dec 08 | VTBS AD 2-145       | 10 Dec 08 |
| VTBS AD 2-30               | 24 Jul 14       | VTBS AD 2-73 | 10 Dec 08 | VTBS AD 2-147/Chart | 10 Dec 08 |
| VTBS AD 2-31               | 10 Dec 08       | VTBS AD 2-74 | 13 Nov 14 | VTBS AD 2-148       | 10 Dec 08 |
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| VTBS AD 2-33               | 10 Dec 08       | VTBS AD 2-76 | 23 Jul 15 | VTBS AD 2-150       | 10 Dec 08 |
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| VTBS AD 2-159       | 10 Dec 08 | VTBU AD 2-5                          | 10 Dec 08       | VTSS AD 2-5           | 25 Jul 13       |
| VTBS AD 2-161/Chart | 10 Dec 08 | VTBU AD 2-6                          | 29 Jul 10       | VTSS AD 2-6           | 25 Jul 13       |
| VTBS AD 2-162       | 10 Dec 08 | VTBU AD 2-7                          | 23 Jul 15       | VTSS AD 2-7           | 25 Jul 13       |
| VTBS AD 2-163/Chart | 10 Dec 08 | VTBU AD 2-8                          | 10 Dec 08       | VTSS AD 2-8           | 25 Jul 13       |
| VTBS AD 2-164       | 10 Dec 08 | VTBU AD 2-9                          | 12 Nov 15       | VTSS AD 2-9           | 25 Jul 13       |
| VTBS AD 2-165/Chart | 10 Dec 08 | VTBU AD 2-10                         | 23 Jul 15       | VTSS AD 2-10          | 25 Jul 13       |
| VTBS AD 2-166       | 10 Dec 08 | VTBU AD 2-11                         | 10 Dec 08       | VTSS AD 2-11          | 25 Jul 13       |
| VTBS AD 2-167/Chart | 10 Dec 08 | VTBU AD 2-12                         | 10 Dec 08       | <b>VTSS AD 2-12*</b>  | <b>3 Mar 16</b> |
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| VTBS AD 2-173       | 10 Dec 08 | VTBU AD 2-19/Chart                   | 10 Dec 08       | VTSS AD 2-17          | 25 Jul 13       |
| VTBS AD 2-175/Chart | 11 Mar 10 | VTBU AD 2-21/Chart                   | 10 Dec 08       | VTSS AD 2-18          | 25 Jul 13       |
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| VTUO AD 2-18/Chart | 10 Dec 08 | VTSG AD 2-1         | 23 Jul 15       | VTUL AD 2-7                        | 12 Nov 15 |
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| VTSE AD 2-3        | 10 Dec 08 | VTSG AD 2-6         | 23 Jul 15       |                                    |           |
| VTSE AD 2-4        | 10 Dec 08 | VTSG AD 2-7         | 6 Mar 14        | <b>LOP BURI/Khok Kathiam (MIL)</b> |           |
| VTSE AD 2-5        | 13 Nov 14 | VTSG AD 2-8         | 12 Nov 15       | VTBL AD 2-1                        | 12 Nov 15 |
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| VTSE AD 2-9        | 10 Dec 08 | VTSG AD 2-15/Chart  | 10 Dec 08       | VTBL AD 2-5                        | 10 Dec 08 |
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| VTCL AD 2-3                                    | 12 Nov 15 | VTUQ AD 2-3                          | 10 Dec 08 | VTSF AD 2-3                        | 10 Mar 11 |
| VTCL AD 2-4                                    | 10 Dec 08 | VTUQ AD 2-4                          | 10 Dec 08 | VTSF AD 2-4                        | 30 Jul 09 |
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| VTCL AD 2-11/Chart                             | 12 Nov 15 | VTUQ AD 2-9                          | 12 Nov 15 | VTSF AD 2-9                        | 23 Jul 15 |
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| <b>NAKHON PATHOM /<br/>Kamphaeng Saen(MIL)</b> |           |                                      |           | VTSF AD 2-23/Chart                 | 23 Jul 15 |
| VTBK AD 2-1                                    | 5 Mar 15  |                                      |           | VTSF AD 2-25/Chart                 | 23 Jul 15 |
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| VTBK AD 2-4                                    | 10 Dec 08 | <b>NAKHON RATCHASIMA/Khorat(MIL)</b> |           |                                    |           |
| VTBK AD 2-5                                    | 13 Nov 14 | VTUN AD 2-1                          | 5 Mar 15  | <b>NAKHON SI THAMMARAT/Cha-lan</b> |           |
| VTBK AD 2-6                                    | 30 Jul 09 | VTUN AD 2-2                          | 5 Mar 15  | VTSN AD 2-1                        | 12 Nov 15 |
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| <b>NAKHON PHANOM</b>                           |           |                                      |           |                                    |           |
| VTUW AD 2-1                                    | 12 Nov 15 |                                      |           | <b>NAN/Nan Nakhon</b>              |           |
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| <b>PATTANI</b>      |                 | VTTP AD 2-21/Chart               | 29 Jul 10       | <b>RANONG</b>                      |           |
| VTSK AD 2-1         | 12 Nov 15       | VTTP AD 2-23/Chart               | 29 Jul 10       | VTSR AD 2-1                        | 5 Mar 15  |
| <b>VTSK AD 2-2*</b> | <b>3 Mar 16</b> | VTTP AD 2-25/Chart               | 29 Jul 10       | VTSR AD 2-2                        | 10 Dec 08 |
| VTSK AD 2-3         | 12 Nov 15       | VTTP AD 2-27/Chart               | 29 Jul 10       | VTSR AD 2-3                        | 10 Dec 08 |
| VTSK AD 2-4         | 12 Nov 15       | VTTP AD 2-29/Chart               | 29 Jul 10       | VTSR AD 2-4                        | 23 Jul 15 |
| VTSK AD 2-5         | 12 Nov 15       |                                  |                 | VTSR AD 2-5                        | 10 Dec 08 |
| VTSK AD 2-6         | 12 Nov 15       |                                  |                 | VTSR AD 2-6                        | 10 Dec 08 |
| VTSK AD 2-7         | 12 Nov 15       | <b>PHRAE</b>                     |                 | VTSR AD 2-7                        | 30 Jul 09 |
| VTSK AD 2-9/Chart   | 12 Nov 15       | VTCP AD 2-1                      | 23 Jul 15       | VTSR AD 2-8                        | 12 Nov 15 |
| VTSK AD 2-11/Chart  | 12 Nov 15       | VTCP AD 2-2                      | 23 Jul 15       | VTSR AD 2-9                        | 10 Dec 08 |
| VTSK AD 2-13/Chart  | 12 Nov 15       | VTCP AD 2-3                      | 23 Jul 15       | VTSR AD 2-11/Chart                 | 10 Dec 08 |
|                     |                 | VTCP AD 2-4                      | 12 Nov 15       | VTSR AD 2-13/Chart                 | 10 Dec 08 |
|                     |                 | VTCP AD 2-5                      | 12 Nov 15       | VTSR AD 2-14/Chart                 | 10 Dec 08 |
|                     |                 | VTCP AD 2-6                      | 12 Nov 15       |                                    |           |
|                     |                 | VTCP AD 2-7                      | 12 Nov 15       |                                    |           |
|                     |                 | VTCP AD 2-9                      | 12 Nov 15       |                                    |           |
| <b>PHETCHABUN</b>   |                 | VTCP AD 2-11/Chart               | 12 Nov 15       | <b>ROI ET</b>                      |           |
| VTPB AD 2-1         | 5 Mar 15        | VTCP AD 2-13/Chart               | 12 Nov 15       | VTUV AD 2-1                        | 23 Jul 15 |
| VTPB AD 2-2         | 10 Dec 08       |                                  |                 | VTUV AD 2-2                        | 24 Jul 14 |
| VTPB AD 2-3         | 10 Dec 08       |                                  |                 | VTUV AD 2-3                        | 10 Dec 08 |
| VTPB AD 2-4         | 23 Jul 15       | <b>PRACHUAP KHIRI KHAN (MIL)</b> |                 | VTUV AD 2-4                        | 23 Jul 15 |
| VTPB AD 2-5         | 10 Dec 08       | <b>VTBP AD 2-1*</b>              | <b>3 Mar 16</b> | VTUV AD 2-5                        | 10 Dec 08 |
| VTPB AD 2-6         | 10 Dec 08       | <b>VTBP AD 2-2*</b>              | <b>3 Mar 16</b> | VTUV AD 2-6                        | 10 Dec 08 |
| VTPB AD 2-7         | 30 Jul 09       | <b>VTBP AD 2-3*</b>              | <b>3 Mar 16</b> | VTUV AD 2-7                        | 30 Jul 09 |
| VTPB AD 2-8         | 12 Nov 15       | <b>VTBP AD 2-4*</b>              | <b>3 Mar 16</b> | VTUV AD 2-8                        | 12 Nov 15 |
| VTPB AD 2-9         | 10 Dec 08       | <b>VTBP AD 2-5*</b>              | <b>3 Mar 16</b> | VTUV AD 2-9                        | 10 Dec 08 |
| VTPB AD 2-11/Chart  | 10 Dec 08       | <b>VTBP AD 2-6*</b>              | <b>3 Mar 16</b> | VTUV AD 2-11/Chart                 | 10 Dec 08 |
| VTPB AD 2-13/Chart  | 10 Dec 08       | <b>VTBP AD 2-7*</b>              | <b>3 Mar 16</b> | VTUV AD 2-13/Chart                 | 10 Dec 08 |
| VTPB AD 2-15/Chart  | 10 Dec 08       | VTBP AD 2-8                      | 12 Nov 15       | VTUV AD 2-14/Chart                 | 10 Dec 08 |
| VTPB AD 2-16/Chart  | 10 Dec 08       | VTBP AD 2-9                      | 12 Nov 15       |                                    |           |
| VTPB AD 2-17/Chart  | 10 Dec 08       |                                  |                 |                                    |           |

**GEN 0.4 CHECKLIST OF AIP PAGES**  
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| <b>SAKON NAKHON</b>   |           | <b>SURAT THANI</b>         |                 | <b>SURIN</b>        |                 |
| VTUI AD 2-1           | 23 Jul 15 | VTSB AD 2-1                | 5 Mar 15        | VTUJ AD 2-1         | 10 Dec 08       |
| VTUI AD 2-2           | 10 Dec 08 | VTSB AD 2-2                | 6 Mar 14        | VTUJ AD 2-2         | 10 Dec 08       |
| VTUI AD 2-3           | 10 Dec 08 | VTSB AD 2-3                | 10 Dec 08       | VTUJ AD 2-3         | 10 Dec 08       |
| VTUI AD 2-4           | 23 Jul 15 | VTSB AD 2-4                | 30 Jul 09       | VTUJ AD 2-4         | 12 Nov 15       |
| VTUI AD 2-5           | 12 Nov 15 | VTSB AD 2-5                | 8 Mar 12        | VTUJ AD 2-5         | 12 Nov 15       |
| VTUI AD 2-6           | 25 Jul 13 | VTSB AD 2-6                | 5 Mar 15        | VTUJ AD 2-7         | 12 Nov 15       |
| VTUI AD 2-7           | 12 Nov 15 | VTSB AD 2-7                | 30 Jul 09       | VTUJ AD 2-8         | 12 Nov 15       |
| VTUI AD 2-8           | 12 Nov 15 | VTSB AD 2-9                | 12 Nov 15       | VTUJ AD 2-9         | 24 Jul 14       |
| VTUI AD 2-9           | 10 Dec 08 | VTSB AD 2-10               | 15 Nov 12       |                     |                 |
| VTUI AD 2-11/Chart    | 10 Dec 08 | <b>VTSB AD 2-11*</b>       | <b>3 Mar 16</b> |                     |                 |
| VTUI AD 2-13/Chart    | 10 Dec 08 | VTSB AD 2-13/Chart         | 10 Dec 08       | <b>TAK</b>          |                 |
| VTUI AD 2-14/Chart    | 10 Dec 08 | VTSB AD 2-15/Chart         | 13 Nov 14       | VTPT AD 2-1         | 12 Nov 15       |
|                       |           | VTSB AD 2-17/Chart         | 13 Nov 14       | VTPT AD 2-2         | 12 Nov 15       |
|                       |           | VTSB AD 2-19/Chart         | 13 Nov 14       | VTPT AD 2-3         | 12 Nov 15       |
|                       |           | <b>VTSB AD 2-21/Chart*</b> | <b>3 Mar 16</b> | VTPT AD 2-4         | 12 Nov 15       |
|                       |           | <b>VTSB AD 2-23/Chart*</b> | <b>3 Mar 16</b> | VTPT AD 2-5         | 12 Nov 15       |
| <b>SONGKHLA (MIL)</b> |           |                            |                 | VTPT AD 2-6         | 12 Nov 15       |
| VTSH AD 2-1           | 5 Mar 15  |                            |                 | VTPT AD 2-7         | 12 Nov 15       |
| VTSH AD 2-2           | 10 Dec 08 |                            |                 | VTPT AD 2-9/Chart   | 12 Nov 15       |
| VTSH AD 2-3           | 10 Dec 08 |                            |                 |                     |                 |
| VTSH AD 2-4           | 10 Dec 08 |                            |                 | <b>TAK/Mae Sot</b>  |                 |
| VTSH AD 2-5           | 10 Dec 08 | <b>SURAT THANI /Samui</b>  |                 | VTPM AD 2-1         | 12 Nov 15       |
| VTSH AD 2-6           | 13 Nov 14 | VTSM AD 2-1                | 23 Jul 15       | VTPM AD 2-2         | 12 Nov 15       |
| VTSH AD 2-7           | 12 Nov 15 | VTSM AD 2-2                | 12 Nov 15       | VTPM AD 2-3         | 12 Nov 15       |
| VTSH AD 2-9           | 10 Dec 08 | VTSM AD 2-3                | 23 Jul 15       | VTPM AD 2-4         | 12 Nov 15       |
| VTSH AD 2-11/Chart    | 10 Dec 08 | VTSM AD 2-4                | 23 Jul 15       | VTPM AD 2-5         | 12 Nov 15       |
|                       |           | VTSM AD 2-5                | 12 Nov 15       | VTPM AD 2-6         | 12 Nov 15       |
|                       |           | VTSM AD 2-6                | 24 Jul 14       | VTPM AD 2-7         | 12 Nov 15       |
|                       |           | VTSM AD 2-7                | 12 Nov 15       | VTPM AD 2-9         | 12 Nov 15       |
|                       |           | VTSM AD 2-8                | 13 Nov 14       | VTPM AD 2-11/Chart  | 12 Nov 15       |
| <b>SUKHOTHAI</b>      |           | VTSM AD 2-9                | 12 Nov 15       |                     |                 |
| VTPO AD 2-1           | 23 Jul 15 | VTSM AD 2-10               | 23 Jul 15       | <b>TRANG</b>        |                 |
| VTPO AD 2-2           | 29 Jul 10 | VTSM AD 2-11/Chart         | 26 Jul 12       | VTST AD 2-1         | 5 Mar 15        |
| VTPO AD 2-3           | 29 Jul 10 | VTSM AD 2-13/Chart         | 26 Jul 12       | VTST AD 2-2         | 10 Dec 08       |
| VTPO AD 2-4           | 29 Jul 10 | VTSM AD 2-15/Chart         | 26 Jul 12       | VTST AD 2-3         | 10 Dec 08       |
| VTPO AD 2-5           | 29 Jul 10 | VTSM AD 2-17/Chart         | 23 Jul 15       | VTST AD 2-4         | 12 Nov 15       |
| VTPO AD 2-6           | 13 Nov 14 | VTSM AD 2-19/Chart         | 23 Jul 15       | <b>VTST AD 2-5*</b> | <b>3 Mar 16</b> |
| VTPO AD 2-7           | 12 Nov 15 | VTSM AD 2-21/Chart         | 23 Jul 15       | VTST AD 2-6         | 12 Nov 15       |
| VTPO AD 2-8           | 12 Nov 15 | VTSM AD 2-23/Chart         | 23 Jul 15       | <b>VTST AD 2-7*</b> | <b>3 Mar 16</b> |
| VTPO AD 2-9           | 10 Mar 11 | VTSM AD 2-25/Chart         | 23 Jul 15       | VTST AD 2-9/Chart   | 10 Dec 08       |
| VTPO AD 2-11/Chart    | 14 Nov 13 | VTSM AD 2-27/Chart         | 23 Jul 15       | VTST AD 2-11/Chart  | 10 Dec 08       |
| VTPO AD 2-13/Chart    | 14 Nov 13 | VTSM AD 2-29/Chart         | 23 Jul 15       | VTST AD 2-13/Chart  | 10 Dec 08       |
| VTPO AD 2-15/Chart    | 10 Dec 08 | VTSM AD 2-31/Chart         | 23 Jul 15       | VTST AD 2-14/Chart  | 10 Dec 08       |
| VTPO AD 2-17/Chart    | 10 Dec 08 | VTSM AD 2-33/Chart         | 23 Jul 15       |                     |                 |
| VTPO AD 2-21/Chart    | 10 Dec 08 | VTSM AD 2-35/Chart         | 23 Jul 15       |                     |                 |
| VTPO AD 2-22/Chart    | 10 Dec 08 |                            |                 |                     |                 |

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| <b>TRAT</b> |           | <b>UBON RATCHATHANI</b> |           | <b>UDON THANI</b>   |                 |
| VTBO AD 2-1 | 23 Jul 15 | VTUU AD 2-1             | 5 Mar 15  | <b>VTUD AD 2-1*</b> | <b>3 Mar 16</b> |
| VTBO AD 2-2 | 30 Jul 09 | VTUU AD 2-2             | 18 Nov 10 | VTUD AD 2-2         | 30 Jul 09       |
| VTBO AD 2-3 | 30 Jul 09 | VTUU AD 2-3             | 10 Dec 08 | VTUD AD 2-3         | 24 Jul 14       |
| VTBO AD 2-4 | 26 Jul 12 | VTUU AD 2-4             | 10 Dec 08 | VTUD AD 2-4         | 24 Jul 14       |
| VTBO AD 2-5 | 30 Jul 09 | VTUU AD 2-5             | 10 Dec 08 | VTUD AD 2-5         | 12 Nov 15       |
| VTBO AD 2-6 | 12 Nov 15 | VTUU AD 2-6             | 26 Jul 12 | <b>VTUD AD 2-6*</b> | <b>3 Mar 16</b> |
| VTBO AD 2-7 | 30 Jul 09 | VTUU AD 2-7             | 26 Jul 12 | VTUD AD 2-7         | 12 Nov 15       |
| VTBO AD 2-8 | 12 Nov 15 | VTUU AD 2-8             | 12 Nov 15 | VTUD AD 2-8         | 18 Nov 10       |
| VTBO AD 2-9 | 12 Nov 15 | VTUU AD 2-9             | 30 Jul 09 | VTUD AD 2-9         | 23 Jul 15       |
|             |           | VTUU AD 2-10            | 12 Nov 15 | VTUD AD 2-11/Chart  | 26 Jul 12       |
|             |           | VTUU AD 2-11            | 23 Jul 15 | VTUD AD 2-13/Chart  | 23 Jul 15       |
|             |           | VTUU AD 2-13/Chart      | 10 Dec 08 | VTUD AD 2-15/Chart  | 23 Jul 15       |
|             |           | VTUU AD 2-15/Chart      | 10 Dec 08 | VTUD AD 2-17/Chart  | 23 Jul 15       |
|             |           | VTUU AD 2-16/Chart      | 10 Dec 08 | VTUD AD 2-19/Chart  | 23 Jul 15       |
|             |           | VTUU AD 2-17/Chart      | 23 Jul 15 | VTUD AD 2-21/Chart  | 23 Jul 15       |
|             |           | VTUU AD 2-19/Chart      | 23 Jul 15 | VTUD AD 2-23/Chart  | 23 Jul 15       |
|             |           | VTUU AD 2-21/Chart      | 23 Jul 15 | VTUD AD 2-25/Chart  | 23 Jul 15       |
|             |           | VTUU AD 2-23/Chart      | 23 Jul 15 |                     |                 |
|             |           | VTUU AD 2-25/Chart      | 23 Jul 15 |                     |                 |
|             |           | VTUU AD 2-27/Chart      | 23 Jul 15 |                     |                 |
|             |           | VTUU AD 2-29/Chart      | 23 Jul 15 |                     |                 |

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**GEN 2. TABLE AND CODES**  
**GEN 2.1 MEASURING SYSTEM, AIRCRAFT MARKINGS, HOLIDAYS**

**2.1.1 Units of measurement**

| QUANTITY                                                                                            | UNIT OF MEASUREMENT                                                 |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| -Distance used in navigation, position reporting, etc.-generally in excess of 2 to 3 nautical miles | -KILOMETRES or NAUTICAL MILES                                       |
| -Relatively short distances such as those relating to aerodrome (e.g. runway lengths)               | -METRES                                                             |
| -Altitudes, elevations and heights                                                                  | -METRES or FEET                                                     |
| -Horizontal speed, including wind speed                                                             | -KILOMETRES PER HOUR or KNOTS                                       |
| -Vertical speed                                                                                     | -METRES PER SECOND or FEET PER MINUTE                               |
| -Wind direction for landing and take-off                                                            | -DEGREES MAGNETIC                                                   |
| -Wind direction except for landing and take-off                                                     | -DEGREES TRUE                                                       |
| -Visibility                                                                                         | -KILOMETRES                                                         |
| -Runway visual range                                                                                | -METRES                                                             |
| -Altimeter setting                                                                                  | -HECTOPASCALS (MILLIBARS)                                           |
| -Temperature                                                                                        | -DEGREES CELSIUS                                                    |
| -Mass (Weight)                                                                                      | -KILOGRAMS or METRIC TON                                            |
| -Time                                                                                               | -HOURS AND MINUTES, THE DAY OF 24 HOURS BEGINNING AT MIDNIGHT (UTC) |
| <i>Visibility of less than 5 km may be given in metres.</i>                                         |                                                                     |

**2.1.2 Time system**

Co-ordinated Universal Time (UTC) is used in the air traffic and communication services and in documents published by the Aeronautical Information Services. When reporting time, the nearest full minute is used, e.g., 12 hr 40 min 40 sec is reported as 1241. Time checks to aircraft are accurate within 30 sec.

**2.1.3 Geodetic reference datum****2.1.3.1 Name/designation of datum**

All published geographical coordinates indicating latitude and longitude are expressed in terms of local datum; except the coordinates which have been transformed into the World Geodetic System - 1984 (WGS - 84) are indicated by remarks.

### 2.1.3.2 Area of application

The area of application for the published geographical coordinates coincides with the area of responsibility of the Aeronautical Information Services, i.e. the entire territory of Thailand as well as the airspace over the high seas encompassed by the Bangkok Flight Information Region in accordance with the regional air navigation agreement.

### 2.1.4 Aircraft nationality and registration marks

The nationality mark for aircraft registered in Thailand consists of the letters HS. The nationality mark is followed by a Hyphen and a registration mark consisting of 3 letters, e.g., HS-TDD.

### 2.1.5 Public holidays

| Name                                             | Date  |          |      |
|--------------------------------------------------|-------|----------|------|
| New Year's Day                                   | 1     | January  | 2016 |
| Makha Bucha Day                                  | 22    | February | 2016 |
| Chakri Memorial Day                              | 6     | April    | 2016 |
| Songkran Festival Days                           | 13-15 | April    | 2016 |
| Coronation Day                                   | 5     | May      | 2016 |
| Royal Ploughing Ceremony Day                     | 9     | May      | 2016 |
| Wisakha Bucha Day                                | 20    | May      | 2016 |
| Asarnha Bucha Day                                | 19    | July     | 2016 |
| Buddhist Lent Day                                | 20    | July     | 2016 |
| H.M. The Queen's Birthday                        | 12    | August   | 2016 |
| King Chulalongkorn Memorial Day                  | 23    | October  | 2016 |
| Substitution for King Chulalongkorn Memorial Day | 24    | October  | 2016 |
| H.M. The King's Birthday                         | 5     | December | 2016 |
| Constitution Day                                 | 10    | December | 2016 |
| Substitution for Constitution Day                | 12    | December | 2016 |
| New Year's Eve                                   | 31    | December | 2016 |
| New Year's Day                                   | 1     | January  | 2017 |
| Substitution for New Year's Eve                  | 2     | January  | 2017 |
| Substitution for New Year's Day                  | 3     | January  | 2017 |

## 3.2.5 List of Aeronautical Charts Available

| Type of series                               | Scale      | Name and /or number                           | Price (\$US) | Date        |
|----------------------------------------------|------------|-----------------------------------------------|--------------|-------------|
| Aerodrome Ground Movement Chart - ICAO       |            | Don Mueang International Airport, VTBD AD     | In AIP       | 23 Jul 2010 |
|                                              | 1 : 10,000 | Chiang Mai International Airport, VTCC AD     | "            | 3 Mar 2016  |
|                                              |            | Chiang Rai International Airport, VTCT AD     | "            | 10 Dec 2008 |
|                                              | 1 : 10,000 | Phuket International Airport, VTSP AD         | "            | 5 Mar 2015  |
|                                              | 1 : 15,000 | Rayong/U-Tapao International Airport, VTBU AD | "            | 10 Dec 2008 |
|                                              | 1 : 10,000 | Hat Yai International Airport, VTSS AD        | "            | 10 Mar 2011 |
|                                              | 1 : 10,000 | Sukhothai Airport, VTPO AD                    | "            | 14 Nov 2013 |
|                                              | 1 : 10,000 | Samui Airport, VTSM AD                        | "            | 17 Nov 2011 |
|                                              |            | Bangkok / Suvarnabhumi INTL                   | "            | 23 Jul 2015 |
|                                              | 1 : 20,000 | Bangkok / Suvarnabhumi INTL                   | "            | 10 Dec 2008 |
| Aerodrome Obstacle Chart - ICAO Type A (AOC) | 1 : 15,000 | Don Mueang International Airport, VTBD AD     | "            | 29 Jul 2010 |
|                                              | 1 : 20,000 | Chiang Mai International Airport, VTCC AD     | "            | 10 Dec 2008 |
|                                              | 1 : 12,500 | Chiang Rai International Airport, VTCT AD     | "            | 10 Dec 2008 |
|                                              |            | Phuket International Airport VTSP AD          | "            | 5 Mar 2015  |
|                                              |            | Rayong/U-Tapao International VTBU AD          | "            | 10 Dec 2008 |
|                                              | 1 : 1,500  | Hat Yai International Airport VTSS AD         | "            | 10 Mar 2011 |
|                                              | 1 : 1,500  | Sukhothai Airport, VTPO AD                    | "            | 10 Dec 2008 |
|                                              | 1 : 1,500  | Surat Thani/Samui Airport, VTSM AD            | "            | 17 Nov 2011 |
|                                              |            | Phuket International Airport, VTSP AD         | "            | 10 Dec 2008 |
|                                              |            | Phuket International Airport, VTSP AD         | "            | 10 Dec 2008 |
| Aerodrome Obstacle Chart - ICAO Type B (AOC) |            | Phuket International Airport, VTSP AD         | "            | 10 Dec 2008 |

### 3.2.5 List of Aeronautical Charts Available

| Type of series                                     | Scale       | Name and /or number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Price (\$US)                                                                      | Date                                                                              |
|----------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Aircraft Parking/Docking Chart - ICAO              | 1 : 10,000  | Don Mueang International Airport, VTBD AD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | In AIP                                                                            | 29 Jul 2012                                                                       |
|                                                    |             | Chiang Mai International Airport, VTCC AD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | "                                                                                 | 3 Mar 2016                                                                        |
|                                                    |             | Chiang Rai International Airport, VTCT AD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | "                                                                                 | 10 Dec 2008                                                                       |
|                                                    |             | Phuket International Airport, VTSP AD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | "                                                                                 | 10 Mar 2011                                                                       |
|                                                    |             | Hat Yai International Airport VTSS AD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | "                                                                                 | 10 Dec 2008                                                                       |
|                                                    |             | Bangkok / Suvarnabhumi INTL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | "                                                                                 | 23 Jul 2015                                                                       |
| Precision Approach Terrain Chart - ICAO            | 1 : 2,500   | Suvarnabhumi International Airport, RWY 01L / 19R<br>RWY 01R / 19L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | In AIP<br>"                                                                       | 10 Dec 2008<br>"                                                                  |
| Area Chart - ICAO                                  |             | Chiang Mai International Airport, VTCC AD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | "                                                                                 | 10 Dec 2008                                                                       |
|                                                    |             | Hat Yai International Airport VTSS AD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | "                                                                                 | 10 Dec 2008                                                                       |
| Standard Departure Chart - Instrument - ICAO (SID) | 1 : 600,000 | Bangkok / Don mueang International Airport<br>SID RNAV RWY 21L/21R (BRUCE3A)<br>SID RNAV RWY 21L/21R (EAGLE1A)<br>SID RNAV RWY 21L/21R (GRANT3A)<br>SID RNAV RWY 21L/21R (HELEN5A)                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | In AIP<br>"<br>"<br>"                                                             | 24 Jul 2014<br>"<br>"<br>"                                                        |
|                                                    |             | Bangkok / Suvarnabhumi International Airport<br>RNAV(GNSS) SIDs – RWY 19L – ANTIC 1C<br>/ RWY 19R – ANTIC 1B<br>RNAV(GNSS) SIDs – RWY 19L – COSMO 1C<br>/ RWY 19R – COSMO 1B<br>RNAV(GNSS) SIDs – RWY 19L – SIMON 1C<br>/ RWY 19R – SIMON 1B<br>RNAV(GNSS) SIDs – RWY 19R – COMET 1B<br>RNAV(GNSS) SIDs – RWY 19L – SEESA 1C<br>RNAV(GNSS) SIDs – RWY 19L – NESTA 1C<br>/ RWY 19R – NESTA 1B<br>RNAV(GNSS) SIDs – RWY 01L – JEANS 1B<br>/ RWY 01R – JEANS 1C<br>RNAV(GNSS) SIDs – RWY 01L – JORGE 1B<br>/ RWY 01R – JORGE 1C<br>RNAV(GNSS) SIDs – RWY 01L – CHEST 1B<br>/ RWY 01R – CHEST 1C<br>RNAV(GNSS) SIDs – RWY 01L – FIRNN 1B<br>/ RWY 01R – FIRNN 1C | In AIP<br>"<br>"<br>"<br>"<br>"<br>"<br>"<br>"<br>"<br>"<br>"<br>"<br>"<br>"<br>" | 10 Dec 2008<br>"<br>"<br>"<br>"<br>"<br>"<br>"<br>"<br>"<br>"<br>"<br>"<br>"<br>" |
|                                                    |             | Chiang Mai International Airport<br>RNAV(SID) – RWY 36 – WARMY 1N WEEWA 1N<br>RNAV(SID) – RWY 36 – WARMY 1X WEEWA 1X<br>RNAV(SID) – RWY 36 – NUNWA 1N EASEE 1N<br>EMMET 1N ANYAR 1N PANTA 1N<br>ALLAY 1N ZUGAR 1N ZARDY 1N                                                                                                                                                                                                                                                                                                                                                                                                                                   | In AIP<br>"<br>"<br>"                                                             | 5 Mar 2015<br>"<br>"                                                              |

## GEN 4.2 AIR NAVIGATION SERVICES CHARGES

Air Navigation Service Charges by Aeronautical Radio of Thailand Ltd.

For the provision of International and Domestic Communications Services, Area Control, Approach Control and Aerodrome Control Services as described in AIP-Thailand, Aeronautical Radio of Thailand Ltd. (AEROTHAI) will charge operators the Air Navigation Service (ANS) charges at the following rates:

**1. Customers****1.1 Member Airlines**

Member airlines are airline companies operating regularly scheduled services into and/or domestic services in the Kingdom of Thailand (Thailand) scheduled in the published timetables, whose applications to become the Company's shareholders have been approved by the Company. They have responsibility for the Company's finance. Eligible airlines can apply to be the Company's member airline by submitting a letter of application together with a copy of flight schedule as published in the timetable, a letter of permission from the Civil Aviation Authority of Thailand, a copy of the certificate of the airline company's registration and a Power of Attorney (authorizing the person to act on behalf of the airline) with a copy of passport or I.D. card. For more information, please visit [www.aerothai.co.th/shareholder](http://www.aerothai.co.th/shareholder)

**1.2 Non-Member Airlines**

Non-member Airlines are airline companies which normally operate scheduled or non-scheduled services into and/or domestic services in Thailand.

**1.3 Charter Flights**

Charter Flights operates for tourists and/or goods into/from Thailand by non-member airlines.

**1.4 School Flights**

School Flights are operated with small aircraft with maximum take-off weight not exceeding 5.7 tonnes and are performed by students as trainees or pilots within the frames of training programs of training schools accredited by the Civil Aviation Authority of Thailand.

**2. Structure of Air Navigation Service Charges (ANS):**

$$\text{ANS Charges} = \text{En Route Charge} + \text{Terminal Charge}$$

|                     |                          |                       |             |
|---------------------|--------------------------|-----------------------|-------------|
| 2.1 En Route Charge | = $\sqrt{\text{MTOW}/X}$ | x Distance/250 Km     | x Unit Rate |
| 2.2 Terminal Charge | = $\sqrt{\text{MTOW}}$   | x Terminal Multiplier | x Unit Rate |

Where the value of X is:

|      |                    |            |
|------|--------------------|------------|
| MTOW | = 0 – 100 Tonne,   | X = 50     |
| MTOW | = 101 – 200 Tonne, | X = MTOW/2 |
| MTOW | > 200 Tonne,       | X = 100    |

**Descriptions:****a) MTOW**

**MTOW** is the Maximum Take-off Weight of aircraft in 'metric ton' as specified by the factory, rounding up fraction to the next whole number. The calculation of ANS charges will be based on MTOW which is provided by AEROTHAI.

(See details in [www.aerothai.co.th/airlineservices](http://www.aerothai.co.th/airlineservices))

**b) Distance**

**Distance** is the great circle distance travelled within Bangkok FIR in 'kilometer', rounding up fraction to the next whole number. For each landing and take-off within the Bangkok FIR, 50 kilometers are deducted from the great circle distance. If the great circle distance after being deducted for landing/take-off is less than 250 kilometers, it will be calculated as 250 kilometers (Distance Factor = 1). The calculation of ANS charges will be based on a distance factor which is provided by AEROTHAI.

(See details in [www.aerothai.co.th/airlineservices](http://www.aerothai.co.th/airlineservices))

**c) Terminal Multiplier**

|                                                                                  |        |
|----------------------------------------------------------------------------------|--------|
| Suvarnabhumi International Airport                                               | = 0.90 |
| Don Mueang International Airport                                                 | = 0.50 |
| Regional International Airports                                                  | = 0.50 |
| (Chiang Mai, Mae Fah Luang -Chiang Rai, Phuket & Hat Yai International Airports) |        |
| Provincial Airports                                                              | = 0.05 |
| U-Tapao Rayong Pattaya International Airport                                     | = 0    |

**d) Unit Rate**

|                 |   |                     |
|-----------------|---|---------------------|
| En Route Charge | = | 3,500 Baht per unit |
| Terminal Charge | = | 500 Baht per unit   |

- Note:
1. The calculation of ANS charges for Member Airlines and Charter Flights is specified at the Unit Rate stated above which in one-third of Non-Member Airlines' calculation.
  2. The specified ANS charges hereunder are applicable to School Flights, effective from 1 January 2016 onwards.

| Part | Types of Charges                                                                                  | 4 Training Hub Airports<br>(Hua Hin, Nakhon Ratchasima,<br>Phitsanulok, Khon Kaen)                                    | Non-Training Hub Airports                                                                                     |
|------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| 1    | En Route Charge                                                                                   | 10% of Member Airlines' Charge                                                                                        | 20% of Member Airlines' Charge                                                                                |
| 2    | Terminal Charge<br>(Departure/Arrival<br>(DEP/ARR))                                               | 50% of Member Airlines' Charge                                                                                        | 100% of Member Airlines' Charge                                                                               |
| 3    | 3.1 Terminal Charge<br>(Touch & Go Landing (TGL),<br>Low Approach (LA),<br>Missed Approach (MAT)) | - 50% of Member Airlines' Charge<br>- DEP and ARR together counted<br>as 1 flight<br>- Only the final flight charged  | - 100% of Member Airlines' Charge<br>- DEP and ARR together counted<br>as 1 flight<br>- Every flight charged  |
|      | 3.2 Terminal Charge<br>(Stop & Go Landing (SGL))                                                  | - 50% of Member Airlines' Charge<br>- DEP and ARR together counted<br>as 2 flights<br>- Only the final flight charged | - 100% of Member Airlines' Charge<br>- DEP and ARR together counted<br>as 2 flights<br>- Every flight charged |

- 1) In order to promote the government's policy to support domestic flights, 25% discount on ANS charges is applied to domestic flights including School Flights.
- 2) Overfly ANS Charges are 1.45 times of International Flight ANS Charges.

**3. Payment**

- 3.1 Setting the payment of ANS charges is the responsibility of the aircraft operator or the owner.
- 3.2 Payment of ANS Charges can be made by cash at AEROTHAI's offices at either the head office or the airports. Otherwise, the payment can be transferred to the following bank account:

|              |   |                                             |
|--------------|---|---------------------------------------------|
| Account name | : | Aeronautical Radio of Thailand Ltd.         |
| Bank name    | : | Krung Thai Bank PCL.                        |
| Branch       | : | Queen Sirikit National<br>Convention Center |
| Account no.  | : | 009-1-10246-4                               |
| Swift code   | : | KRTHTHBK                                    |

- 3.3 For scheduled flight, invoice will be billed on a monthly basis, and the payment must be made within the due date presented on the invoice.
- 3.4 For non-scheduled flight, airlines shall have a recognized agent in Thailand, and the payment must be made by the agent to AEROTHAI at the end of the month. Where there is no agent, payment must be made to AEROTHAI at the airports before departure or to our bank account stated above before landing or overflying Thailand.

**4. Exemptions**

- 4.1 Foreign military aircraft;
- 4.2 Aircraft used for the operation of the foreign governments which carries the representatives of that government to or through Thailand;
- 4.3 Aircraft which the Civil Aviation Board considered necessarily to be used in special government services; and
- 4.4 Aircraft of flying clubs as well as private aircraft with MTOW not exceeding 5.7 tonnes which operated on a non-commercial or non-profit basis.

## 5. Contact

|                |   |                                                                                                                    |
|----------------|---|--------------------------------------------------------------------------------------------------------------------|
| Postal address | : | 1. The President<br>Aeronautical Radio of Thailand Ltd.<br>102 Ngamdu-plee, Tungmahamek<br>Bangkok 10120, Thailand |
| Fax number     | : | +66 2285 9599                                                                                                      |
| AFTN           | : | VTBBYTYX                                                                                                           |
| Website        | : | <a href="http://www.aerothai.co.th">http://www.aerothai.co.th</a>                                                  |
|                |   |                                                                                                                    |
| Fax number     | : | 2. Director, Revenue and Accounting Department<br>+66 2285 9203                                                    |
| SITA           | : | BKKTOYF                                                                                                            |
| AFTN           | : | VTBBYFYX                                                                                                           |
| Email          | : | <a href="mailto:accounts@aerothai.co.th">accounts@aerothai.co.th</a>                                               |

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ENR 2.1 FIR, UIR, TMA



| Name<br>Lateral limits<br>Vertical limits<br>Class of airspace                                                                                                                                                                                                                                                                                                                                                                                                                                               | Unit providing<br>service                             | Call sign<br>Languages<br>Area and conditions of<br>use/Hours of service | Frequency/Purpose       | Remarks                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2                                                     | 3                                                                        | 4                       | 5                                                                                                                                                                                                                                                     |
| <b>38. Ubon Controlled Airspaces</b><br><br><b>A. Ubon Control Zone</b><br>The airspace within a circle of 10 NM radius centred on UBL DVOR/DME (151442.71N1045157.30E)<br>Vertical limit : up to but not including 3 000 ft AGL<br>Class of airspace: C<br><br><b>B. Ubon Terminal Control Area</b><br>The airspace enclosed by a circle of 30 NM radius centred on UBL DVOR/DME (151442.71N1045157.30E)<br>EL 200<br>2 000 ft AGL<br>Class of airspace: C                                                  | Bangkok Approach Control Centre<br>(Ubon Sector)      | Ubon Approach<br>(En, Thai)<br>2330-1430*                                | 123.5 MHz / 257.8 MHz** | *TWR hours of services :<br>H24<br>VTBZAZX : Tel 02-2859695<br>Fax 02-2859610<br>VTUUTZX : Tel 01-3081943<br>(Mobile)<br>**RCAG                                                                                                                       |
| <b>39. Udon Controlled Airspaces</b><br><br><b>A. Udon Control Zone</b><br>The airspace within a circle of 10 NM radius centred on UDN DVOR/DME (172304.20N1024630.05E)<br>Vertical limit : up to but not including 3 000 ft AGL<br>Class of airspace : C<br><br><b>B. Udon Terminal Control Area</b><br>The airspace enclosed by a circle of 30 NM radius centred on UDN DVOR/DME (172304.20N1024630.05E)<br>Except airspace overlapping Vientiane FIR<br>ALT 11 000 ft<br>2 000 ft<br>Class of airspace: C | Bangkok Approach Control Centre<br>(Khon Kaen Sector) | Udon Approach<br>(En, Thai)<br>2330-1430*                                | 126.2 MHz / 265.9 MHz** | *TWR hours of services :<br>Daily 2300-1430<br>VTBZAZX : Tel 02-2859695<br>Fax 02-2859610<br>VTUDZTX : Tel 081-8095016<br>(Mobile)<br>**RCAG<br>If unable to contact Approach Control Centre/Office attempt to contact tower on appropriate frequency |

## ENR 3.1 ATS ROUTES – INTERNATIONAL

| Route designator Name of significant Points Coordinates (WGS-84)                                                                                                                                                                                      | Track<br>MAG(GEO)<br>)<br>VOR RDL<br>DIST<br>(COP)                                                    | Upper limits<br>Lower limits<br>Minimum flight altitude<br>Airspace classification<br>(Refer to ENR 1.4-1) | Lateral<br>limits<br>NM | Direction of<br>Cruising levels |      | Remarks<br>Controlling units<br>Frequency                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------|------|--------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                       |                                                                                                       |                                                                                                            |                         | Odd                             | Even |                                                                                |
| 1                                                                                                                                                                                                                                                     | 2                                                                                                     | 3                                                                                                          | 4                       | 5                               |      | 6                                                                              |
| <b>R201</b><br>▲ BANGKOK DVOR/DME (BKK)<br>135336.8N 1003546.3E<br><br>▲ U-TAPAO DVOR/DME (BUT)<br>124006.3N 1005948.0E                                                                                                                               | 162<br>342<br>77 NM                                                                                   | FL 460<br>ALT 6,500FT<br><br>ALT 7,000FT                                                                   | *                       | ↓                               | ↑    | Longitudinal separation between<br>aircraft 10 mins.<br>Excluding area of VTP7 |
| <b>R202</b><br>▲ TATEL<br>172904.8N 984548.8E<br><br>▲ PHRAE<br>180802.78N 1000958.35E                                                                                                                                                                | 064<br>244<br><br>89NM                                                                                | FL 460<br>ALT 12,500FT / FL125<br><br>FL130                                                                | 10                      | ↓                               | ↑    |                                                                                |
| <b>R203</b><br>▲ PHUKET DVOR/DME (PUT)<br>080654.83N 981822.69E<br><br>▲ SAPAM<br>080434N 973300E                                                                                                                                                     | 268<br>088<br><br>45 NM                                                                               | FL 460<br>ALT 9,500FT<br><br>ALT 10,000FT                                                                  | *                       | ↓                               | ↑    | Longitudinal separation between<br>aircraft 10 mins.                           |
| <b>R207</b><br>▲ SISUK<br>194804.10N 0980242.90E<br><br>▲ MACHI<br>191306.47N 0983346.32E<br><br>▲ CHIANG MAI DVOR/DME (CMA)<br>184558.03N 0985740.55E<br><br>▲ NAN DVOR/DME (NAN)<br>184832.76N 1004657.31E<br><br>▲ ANBOK<br>183634.60N 1011247.60E | 141<br>321<br>46 NM<br><br>141<br>321<br>35 NM<br><br>088<br>269<br>104 NM<br><br>116<br>296<br>27 NM | FL 460<br>ALT 8,000FT<br><br>ALT 9,000FT<br><br>FL 460<br>ALT 9,500FT<br><br>ALT 10,000FT                  | 20                      | ↓                               | ↑    | Longitudinal separation<br>between aircraft 15 mins.                           |
| <b>R215</b><br>▲ CHIANG RAI DVOR/DME (CTR)<br>195653.65N 995300.12E<br><br>▲ NAN DVOR/DME (NAN)<br>184832.76N 1004657.31E<br><br>▲ TOMIP<br>191104.5N 1011547.5E                                                                                      | 143<br>323<br>85 NM<br><br>051<br>231<br>35 NM                                                        | FL 460<br>ALT 9,500FT<br><br>ALT 10,000FT                                                                  | *                       | ↓                               | ↑    | Longitudinal separation between<br>aircraft 15 mins.                           |
| <b>R325</b><br>▲ IKULA<br>100006.9N 972114.0E<br><br>▲ PHUKET DVOR/DME (PUT)<br>080654.83N 981822.69E<br><br>▲ UTHAI<br>070007.7N 992948.9E<br><br>▲ DUBAX<br>062555.9N 1000736.6E                                                                    | 153<br>333<br>126 NM<br><br>134<br>313<br>97 NM<br><br>132<br>312<br>51 NM                            | FL 270<br>ALT 9,000FT<br>ALT 10,000FT<br><br>FL 460<br>ALT 9,500FT<br>ALT 10,000FT                         | *                       | ↓                               | ↑    | Longitudinal separation<br>between aircraft 10 mins.                           |
| *For the width of Airways see ENR 2.1-1                                                                                                                                                                                                               |                                                                                                       |                                                                                                            |                         |                                 |      |                                                                                |

## ENR 3.1 ATS ROUTES – INTERNATIONAL

| Route designator Name of significant Points Coordinates (WGS-84)                                                                                                                                                        | Track<br>MAG(GEO)<br>VOR RDL<br>DIST<br>(COP)                                                   | Upper limits<br>Lower limits<br>Minimum flight altitude<br>Airspace classification<br>(Refer to ENR 1.4-1) | Lateral<br>limits<br>NM | Direction of<br>Cruising levels |      | Remarks<br>Controlling units<br>Frequency                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                         |                                                                                                 |                                                                                                            |                         | Odd                             | Even |                                                                                                                                                     |
| 1                                                                                                                                                                                                                       | 2                                                                                               | 3                                                                                                          | 4                       | 5                               |      | 6                                                                                                                                                   |
| <b>R334</b><br>▲ RAYONG DVOR/DME (RYN)<br>124648.3N 1014041.7E<br>▲ KOH KONG<br>1136.9N 10300.0E<br>▲ PHNOM PENH VOR (PNH)<br>1132.8N 10450.5E                                                                          | <u>132</u><br>312<br>103 NM<br><br><u>092</u><br>272<br>109 NM                                  | <u>FL 460</u><br>FL 165<br><br>FL 170                                                                      | 20                      | ↓                               | ↑    | Longitudinal separation between aircraft 10 mins.                                                                                                   |
| <b>R345</b><br>▲ ROJET DVOR/DME (ROT)<br>160700.59N 1034619.45E<br>▲ GRASO<br>150650.28N 1034716.84E<br>▲ PASAT<br>145507.93N 1034728.55E<br>▲ BIDE M<br>142153.57N 1034750.07E                                         | <u>180</u><br>360<br>60 NM<br><br><u>180</u><br>360<br>12 NM<br><br><u>180</u><br>360<br>33 NM  | <u>FL 460</u><br>FL 215<br><br>FL 220                                                                      |                         | ↓                               | ↑    |                                                                                                                                                     |
| <b>R468</b><br>▲ BANGKOK DVOR/DME (BKK)<br>135336.8N 1003546.3E<br>▲ GOMES<br>132406.1N 1013505.7E<br>▲ BOKAK<br>125736.3N 1022947.3E<br>▲ PHNOM PENH VOR (PNH)<br>1132.8N 10450.5E                                     | <u>117</u><br>297<br>65 NM<br><br><u>116</u><br>296<br>60 NM<br><br><u>121</u><br>302<br>161 NM | <u>FL 460</u><br>ALT 7,500FT<br><br>ALT 8,000FT                                                            | *                       | ↓                               | ↑    | Longitudinal separation between aircraft 10 mins for inbound traffic.<br><br>Longitudinal separation between aircraft 10 mins for outbound traffic. |
| <b>R470</b><br>▲ VIENTIANE VOR/DME (VTN)<br>180037N 1023226E<br>▲ UDON DVOR/DME (UDN)<br>172304.20N 1024630.05E<br>▲ ROI ET DVOR/DME (ROT)<br>160700.59N 1034619.45E<br>▲ UBON DVOR/DME (UBL)<br>151442.71N 1045157.30E | <u>339</u><br>159<br>40 NM<br><br><u>143</u><br>323<br>95 NM<br><br><u>129</u><br>309<br>82 NM  | <u>FL 460</u><br>ALT 3,500FT<br>ALT 4,000FT<br><br><u>FL 460</u><br>ALT 6,500FT<br>ALT 7,000FT             | *                       | ↓                               | ↑    | Longitudinal separation between aircraft 10 mins.                                                                                                   |
| <b>R474</b><br>▲ BANGKOK DVOR/DME (BKK)<br>135336.8N 1003546.3E<br>▲ ALBOS<br>144441.7N 1010141.9E<br>▲ CHUM PHAE DVOR/DME (CMP)<br>163811.3N 1015905.4E<br>▲ VIENTIANE VOR/DME (VTN)<br>180037N 1023226E               | <u>026</u><br>206<br>57 NM<br><br><u>026</u><br>206<br>126 NM<br><br><u>021</u><br>201<br>88 NM | <u>FL 460</u><br>ALT 6,500FT<br>ALT 7,000FT<br><br><u>FL 460</u><br>ALT 3,500FT<br>ALT 4,000FT             | *                       | ↓                               | ↑    | Longitudinal separation between aircraft 15 mins.                                                                                                   |

\*For the width of Airways see ENR 2.1-1

## ENR 3.1 ATS ROUTES-DOMESTIC

| Route designator Name of significant Points Coordinates (WGS-84)                                                                                                                                                                                                                                                                | Track<br>MAG(GEO)<br>VOR RDL<br>DIST<br>(COP)                                                                                                      | Upper limits<br>Lower limits<br>Minimum flight<br>altitude<br>Airspace classification<br>(Refer to ENR 1.4-1) | Lateral<br>limits<br>NM | Direction of<br>Cruising levels |      | Remarks Controlling units<br>Frequency                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------|------|---------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                    |                                                                                                               |                         | Odd                             | Even |                                                                                             |
| 1                                                                                                                                                                                                                                                                                                                               | 2                                                                                                                                                  | 3                                                                                                             | 4                       | 5                               |      | 6                                                                                           |
| <b>W8</b><br>▲ TAKHLI NDB (TL)<br>151608.09N 1001751.05E<br>▲ KORAT DVOR/DME (KRT)<br>145502.35N 1020823.32E                                                                                                                                                                                                                    | <u>101</u><br>281<br>109 NM                                                                                                                        | <u>FL 460</u><br>ALT 6,500FT<br>ALT 7,000FT                                                                   | *                       | ↓                               | ↑    | Longitudinal separation<br>Between aircraft 10 mins.                                        |
| <b>W9</b><br>▲ MAE HONG SON DVOR/DME (MHS)<br>191910.73N 0975443.50E<br>▲ CHIANG MAI DVOR/DME (CMA)<br>184558.03N 0985740.55E<br>△ SARIM<br>173029.97N 0994737.09E<br>▲ PHITSANULOK DVOR/DME (PSL)<br>164613.34N 1001728.70E<br>▲ TAKHLI NDB (TL)<br>151608.09N 1001751.05E<br>▲ BANGKOK DVOR/DME (BKK)<br>135336.8N 1003546.3E | <u>119</u><br>299<br>68 NM<br><u>147</u><br>327<br>89 NM<br><u>147</u><br>327<br>53 NM<br><u>180</u><br>360<br>90 NM<br><u>168</u><br>348<br>84 NM | <u>FL 460</u><br>ALT 8,500FT<br>ALT 9,000FT<br><u>FL 460</u><br>ALT 6,500FT<br>ALT 7,000FT                    | *                       | ↓                               | ↑    | Excluding restricted area VTR<br>5.<br>Longitudinal separation<br>Between aircraft 10 mins. |
| <b>W10</b><br>▲ KAMPHAENG SAEN DVOR/DME (KPS)<br>140956.0N 0995715.0E<br>▲ VUTHI<br>145006.95N 0995725.34E<br>▲ TAKHLI NDB (TL)<br>151608.09N 1001751.05E                                                                                                                                                                       | <u>360</u><br>180<br>40 NM<br><u>037</u><br>217<br>33 NM                                                                                           | <u>FL 260</u><br>ALT 5,500FT<br>ALT 6,000FT                                                                   | *                       | ↓                               | ↑    | For Military use only.                                                                      |
| <b>W12</b><br>▲ CHIANG MAI DVOR/DME (CMA)<br>184558.03N 0985740.55E<br>▲ NAN DVOR/DME (NAN)<br>184832.76N 1004657.31E                                                                                                                                                                                                           | <u>088</u><br>268<br>104 NM                                                                                                                        | <u>FL 460</u><br>ALT 7,000FT<br>ALT 8,000FT                                                                   | *                       | ↓                               | ↑    | Longitudinal separation<br>Between aircraft 10 mins.                                        |
| <b>W13</b><br>▲ LAMPANG DVOR/DME (LPN)<br>181636.75N 993008.64E<br>▲ PHRAE DVOR/DME (PAE)<br>180802.78N 1000958.35E                                                                                                                                                                                                             | <u>103</u><br>283<br>39 NM                                                                                                                         | <u>FL 460</u><br>ALT 6,000FT<br>ALT 7,000FT                                                                   | *                       | ↓                               | ↑    | Longitudinal separation<br>between aircraft 10 mins.                                        |
| <b>W14</b><br>▲ PHUKET DVOR/DME (PUT)<br>080654.83N 981822.69E<br>▲ TRANG DVOR/DME (TRN)<br>073032.17N 993733.67E<br>▲ HAT YAI DVOR/DME (HTY)<br>065602.75N 1002316.47E<br>▲ PATTANI NDB (PT)<br>064718.45N 1010852.51E<br>▲ NARATHIWAT DVOR/DME (NTW)<br>063138.24N 1014442.48E                                                | <u>115</u><br>295<br>87 NM<br><u>127</u><br>307<br>57 NM<br><u>101</u><br>281<br>46 NM<br><u>114</u><br>294<br>39 NM                               | <u>FL 460</u><br>ALT 6,500FT<br>ALT 7,000FT                                                                   | 10                      | ↓                               | ↑    | Longitudinal separation<br>between aircraft 10 mins.                                        |

\*For the width of Airways see ENR 2.1-1

## ENR 3.1 ATS ROUTES-DOMESTIC

| Route designator Name of significant Points Coordinates (WGS-84)                                                                                                                                                                                                                                                                                        | Track<br>MAG(GEO)<br>VOR RDL<br>DIST<br>(COP)                                                                                                                                                                    | Upper limits<br>Lower limits<br>Minimum flight<br>altitude<br>Airspace<br>classification<br>(Refer to ENR 1.4-1) | Lateral<br>limits<br>NM | Direction of<br>Cruising levels |      | Remarks Controlling units<br>Frequency               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------|------|------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                  |                                                                                                                  |                         | Odd                             | Even |                                                      |
| 1                                                                                                                                                                                                                                                                                                                                                       | 2                                                                                                                                                                                                                | 3                                                                                                                | 4                       | 5                               |      | 6                                                    |
| <b>W15</b><br>▲ CHIANG MAI DVOR/DME (CMA)<br>184558.03N 0985740.55E<br>▲ PHRAE DVOR/DME (PAE)<br>180802.78N 1000958.35E<br>△ PANKU<br>172035.0N 1005605.8E<br>▲ LOEI DVOR/DME (LOY)<br>172649.38N 1014323.12E<br>▲ UDON DVOR/DME (UDN)<br>172304.20N 1024630.05E<br>▲ SAKON NAKHON DVOR/DME (SKN)<br>171250.89N 1040812.34E                             | <u>119</u><br>299<br>78 NM<br><u>137</u><br>317<br>65 NM<br><u>082</u><br>262<br>45 NM<br><u>094</u><br>274<br>61 NM<br><u>097</u><br>277<br>79 NM                                                               | FL 460<br>ALT 6,500FT<br><br>ALT 7,000FT                                                                         | *                       | ↓                               | ↑    | Longitudinal separation<br>between aircraft 10 mins. |
| <b>W16</b><br>▲ CHIANG MAI DVOR/DME (CMA)<br>184558.03N 0985740.55E<br>▲ UTTAR<br>174304.9N 1002706.0E<br>▲ CHUM PHAE DVOR/DME (CMP)<br>163811.3N 1015905.4E<br>▲ KHON KAEN DVOR/DME (KKN)<br>162814.73N 1024716.07E                                                                                                                                    | <u>126</u><br>306<br>106 NM<br><u>126</u><br>306<br>109 NM<br><u>102</u><br>282<br>47 NM                                                                                                                         | FL 460<br>ALT 6,500FT<br><br>ALT 7,000FT                                                                         | *                       | ↓                               | ↑    | Longitudinal separation<br>between aircraft 10 mins. |
| <b>W17</b><br>▲ RANONG DVOR/DME (RAN)<br>094643.18N 983502.11E<br>▲ SURAT DVOR/DME (STN)<br>090746.24N 990805.09E<br>▲ HAT YAI DVOR/DME (HTY)<br>065602.75N 1002316.47E                                                                                                                                                                                 | <u>140</u><br>320<br>51 NM<br><u>150</u><br>330<br>151 NM                                                                                                                                                        | FL 460<br>ALT 6,500FT<br>ALT 7,000FT<br><br>FL 460<br>ALT 7,500FT<br>ALT 8,000FT                                 | 10                      | ↓                               | ↑    | Longitudinal separation<br>between aircraft 10 mins. |
| <b>W19</b><br>▲ BANGKOK DVOR/DME (BKK)<br>135336.80N 1003546.30E<br>△ POLAK<br>132106.10N 1003454.30E<br>▲ GUTSO<br>124819.94N 1003454.30E<br>▲ REGOS<br>120006.50N 1003454.30E<br>△ DIRAX<br>110006.70N 1003248.30E<br>▲ UPNEP<br>094213.10N 1002936.40E<br>△ ADNEP<br>080343.50N 1010318.20E<br>▲ NARATHIWAT DVOR/DME (NTW)<br>063138.24N 1014442.48E | <u>182</u><br>002<br>32 NM<br><u>181</u><br>001<br>33 NM<br><u>181</u><br>001<br>48 NM<br><u>183</u><br>003<br>60 NM<br><u>183</u><br>003<br>78 NM<br><u>161</u><br>341<br>104 NM<br><u>156</u><br>336<br>100 NM | FL 460<br>ALT 6,500FT<br><br>ALT 7,000FT                                                                         | *                       | ↓                               | ↑    | Longitudinal separation<br>between aircraft 10 mins. |

\*For the width of Airways see ENR 2.1-1

## ENR 3.1 ATS ROUTES-DOMESTIC

| Route designator Name of significant points Coordinates (WGS-84)                                                                                                                                                                                                                                                                                                                                                 | Track<br>MAG(GEO)<br>VOR RDL<br>DIST<br>(COP)                                                                                                                                                                                                                            | Upper limits<br>Lower limits<br>Minimum flight altitude<br>Airspace classification<br>(Refer to ENR 1.4-1)       | Lateral<br>limits<br>NM | Direction of<br>Cruising levels                                                       |      | Remarks Controlling units<br>Frequency               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------|------|------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                          |                                                                                                                  |                         | Odd                                                                                   | Even |                                                      |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                | 2                                                                                                                                                                                                                                                                        | 3                                                                                                                | 4                       | 5                                                                                     |      | 6                                                    |
| <b>W32</b><br>▲ REGOS<br>120006.5N 1003454.3E<br>▲ GOKEX<br>111814.72N 1002543.59E<br>▲ SUPOJ<br>101642.14N 1001220.33E<br>▲ SAMUI DVOR/DME (SMU)<br>093249.47N 1000342.27E<br>▲ DORNA<br>092458.70N 0994614.10E<br>▲ SURAT DVOR/DME (STN)<br>090746.24N 0990805.09N<br>▲ TEDOS<br>084833.61N 0990507.41E<br>▲ KRABI DVOR/DME (KBI)<br>080627.19N 0985839.07E<br>▲ TRANG DVOR/DME (TRN)<br>073032.17N 993733.67E | <u>192</u><br>012<br>43 NM<br><br><u>192</u><br>012<br>63 NM<br><br><u>191</u><br>011<br>45 NM<br><br><u>246</u><br>066<br>19 NM<br><br><u>246</u><br>066<br>41 NM<br><br><u>189</u><br>009<br>20 NM<br><br><u>189</u><br>009<br>42 NM<br><br><u>133</u><br>313<br>53 NM | FL 460<br>ALT 3,500FT<br><br>ALT 4,000FT<br><br><br><br><br><br><br><br>FL 460<br>ALT 7,500FT<br><br>ALT 8,000FT | 10                      |   |      | Longitudinal separation<br>between aircraft 10 mins. |
| <b>W33</b><br>▲ PHUKET DVOR/DME (PUT)<br>080654.83N 981822.69E<br>▲ RECNO<br>083425.3N 992824.9E<br>▲ SAMUI DVOR/DME (SMU)<br>093249.47N 1000342.27E<br>▲ UPNEP<br>094213.1N 1002936.4E<br>▲ MABKO<br>094808.96N 1003543.02E<br>▲ SURIX<br>10595908N 1015014.56E<br>▲ TRAT NDB/DME(TRT)<br>121628.10N 1021850.08E<br>▲ RAYONG DVOR/DME(RYN)<br>124648.3N 1014041.7E                                              | <u>068</u><br>248<br>75 NM<br><br><u>031</u><br>211<br>68 NM<br><br><u>070</u><br>250<br>27 NM<br><br><u>046</u><br>226<br>8 NM<br><br><u>046</u><br>226<br>103 NM<br><br><u>020</u><br>200<br>82 NM<br><br><u>309</u><br>129<br>48 NM                                   | FL 460<br>ALT 9,000FT<br>ALT 10,000FT<br><br><br><br><br><br><br>FL 460<br>ALT 6,500FT<br><br>ALT 7,000FT        | 10                      |  |      | Longitudinal separation<br>between aircraft 10 mins. |

ENR 3.1 ATS ROUTES-DOMESTIC

| Route designator Name of significant points Coordinates (WGS-84)                                                                                                                                           | Track<br>MAG(GEO)<br>VOR RDL<br>DIST<br>(COP)                      | Upper limits<br>Lower limits<br>Minimum flight altitude<br>Airspace classification<br>(Refer to ENR 1.4-1) | Lateral<br>limits<br>NM | Direction of<br>Cruising levels |      | Remarks Controlling units<br>Frequency               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------|------|------------------------------------------------------|
|                                                                                                                                                                                                            |                                                                    |                                                                                                            |                         | Odd                             | Even |                                                      |
| 1                                                                                                                                                                                                          | 2                                                                  | 3                                                                                                          | 4                       | 5                               |      | 6                                                    |
| <b>W34</b><br>▲ MENEX<br>110830.7N 994542.6E<br>▲ CHUMPHON DVOR/DME (CPN)<br>104240.21N 992156.03E<br>▲ RANONG DVOR/DME (RAN)<br>094643.18N 983502.11E<br>▲ PHUKET DVOR/DME (PUT)<br>080654.83N 981822.69E | 222<br>042<br>35 NM<br>220<br>040<br>72 NM<br>189<br>009<br>101 NM | FL 460<br>ALT 6,500FT<br>ALT 7,000FT                                                                       | 10                      | ↓                               | ↑    | Longitudinal separation<br>between aircraft 10 mins. |
| <b>W35</b><br>▲ UPNEP<br>094213.1N 1002936.4E<br>▲ PINUN<br>092825.16N 1002305.61E<br>▲ NAKHON SI DVOR/DME (NKS)<br>083229.95N 995648.67E<br>▲ TRANG DVOR/DME (TRN)<br>073032.17N 993733.67E               | 205<br>025<br>15 NM<br>205<br>025<br>62 NM<br>197<br>017<br>65 NM  | FL 460<br>ALT 7,500FT<br>ALT 8,000FT                                                                       | 10                      | ↓                               | ↑    | Longitudinal separation<br>between aircraft 10 mins. |
| <b>W36</b><br>▲ CHIANG MAI DVOR/DME (CMA)<br>184558.03N 0985740.55E<br>▲ MACHI<br>191306.47N 0983346.32E<br>▲ MAE HONG SON DVOR/DME (MHS)<br>191910.73N 0975443.50E                                        | 321<br>141<br>35 NM<br>280<br>100<br>38 NM                         | FL 460<br>ALT 8,000FT<br>ALT 9,000FT                                                                       | 10                      | ↓                               | ↑    | Longitudinal separation<br>between aircraft 10 mins. |
| <b>W38</b><br>▲ RAMEI<br>150103.57N 1025940.72E<br>▲ BURI RUM DVOR/DME (BRM)<br>151422.43N 1031531.59E<br>▲ ROIET DVOR/DME (ROT)<br>160700.59N 1034619.45E                                                 | 050<br>230<br>20 NM<br>029<br>209<br>60 NM                         | FL 460<br>ALT 6,500FT<br>ALT 7,000FT                                                                       | *                       | ↓                               | ↑    | Longitudinal separation<br>between aircraft 10 mins. |
| <b>W39</b><br>▲ NOBER<br>151635.6N 1004006.0E<br>▲ PHETCHABUN DVOR/DME (PCB)<br>164033.66N 1011148.12E<br>▲ LOEI VOR/DME (LOY)<br>172649.38N 1014323.12E                                                   | 020<br>200<br>89 NM<br>033<br>213<br>55 NM                         | FL 460<br>ALT 6,500FT<br>ALT 7,000FT                                                                       | *                       | ↓                               | ↑    | Longitudinal separation<br>between aircraft 10 mins. |
| <b>W40</b><br>▲ PHRAE DVOR/DME (PAE)<br>180802.78N 1000958.35E<br>▲ PHETCHABUN DVOR/DME (PCB)<br>164033.66N 1011148.12E                                                                                    | 146<br>326<br>105 NM                                               | FL460<br>ALT 6,500FT<br>ALT 7,000FT                                                                        | 10                      | ↓                               | ↑    | Longitudinal separation<br>between aircraft 10 mins. |
| *For the width of Airways see ENR 2.1-1                                                                                                                                                                    |                                                                    |                                                                                                            |                         |                                 |      |                                                      |

## ENR 3 ATS ROUTES

## ENR 3.3 AREA NAVIGATION (RNAV) ROUTES

| Route designator Name of significant points Coordinates (WGS-84)                                                             | Track<br>MAG(GEO)<br>VOR RDL<br>DIST<br>(COP)                            | Upper limits<br>Lower limits<br>Minimum flight altitude<br>Airspace classification<br>(Refer to ENR 1.4-1) | Lateral<br>limits<br>NM | Direction of<br>Cruising levels |      | Remarks Controlling units<br>Frequency                                    |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------|------|---------------------------------------------------------------------------|
|                                                                                                                              |                                                                          |                                                                                                            |                         | Odd                             | Even |                                                                           |
| 1                                                                                                                            | 2                                                                        | 3                                                                                                          | 4                       | 5                               |      | 6                                                                         |
| <b>L301</b><br>▲ TANEK<br>140305.8N 985818.9E<br>▲ BANGKOK DVOR/DME (BKK)<br>135336.8N 1003546.3E                            | <u>095</u><br><u>276</u><br>95 NM                                        | <u>FL 460</u><br>ALT 7,500FT<br>ALT 8,000FT                                                                | *                       | ↓                               | ↑    | Longitudinal separation<br>between aircraft 10 mins<br>or 80 nm.          |
| <b>L507</b><br>▲ BANGKOK VOR/DME (BKK)<br>135336.8N 1003546.3E<br>△ OSUKA<br>1442.8N 09943.0E<br>▲ LIMLA<br>1546.0N 09836.0E | <u>314</u><br><u>134</u><br>71 NM<br>▲ <u>314</u><br><u>134</u><br>90 NM | <u>FL 460</u><br>ALT 8,500FT<br>ALT 9,000FT                                                                | *                       | ↓                               | ↑    | Longitudinal separation<br>between aircraft 10 mins                       |
| <b>L515</b><br>▲ IKULA<br>1000.0N 0972114.0E<br>▲ PHUKET DVOR/DME (PUT)<br>080654.83N 0981822.69E                            | <u>154</u><br><u>334</u><br>126 NM                                       | <u>FL 460</u><br>ALT 10,500FT<br>ALT 11,000FT / FL 110                                                     | *                       | ↓                               | ↑    | Longitudinal separation<br>between aircraft 10 mins                       |
| <b>L645</b><br>▲ PHUKET DVOR/DME (PUT)<br>080654.83N 0981822.69E<br>▲ SAPAM<br>080434N 0973300E                              | <u>268</u><br><u>088</u><br>45 NM                                        | <u>FL 460</u><br>FL 275<br>FL 280                                                                          | *                       | ↑                               | ↓    | Longitudinal separation<br>between aircraft 10 mins                       |
| <b>L759</b><br>▲ PHUKET DVOR/DME (PUT)<br>080654.83N 0981822.69E<br>▲ TAVUN<br>1000.0N 09633.2E                              | <u>318</u><br><u>138</u><br>154 NM                                       | <u>FL 460</u><br>ALT 10,500FT<br>ALT 11,000FT / FL 110                                                     | *                       | ↑                               | ↓    | Longitudinal separation<br>between aircraft 10 mins                       |
| <b>M502</b><br>▲ BANGKOK VOR/DME (BKK)<br>135336.8N 1003546.3E<br>▲ AKATO<br>133715.53N 0991019.19E                          | <u>259</u><br><u>079</u><br>85 NM                                        | <u>FL 460</u><br>ALT 10,000FT<br>ALT 11,000FT / FL 110                                                     | *                       | ↑                               | ↓    | Activate<br>Monday-Friday,<br>1500-2300<br>And<br>Saturday-Sunday,<br>H24 |
| *For the width of Airways see ENR 2.1-1                                                                                      |                                                                          |                                                                                                            |                         |                                 |      |                                                                           |

ENR 3.3 AREA NAVIGATION (RNAV) ROUTES

| Route designator Name of significant points Coordinates (WGS-84)                                                                                                                                                                                                                                                                                                                                                                  | Track<br>MAG(GEO)<br>VOR RDL<br>DIST<br>(COP)                                                                                                                                                               | Upper limits<br>Lower limits<br>Minimum flight altitude<br>Airspace classification<br>(Refer to ENR 1.4-1) | Lateral<br>limits<br>NM | Direction of<br>Cruising levels |      | Remarks Controlling units<br>Frequency              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------|------|-----------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                             |                                                                                                            |                         | Odd                             | Even |                                                     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2                                                                                                                                                                                                           | 3                                                                                                          | 4                       | 5                               |      | 6                                                   |
| <b>M626</b><br>▲ EKA VO<br>113736.5N 0993024.7E<br>▲ MENEX<br>110830.7N 0994542.6E<br>▲ UPNEP<br>094213.1N 1002936.4E<br>△ SUPIN<br>083434.55N 1010419.34E<br>▲ SUWAN<br>080319.5N 1012018.0E<br>▲ KADAX<br>061602.0N 1021541.7E<br>▲ KOTA BHARU VOR/DME (VKB)<br>061002.0N 1021848.0E                                                                                                                                            | 153<br>333<br>33 NM<br>153<br>333<br>96 NM<br>153<br>333<br>76 NM<br>153<br>333<br>35 NM<br>153<br>333<br>120 NM<br>153<br>333<br>7 NM                                                                      | FL 460<br>ALT 9,500FT<br><br>ALT 10,000FT                                                                  | *                       | ↓                               | ↑    | Longitudinal separation<br>between aircraft 10 mins |
| <b>M644</b><br>▲ RAYONG DVOR/DME (RYN)<br>124648.3N 1014041.7E<br>▲ ALUMO<br>104553.89N 1055122.86E<br>△ TONIK<br>100131.14N 1015516.15E<br>△ DUGON<br>080124.77N 1020548.57E<br>▲ ABTOK<br>061818.0N 1021744.0E                                                                                                                                                                                                                  | 175<br>355<br>121 NM<br>175<br>355<br>88 NM<br>175<br>355<br>76 NM<br>173<br>353<br>103 NM                                                                                                                  | FL 460<br>FL 285<br><br>FL 290                                                                             | *                       | ↓                               | ↑    | Longitudinal separation<br>between aircraft 10 mins |
| <b>M751</b><br>▲ BANGKOK DVOR/DME (BKK)<br>135336.80N 1003546.30E<br>△ POLAK<br>132106.10N 1003454.30E<br>▲ GUTSO<br>124819.94N 1003454.30E<br>▲ REGOS<br>120006.50N 1003454.30E<br>△ IDAGA<br>110006.80N 1005348.10E<br>▲ EMELA<br>101249.19N 1010729.14E<br>△ MUBAN<br>091848.37N 1012301.53E<br>▲ TIKAL<br>080219.50N 1014447.90E<br>▲ GOLUD<br>061706.00N 1021639.00E<br>▲ KOTA BHARU VOR/DME (VKB)<br>061002.00N 1021848.00E | 182<br>002<br>32 NM<br>181<br>001<br>33 NM<br>181<br>001<br>48 NM<br>163<br>343<br>63 NM<br>164<br>344<br>49 NM<br>164<br>344<br>80 NM<br>164<br>344<br>54 NM<br>164<br>344<br>109 NM<br>164<br>344<br>7 NM | FL 460<br>ALT 6,500FT<br><br>ALT 7,000FT                                                                   | *                       | ↓                               | ↑    | Longitudinal separation<br>between aircraft 10 mins |

\*For the width of Airways see ENR 2.1-1

**AD 2. AERODROMES****PHUKET / INTL**

|      |         |                                                           |         |
|------|---------|-----------------------------------------------------------|---------|
| VTSP | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1  |
| VTSP | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1  |
| VTSP | AD 2.3  | Operational hours                                         | AD 2-1  |
| VTSP | AD 2.4  | Handling services and facilities                          | AD 2-2  |
| VTSP | AD 2.5  | Passenger facilities                                      | AD 2-2  |
| VTSP | AD 2.6  | Rescue and fire fighting services                         | AD 2-2  |
| VTSP | AD 2.7  | Seasonal availability – clearing                          | AD 2-2  |
| VTSP | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-3  |
| VTSP | AD 2.9  | Surface movement guidance and control system and markings | AD 2-3  |
|      |         | RLG docking system                                        | AD 2-4  |
|      |         | Safegate docking system                                   | AD 2-6  |
| VTSP | AD 2.10 | Aerodrome obstacles                                       | AD 2-12 |
| VTSP | AD 2.11 | Meteorological informational provided                     | AD 2-12 |
| VTSP | AD 2.12 | Runway Physical characteristics                           | AD 2-13 |
| VTSP | AD 2.13 | Declared distances                                        | AD 2-13 |
| VTSP | AD 2.14 | Approach and runway lighting                              | AD 2-14 |
| VTSP | AD 2.15 | Other lighting, secondary power supply                    | AD 2-14 |
| VTSP | AD 2.16 | Helicopter landing area                                   | AD 2-15 |
| VTSP | AD 2.17 | ATS airspace                                              | AD 2-15 |
| VTSP | AD 2.18 | ATS communication facilities                              | AD 2-16 |
| VTSP | AD 2.19 | Radio navigation and landing aids                         | AD 2-17 |
| VTSP | AD 2.20 | Local aerodrome regulations                               | AD 2-19 |
| VTSP | AD 2.21 | Noise abatement procedures                                | AD 2-20 |
| VTSP | AD 2.22 | Flight procedures                                         | AD 2-20 |
| VTSP | AD 2.23 | Additional information                                    | AD 2-20 |
| VTSP | AD 2.24 | Charts related to an aerodrome                            | AD 2-21 |

**BANGKOK / Suvarnabhumi INTL**

|      |         |                                                           |         |
|------|---------|-----------------------------------------------------------|---------|
| VTBS | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1  |
| VTBS | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1  |
| VTBS | AD 2.3  | Operational hours                                         | AD 2-1  |
| VTBS | AD 2.4  | Handling services and facilities                          | AD 2-2  |
| VTBS | AD 2.5  | Passenger facilities                                      | AD 2-3  |
| VTBS | AD 2.6  | Rescue and fire fighting services                         | AD 2-3  |
| VTBS | AD 2.7  | Seasonal availability – clearing                          | AD 2-3  |
| VTBS | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-4  |
| VTBS | AD 2.9  | Surface movement guidance and control system and markings | AD 2-13 |
| VTBS | AD 2.10 | Aerodrome obstacles                                       | AD 2-14 |
| VTBS | AD 2.11 | Meteorological informational provided                     | AD 2-15 |
| VTBS | AD 2.12 | Runway Physical characteristics                           | AD 2-16 |
| VTBS | AD 2.13 | Declared distances                                        | AD 2-17 |
| VTBS | AD 2.14 | Approach and runway lighting                              | AD 2-18 |
| VTBS | AD 2.15 | Other lighting, secondary power supply                    | AD 2-19 |
| VTBS | AD 2.16 | Helicopter landing area                                   | AD 2-19 |
| VTBS | AD 2.17 | ATS airspace                                              | AD 2-20 |
| VTBS | AD 2.18 | ATS communication facilities                              | AD 2-20 |
| VTBS | AD 2.19 | Radio navigation and landing aids                         | AD 2-21 |
| VTBS | AD 2.20 | Local aerodrome regulations                               | AD 2-23 |
| VTBS | AD 2.21 | Noise abatement procedures                                | AD 2-88 |
| VTBS | AD 2.22 | Flight procedures                                         | AD 2-89 |
| VTBS | AD 2.23 | Additional information                                    | AD 2-92 |
| VTBS | AD 2.24 | Charts related to an aerodrome                            | AD 2-93 |

## AD 2. AERODROMES

### RAYONG / U-Tapao Rayong Pattaya INTL

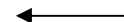
|      |         |                                                           |         |
|------|---------|-----------------------------------------------------------|---------|
| VTBU | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1  |
| VTBU | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1  |
| VTBU | AD 2.3  | Operational hours                                         | AD 2-1  |
| VTBU | AD 2.4  | Handling services and facilities                          | AD 2-2  |
| VTBU | AD 2.5  | Passenger facilities                                      | AD 2-2  |
| VTBU | AD 2.6  | Rescue and fire fighting services                         | AD 2-2  |
| VTBU | AD 2.7  | Seasonal availability – clearing                          | AD 2-2  |
| VTBU | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-3  |
| VTBU | AD 2.9  | Surface movement guidance and control system and markings | AD 2-3  |
| VTBU | AD 2.10 | Aerodrome obstacles                                       | AD 2-3  |
| VTBU | AD 2.11 | Meteorological informational provided                     | AD 2-4  |
| VTBU | AD 2.12 | Runway Physical characteristics                           | AD 2-4  |
| VTBU | AD 2.13 | Declared distances                                        | AD 2-5  |
| VTBU | AD 2.14 | Approach and runway lighting                              | AD 2-5  |
| VTBU | AD 2.15 | Other lighting, secondary power supply                    | AD 2-5  |
| VTBU | AD 2.16 | Helicopter landing area                                   | AD 2-6  |
| VTBU | AD 2.17 | ATS airspace                                              | AD 2-6  |
| VTBU | AD 2.18 | ATS communication facilities                              | AD 2-6  |
| VTBU | AD 2.19 | Radio navigation and landing aids                         | AD 2-7  |
| VTBU | AD 2.20 | Local aerodrome regulations                               | AD 2-9  |
| VTBU | AD 2.21 | Noise abatement procedures                                | AD 2-12 |
| VTBU | AD 2.22 | Flight procedures                                         | AD 2-13 |
| VTBU | AD 2.23 | Additional information                                    | AD 2-14 |
| VTBU | AD 2.24 | Charts related to an aerodrome                            | AD 2-15 |

### → SONGKHLA / Hat Yai INTL

|      |         |                                                           |         |
|------|---------|-----------------------------------------------------------|---------|
| VTSS | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1  |
| VTSS | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1  |
| VTSS | AD 2.3  | Operational hours                                         | AD 2-1  |
| VTSS | AD 2.4  | Handling services and facilities                          | AD 2-2  |
| VTSS | AD 2.5  | Passenger facilities                                      | AD 2-2  |
| VTSS | AD 2.6  | Rescue and fire fighting services                         | AD 2-2  |
| VTSS | AD 2.7  | Seasonal availability – clearing                          | AD 2-2  |
| VTSS | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-3  |
| VTSS | AD 2.9  | Surface movement guidance and control system and markings | AD 2-3  |
|      |         | Safegate docking system                                   | AD 2-4  |
| VTSS | AD 2.10 | Aerodrome obstacles                                       | AD 2-10 |
| VTSS | AD 2.11 | Meteorological informational provided                     | AD 2-10 |
| VTSS | AD 2.12 | Runway Physical characteristics                           | AD 2-11 |
| VTSS | AD 2.13 | Declared distances                                        | AD 2-11 |
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| VTSS | AD 2.15 | Other lighting, secondary power supply                    | AD 2-12 |
| VTSS | AD 2.16 | Helicopter landing area                                   | AD 2-12 |
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## AD 2. AERODROMES

## NAKHON PATHOM / Kamphaeng saen



|      |         |                                                           |        |
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| VTBK | AD 2.4  | Handling services and facilities                          | AD 2-1 |
| VTBK | AD 2.5  | Passenger facilities                                      | AD 2-2 |
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| VTBK | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-2 |
| VTBK | AD 2.9  | Surface movement guidance and control system and markings | AD 2-3 |
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| VTBK | AD 2.11 | Meteorological informational provided                     | AD 2-3 |
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| VTBK | AD 2.13 | Declared distances                                        | AD 2-4 |
| VTBK | AD 2.14 | Approach and runway lighting                              | AD 2-4 |
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| VTBK | AD 2.18 | ATS communication facilities                              | AD 2-6 |
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| VTBK | AD 2.23 | Additional information                                    | AD 2-7 |
| VTBK | AD 2.24 | Charts related to an aerodrome                            | AD 2-7 |

## NAKHON PHANOM

|      |         |                                                           |        |
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| VTUW | AD 2.4  | Handling services and facilities                          | AD 2-1 |
| VTUW | AD 2.5  | Passenger facilities                                      | AD 2-2 |
| VTUW | AD 2.6  | Rescue and fire fighting services                         | AD 2-2 |
| VTUW | AD 2.7  | Seasonal availability – clearing                          | AD 2-2 |
| VTUW | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-2 |
| VTUW | AD 2.9  | Surface movement guidance and control system and markings | AD 2-2 |
| VTUW | AD 2.10 | Aerodrome obstacles                                       | AD 2-3 |
| VTUW | AD 2.11 | Meteorological informational provided                     | AD 2-3 |
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| VTUW | AD 2.13 | Declared distances                                        | AD 2-4 |
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| VTUW | AD 2.15 | Other lighting, secondary power supply                    | AD 2-5 |
| VTUW | AD 2.16 | Helicopter landing area                                   | AD 2-5 |
| VTUW | AD 2.17 | ATS airspace                                              | AD 2-5 |
| VTUW | AD 2.18 | ATS communication facilities                              | AD 2-5 |
| VTUW | AD 2.19 | Radio navigation and landing aids                         | AD 2-6 |
| VTUW | AD 2.20 | Local aerodrome regulations                               | AD 2-7 |
| VTUW | AD 2.21 | Noise abatement procedures                                | AD 2-8 |
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| VTUW | AD 2.23 | Additional information                                    | AD 2-8 |
| VTUW | AD 2.24 | Charts related to an aerodrome                            | AD 2-9 |

## NAKHON RATCHASIMA

|      |        |                                                |        |
|------|--------|------------------------------------------------|--------|
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| VTUQ | AD 2.5 | Passenger facilities                           | AD 2-2 |
| VTUQ | AD 2.6 | Rescue and fire fighting services              | AD 2-2 |

## AD 2. AERODROMES

### NAKHON RATCHASIMA

|      |         |                                                           |         |
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| VTUQ | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-3  |
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| VTUQ | AD 2.10 | Aerodrome obstacles                                       | AD 2-3  |
| VTUQ | AD 2.11 | Meteorological informational provided                     | AD 2-4  |
| VTUQ | AD 2.12 | Runway Physical characteristics                           | AD 2-4  |
| VTUQ | AD 2.13 | Declared distances                                        | AD 2-5  |
| VTUQ | AD 2.14 | Approach and runway lighting                              | AD 2-5  |
| VTUQ | AD 2.15 | Other lighting, secondary power supply                    | AD 2-5  |
| VTUQ | AD 2.16 | Helicopter landing area                                   | AD 2-6  |
| VTUQ | AD 2.17 | ATS airspace                                              | AD 2-6  |
| VTUQ | AD 2.18 | ATS communication facilities                              | AD 2-6  |
| VTUQ | AD 2.19 | Radio navigation and landing aids                         | AD 2-7  |
| VTUQ | AD 2.20 | Local aerodrome regulations                               | AD 2-8  |
| VTUQ | AD 2.21 | Noise abatement procedures                                | AD 2-9  |
| VTUQ | AD 2.22 | Flight procedures                                         | AD 2-9  |
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### NAKHON RATCHASIMA / Khorat

|      |         |                                                           |        |
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| VTUN | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1 |
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| VTUN | AD 2.3  | Operational hours                                         | AD 2-1 |
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| VTUN | AD 2.5  | Passenger facilities                                      | AD 2-2 |
| VTUN | AD 2.6  | Rescue and fire fighting services                         | AD 2-2 |
| VTUN | AD 2.7  | Seasonal availability – clearing                          | AD 2-2 |
| VTUN | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-2 |
| VTUN | AD 2.9  | Surface movement guidance and control system and markings | AD 2-3 |
| VTUN | AD 2.10 | Aerodrome obstacles                                       | AD 2-3 |
| VTUN | AD 2.11 | Meteorological informational provided                     | AD 2-3 |
| VTUN | AD 2.12 | Runway Physical characteristics                           | AD 2-4 |
| VTUN | AD 2.13 | Declared distances                                        | AD 2-4 |
| VTUN | AD 2.14 | Approach and runway lighting                              | AD 2-4 |
| VTUN | AD 2.15 | Other lighting, secondary power supply                    | AD 2-5 |
| VTUN | AD 2.16 | Helicopter landing area                                   | AD 2-5 |
| VTUN | AD 2.17 | ATS airspace                                              | AD 2-5 |
| VTUN | AD 2.18 | ATS communication facilities                              | AD 2-6 |
| VTUN | AD 2.19 | Radio navigation and landing aids                         | AD 2-6 |
| VTUN | AD 2.20 | Local aerodrome regulations                               | AD 2-7 |
| VTUN | AD 2.21 | Noise abatement procedures                                | AD 2-7 |
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### NAKHON SAWAN

|      |         |                                                           |        |
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| VTPN | AD 2.9  | Surface movement guidance and control system and markings | AD 2-2 |
| VTPN | AD 2.10 | Aerodrome obstacles                                       | AD 2-3 |
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| VTPN | AD 2.12 | Runway Physical characteristics                           | AD 2-3 |
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**AD 2. AERODROMES****NAKHON SAWAN**

|      |         |                                        |        |
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| VTPN | AD 2.16 | Helicopter landing area                | AD 2-4 |
| VTPN | AD 2.17 | ATS airspace                           | AD 2-5 |
| VTPN | AD 2.18 | ATS communication facilities           | AD 2-5 |
| VTPN | AD 2.19 | Radio navigation and landing aids      | AD 2-5 |
| VTPN | AD 2.20 | Local aerodrome regulations            | AD 2-6 |
| VTPN | AD 2.21 | Noise abatement procedures             | AD 2-6 |
| VTPN | AD 2.22 | Flight procedures                      | AD 2-6 |
| VTPN | AD 2.23 | Additional information                 | AD 2-6 |
| VTPN | AD 2.24 | Charts related to an aerodrome         | AD 2-7 |

**NAKHON SAWAN / Takhli**

|      |         |                                                           |        |
|------|---------|-----------------------------------------------------------|--------|
| VTPI | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1 |
| VTPI | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1 |
| VTPI | AD 2.3  | Operational hours                                         | AD 2-1 |
| VTPI | AD 2.4  | Handling services and facilities                          | AD 2-1 |
| VTPI | AD 2.5  | Passenger facilities                                      | AD 2-2 |
| VTPI | AD 2.6  | Rescue and fire fighting services                         | AD 2-2 |
| VTPI | AD 2.7  | Seasonal availability – clearing                          | AD 2-2 |
| VTPI | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-2 |
| VTPI | AD 2.9  | Surface movement guidance and control system and markings | AD 2-2 |
| VTPI | AD 2.10 | Aerodrome obstacles                                       | AD 2-3 |
| VTPI | AD 2.11 | Meteorological informational provided                     | AD 2-3 |
| VTPI | AD 2.12 | Runway Physical characteristics                           | AD 2-3 |
| VTPI | AD 2.13 | Declared distances                                        | AD 2-4 |
| VTPI | AD 2.14 | Approach and runway lighting                              | AD 2-4 |
| VTPI | AD 2.15 | Other lighting, secondary power supply                    | AD 2-4 |
| VTPI | AD 2.16 | Helicopter landing area                                   | AD 2-4 |
| VTPI | AD 2.17 | ATS airspace                                              | AD 2-5 |
| VTPI | AD 2.18 | ATS communication facilities                              | AD 2-5 |
| VTPI | AD 2.19 | Radio navigation and landing aids                         | AD 2-6 |
| VTPI | AD 2.20 | Local aerodrome regulations                               | AD 2-6 |
| VTPI | AD 2.21 | Noise abatement procedures                                | AD 2-6 |
| VTPI | AD 2.22 | Flight procedures                                         | AD 2-7 |
| VTPI | AD 2.23 | Additional information                                    | AD 2-7 |
| VTPI | AD 2.23 | Charts related to an aerodrome                            | AD 2-7 |

**NAKHON SI THAMMARAT**

|      |         |                                                           |        |
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| VTSF | AD 2.3  | Operational hours                                         | AD 2-1 |
| VTSF | AD 2.4  | Handling services and facilities                          | AD 2-2 |
| VTSF | AD 2.5  | Passenger facilities                                      | AD 2-2 |
| VTSF | AD 2.6  | Rescue and fire fighting services                         | AD 2-2 |
| VTSF | AD 2.7  | Seasonal availability – clearing                          | AD 2-2 |
| VTSF | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-3 |
| VTSF | AD 2.9  | Surface movement guidance and control system and markings | AD 2-3 |
| VTSF | AD 2.10 | Aerodrome obstacles                                       | AD 2-3 |
| VTSF | AD 2.11 | Meteorological informational provided                     | AD 2-4 |
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| VTSF | AD 2.13 | Declared distances                                        | AD 2-5 |
| VTSF | AD 2.14 | Approach and runway lighting                              | AD 2-5 |
| VTSF | AD 2.15 | Other lighting, secondary power supply                    | AD 2-5 |
| VTSF | AD 2.16 | Helicopter landing area                                   | AD 2-6 |
| VTSF | AD 2.17 | ATS airspace                                              | AD 2-6 |
| VTSF | AD 2.18 | ATS communication facilities                              | AD 2-6 |
| VTSF | AD 2.19 | Radio navigation and landing aids                         | AD 2-7 |

## AD 2. AERODROMES

### NAKHON SI THAMMARAT

|      |         |                                |        |
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| VTSF | AD 2.22 | Flight procedures              | AD 2-8 |
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### → NAKHON SI THAMMARAT / Cha-lan

|      |         |                                                           |        |
|------|---------|-----------------------------------------------------------|--------|
| VTSN | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1 |
| VTSN | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1 |
| VTSN | AD 2.3  | Operational hours                                         | AD 2-1 |
| VTSN | AD 2.4  | Handling services and facilities                          | AD 2-1 |
| VTSN | AD 2.5  | Passenger facilities                                      | AD 2-2 |
| VTSN | AD 2.6  | Rescue and fire fighting services                         | AD 2-2 |
| VTSN | AD 2.7  | Seasonal availability – clearing                          | AD 2-2 |
| VTSN | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-2 |
| VTSN | AD 2.9  | Surface movement guidance and control system and markings | AD 2-2 |
| VTSN | AD 2.10 | Aerodrome obstacles                                       | AD 2-3 |
| VTSN | AD 2.11 | Meteorological information provided                       | AD 2-3 |
| VTSN | AD 2.12 | Runway Physical characteristics                           | AD 2-3 |
| VTSN | AD 2.13 | Declared distances                                        | AD 2-4 |
| VTSN | AD 2.14 | Approach and runway lighting                              | AD 2-4 |
| VTSN | AD 2.15 | Other lighting, secondary power supply                    | AD 2-4 |
| VTSN | AD 2.16 | Helicopter landing area                                   | AD 2-4 |
| VTSN | AD 2.17 | ATS airspace                                              | AD 2-5 |
| VTSN | AD 2.18 | ATS communication facilities                              | AD 2-5 |
| VTSN | AD 2.19 | Radio navigation and landing aids                         | AD 2-5 |
| VTSN | AD 2.20 | Local aerodrome regulations                               | AD 2-6 |
| VTSN | AD 2.21 | Noise abatement procedures                                | AD 2-6 |
| VTSN | AD 2.22 | Flight procedures                                         | AD 2-6 |
| VTSN | AD 2.23 | Additional information                                    | AD 2-7 |
| VTSN | AD 2.24 | Charts related to an aerodrome                            | AD 2-7 |

### NAN / Nan Nakhon

|      |         |                                                           |        |
|------|---------|-----------------------------------------------------------|--------|
| VTCN | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1 |
| VTCN | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1 |
| VTCN | AD 2.3  | Operational hours                                         | AD 2-1 |
| VTCN | AD 2.4  | Handling services and facilities                          | AD 2-1 |
| VTCN | AD 2.5  | Passenger facilities                                      | AD 2-2 |
| VTCN | AD 2.6  | Rescue and fire fighting services                         | AD 2-2 |
| VTCN | AD 2.7  | Seasonal availability – clearing                          | AD 2-2 |
| VTCN | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-2 |
| VTCN | AD 2.9  | Surface movement guidance and control system and markings | AD 2-2 |
| VTCN | AD 2.10 | Aerodrome obstacles                                       | AD 2-3 |
| VTCN | AD 2.11 | Meteorological informational provided                     | AD 2-3 |
| VTCN | AD 2.12 | Runway Physical characteristics                           | AD 2-4 |
| VTCN | AD 2.13 | Declared distances                                        | AD 2-4 |
| VTCN | AD 2.14 | Approach and runway lighting                              | AD 2-4 |
| VTCN | AD 2.15 | Other lighting, secondary power supply                    | AD 2-5 |
| VTCN | AD 2.16 | Helicopter landing area                                   | AD 2-5 |
| VTCN | AD 2.17 | ATS airspace                                              | AD 2-5 |
| VTCN | AD 2.18 | ATS communication facilities                              | AD 2-5 |
| VTCN | AD 2.19 | Radio navigation and landing aids                         | AD 2-6 |
| VTCN | AD 2.20 | Local aerodrome regulations                               | AD 2-7 |
| VTCN | AD 2.21 | Noise abatement procedures                                | AD 2-7 |
| VTCN | AD 2.22 | Flight procedures                                         | AD 2-7 |
| VTCN | AD 2.23 | Additional information                                    | AD 2-7 |
| VTCN | AD 2.24 | Charts related to an aerodrome                            | AD 2-9 |

**AD 2. AERODROMES****NARATHIWAT**

|      |         |                                                           |        |
|------|---------|-----------------------------------------------------------|--------|
| VTSC | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1 |
| VTSC | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1 |
| VTSC | AD 2.3  | Operational hours                                         | AD 2-1 |
| VTSC | AD 2.4  | Handling services and facilities                          | AD 2-1 |
| VTSC | AD 2.5  | Passenger facilities                                      | AD 2-2 |
| VTSC | AD 2.6  | Rescue and fire fighting services                         | AD 2-2 |
| VTSC | AD 2.7  | Seasonal availability – clearing                          | AD 2-2 |
| VTSC | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-2 |
| VTSC | AD 2.9  | Surface movement guidance and control system and markings | AD 2-2 |
| VTSC | AD 2.10 | Aerodrome obstacles                                       | AD 2-3 |
| VTSC | AD 2.11 | Meteorological informational provided                     | AD 2-3 |
| VTSC | AD 2.12 | Runway Physical characteristics                           | AD 2-3 |
| VTSC | AD 2.13 | Declared distances                                        | AD 2-4 |
| VTSC | AD 2.14 | Approach and runway lighting                              | AD 2-4 |
| VTSC | AD 2.15 | Other lighting, secondary power supply                    | AD 2-4 |
| VTSC | AD 2.16 | Helicopter landing area                                   | AD 2-4 |
| VTSC | AD 2.17 | ATS airspace                                              | AD 2-5 |
| VTSC | AD 2.18 | ATS communication facilities                              | AD 2-5 |
| VTSC | AD 2.19 | Radio navigation and landing aids                         | AD 2-6 |
| VTSC | AD 2.20 | Local aerodrome regulations                               | AD 2-7 |
| VTSC | AD 2.21 | Noise abatement procedures                                | AD 2-7 |
| VTSC | AD 2.22 | Flight procedures                                         | AD 2-7 |
| VTSC | AD 2.23 | Additional information                                    | AD 2-7 |
| VTSC | AD 2.24 | Charts related to an aerodrome                            | AD 2-9 |

**PATTANI**

|      |         |                                                           |        |
|------|---------|-----------------------------------------------------------|--------|
| VTSK | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1 |
| VTSK | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1 |
| VTSK | AD 2.3  | Operational hours                                         | AD 2-1 |
| VTSK | AD 2.4  | Handling services and facilities                          | AD 2-1 |
| VTSK | AD 2.5  | Passenger facilities                                      | AD 2-1 |
| VTSK | AD 2.6  | Rescue and fire fighting services                         | AD 2-2 |
| VTSK | AD 2.7  | Seasonal availability – clearing                          | AD 2-2 |
| VTSK | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-2 |
| VTSK | AD 2.9  | Surface movement guidance and control system and markings | AD 2-2 |
| VTSK | AD 2.10 | Aerodrome obstacles                                       | AD 2-2 |
| VTSK | AD 2.11 | Meteorological informational provided                     | AD 2-3 |
| VTSK | AD 2.12 | Runway Physical characteristics                           | AD 2-3 |
| VTSK | AD 2.13 | Declared distances                                        | AD 2-3 |
| VTSK | AD 2.14 | Approach and runway lighting                              | AD 2-4 |
| VTSK | AD 2.15 | Other lighting, secondary power supply                    | AD 2-4 |
| VTSK | AD 2.16 | Helicopter landing area                                   | AD 2-4 |
| VTSK | AD 2.17 | ATS airspace                                              | AD 2-4 |
| VTSK | AD 2.18 | ATS communication facilities                              | AD 2-5 |
| VTSK | AD 2.19 | Radio navigation and landing aids                         | AD 2-5 |
| VTSK | AD 2.20 | Local aerodrome regulations                               | AD 2-6 |
| VTSK | AD 2.21 | Noise abatement procedures                                | AD 2-6 |
| VTSK | AD 2.22 | Flight procedures                                         | AD 2-6 |
| VTSK | AD 2.23 | Additional information                                    | AD 2-6 |
| VTSK | AD 2.24 | Charts related to an aerodrome                            | AD 2-7 |

**PHETCHABUN**

|      |        |                                                |        |
|------|--------|------------------------------------------------|--------|
| VTPB | AD 2.1 | Aerodrome location indicator and name          | AD 2-1 |
| VTPB | AD 2.2 | Aerodrome geographical and administrative data | AD 2-1 |
| VTPB | AD 2.3 | Operational hours                              | AD 2-1 |
| VTPB | AD 2.4 | Handling services and facilities               | AD 2-2 |
| VTPB | AD 2.5 | Passenger facilities                           | AD 2-2 |
| VTPB | AD 2.6 | Rescue and fire fighting services              | AD 2-2 |

## AD 2. AERODROMES

### PHETCHABUN

|      |         |                                                           |        |
|------|---------|-----------------------------------------------------------|--------|
| VTPB | AD 2.7  | Seasonal availability – clearing                          | AD 2-2 |
| VTPB | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-3 |
| VTPB | AD 2.9  | Surface movement guidance and control system and markings | AD 2-3 |
| VTPB | AD 2.10 | Aerodrome obstacles                                       | AD 2-3 |
| VTPB | AD 2.11 | Meteorological informational provided                     | AD 2-4 |
| VTPB | AD 2.12 | Runway Physical characteristics                           | AD 2-4 |
| VTPB | AD 2.13 | Declared distances                                        | AD 2-5 |
| VTPB | AD 2.14 | Approach and runway lighting                              | AD 2-5 |
| VTPB | AD 2.15 | Other lighting, secondary power supply                    | AD 2-5 |
| VTPB | AD 2.16 | Helicopter landing area                                   | AD 2-6 |
| VTPB | AD 2.17 | ATS airspace                                              | AD 2-6 |
| VTPB | AD 2.18 | ATS communication facilities                              | AD 2-6 |
| VTPB | AD 2.19 | Radio navigation and landing aids                         | AD 2-7 |
| VTPB | AD 2.20 | Local aerodrome regulations                               | AD 2-8 |
| VTPB | AD 2.21 | Noise abatement procedures                                | AD 2-8 |
| VTPB | AD 2.22 | Flight procedures                                         | AD 2-8 |
| VTPB | AD 2.23 | Additional information                                    | AD 2-8 |
| VTPB | AD 2.24 | Charts related to an aerodrome                            | AD 2-9 |

### → PHITSANULOK

|      |         |                                                           |         |
|------|---------|-----------------------------------------------------------|---------|
| VTTP | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1  |
| VTTP | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1  |
| VTTP | AD 2.3  | Operational hours                                         | AD 2-1  |
| VTTP | AD 2.4  | Handling services and facilities                          | AD 2-1  |
| VTTP | AD 2.5  | Passenger facilities                                      | AD 2-2  |
| VTTP | AD 2.6  | Rescue and fire fighting services                         | AD 2-2  |
| VTTP | AD 2.7  | Seasonal availability – clearing                          | AD 2-2  |
| VTTP | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-2  |
| VTTP | AD 2.9  | Surface movement guidance and control system and markings | AD 2-2  |
| VTTP | AD 2.10 | Aerodrome obstacles                                       | AD 2-3  |
| VTTP | AD 2.11 | Meteorological informational provided                     | AD 2-3  |
| VTTP | AD 2.12 | Runway Physical characteristics                           | AD 2-4  |
| VTTP | AD 2.13 | Declared distances                                        | AD 2-4  |
| VTTP | AD 2.14 | Approach and runway lighting                              | AD 2-4  |
| VTTP | AD 2.15 | Other lighting, secondary power supply                    | AD 2-5  |
| VTTP | AD 2.16 | Helicopter landing area                                   | AD 2-   |
| VTTP | AD 2.17 | ATS airspace                                              | AD 2-5  |
| VTTP | AD 2.18 | ATS communication facilities                              | AD 2-5  |
| VTTP | AD 2.19 | Radio navigation and landing aids                         | AD 2-6  |
| VTTP | AD 2.20 | Local aerodrome regulations                               | AD 2-7  |
| VTTP | AD 2.21 | Noise abatement procedures                                | AD 2-8  |
| VTTP | AD 2.22 | Flight procedures                                         | AD 2-9  |
| VTTP | AD 2.23 | Additional information                                    | AD 2-12 |
| VTTP | AD 2.24 | Charts related to an aerodrome                            | AD 2-13 |

### PHRAE

|      |         |                                                           |        |
|------|---------|-----------------------------------------------------------|--------|
| VTCP | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1 |
| VTCP | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1 |
| VTCP | AD 2.3  | Operational hours                                         | AD 2-1 |
| VTCP | AD 2.4  | Handling services and facilities                          | AD 2-1 |
| VTCP | AD 2.5  | Passenger facilities                                      | AD 2-2 |
| VTCP | AD 2.6  | Rescue and fire fighting services                         | AD 2-2 |
| VTCP | AD 2.7  | Seasonal availability – clearing                          | AD 2-2 |
| VTCP | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-2 |
| VTCP | AD 2.9  | Surface movement guidance and control system and markings | AD 2-2 |
| VTCP | AD 2.10 | Aerodrome obstacles                                       | AD 2-2 |
| VTCP | AD 2.11 | Meteorological informational provided                     | AD 2-3 |
| VTCP | AD 2.12 | Runway Physical characteristics                           | AD 2-3 |

**AD 2. AERODROMES****PHRAE**

|      |         |                                        |        |
|------|---------|----------------------------------------|--------|
| VTCP | AD 2.13 | Declared distances                     | AD 2-4 |
| VTCP | AD 2.14 | Approach and runway lighting           | AD 2-4 |
| VTCP | AD 2.15 | Other lighting, secondary power supply | AD 2-4 |
| VTCP | AD 2.16 | Helicopter landing area                | AD 2-5 |
| VTCP | AD 2.17 | ATS airspace                           | AD 2-5 |
| VTCP | AD 2.18 | ATS communication facilities           | AD 2-5 |
| VTCP | AD 2.19 | Radio navigation and landing aids      | AD 2-6 |
| VTCP | AD 2.20 | Local aerodrome regulations            | AD 2-7 |
| VTCP | AD 2.21 | Noise abatement procedures             | AD 2-7 |
| VTCP | AD 2.22 | Flight procedures                      | AD 2-7 |
| VTCP | AD 2.23 | Additional information                 | AD 2-7 |
| VTCP | AD 2.24 | Charts related to an aerodrome         | AD 2-9 |

**PRACHUAP KHIRI KHAN / Prachuap**

|      |         |                                                           |        |
|------|---------|-----------------------------------------------------------|--------|
| VTBP | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1 |
| VTBP | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1 |
| VTBP | AD 2.3  | Operational hours                                         | AD 2-1 |
| VTBP | AD 2.4  | Handling services and facilities                          | AD 2-1 |
| VTBP | AD 2.5  | Passenger facilities                                      | AD 2-2 |
| VTBP | AD 2.6  | Rescue and fire fighting services                         | AD 2-2 |
| VTBP | AD 2.7  | Seasonal availability – clearing                          | AD 2-2 |
| VTBP | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-2 |
| VTBP | AD 2.9  | Surface movement guidance and control system and markings | AD 2-3 |
| VTBP | AD 2.10 | Aerodrome obstacles                                       | AD 2-3 |
| VTBP | AD 2.11 | Meteorological informational provided                     | AD 2-4 |
| VTBP | AD 2.12 | Runway Physical characteristics                           | AD 2-4 |
| VTBP | AD 2.13 | Declared distances                                        | AD 2-5 |
| VTBP | AD 2.14 | Approach and runway lighting                              | AD 2-5 |
| VTBP | AD 2.15 | Other lighting, secondary power supply                    | AD 2-5 |
| VTBP | AD 2.16 | Helicopter landing area                                   | AD 2-6 |
| VTBP | AD 2.17 | ATS airspace                                              | AD 2-6 |
| VTBP | AD 2.18 | ATS communication facilities                              | AD 2-6 |
| VTBP | AD 2.19 | Radio navigation and landing aids                         | AD 2-7 |
| VTBP | AD 2.20 | Local aerodrome regulations                               | AD 2-8 |
| VTBP | AD 2.21 | Noise abatement procedures                                | AD 2-8 |
| VTBP | AD 2.22 | Flight procedures                                         | AD 2-8 |
| VTBP | AD 2.23 | Additional information                                    | AD 2-8 |
| VTBP | AD 2.24 | Charts related to an aerodrome                            | AD 2-9 |

**PRACHUAP KHIRI KHAN / Hua Hin**

|      |         |                                                           |        |
|------|---------|-----------------------------------------------------------|--------|
| VTPH | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1 |
| VTPH | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1 |
| VTPH | AD 2.3  | Operational hours                                         | AD 2-1 |
| VTPH | AD 2.4  | Handling services and facilities                          | AD 2-1 |
| VTPH | AD 2.5  | Passenger facilities                                      | AD 2-2 |
| VTPH | AD 2.6  | Rescue and fire fighting services                         | AD 2-2 |
| VTPH | AD 2.7  | Seasonal availability – clearing                          | AD 2-2 |
| VTPH | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-2 |
| VTPH | AD 2.9  | Surface movement guidance and control system and markings | AD 2-2 |
| VTPH | AD 2.10 | Aerodrome obstacles                                       | AD 2-3 |
| VTPH | AD 2.11 | Meteorological informational provided                     | AD 2-3 |
| VTPH | AD 2.12 | Runway Physical characteristics                           | AD 2-4 |
| VTPH | AD 2.13 | Declared distances                                        | AD 2-4 |
| VTPH | AD 2.14 | Approach and runway lighting                              | AD 2-4 |
| VTPH | AD 2.15 | Other lighting, secondary power supply                    | AD 2-5 |
| VTPH | AD 2.16 | Helicopter landing area                                   | AD 2-5 |
| VTPH | AD 2.17 | ATS airspace                                              | AD 2-5 |
| VTPH | AD 2.18 | ATS communication facilities                              | AD 2-5 |

## AD 2. AERODROMES

## PRACHUAP KHIRI KHAN / Hua Hin

|      |         |                                   |         |
|------|---------|-----------------------------------|---------|
| VTPH | AD 2.19 | Radio navigation and landing aids | AD 2-6  |
| VTPH | AD 2.20 | Local aerodrome regulations       | AD 2-7  |
| VTPH | AD 2.21 | Noise abatement procedures        | AD 2-7  |
| VTPH | AD 2.22 | Flight procedures                 | AD 2-8  |
| VTPH | AD 2.23 | Additional information            | AD 2-10 |
| VTPH | AD 2.24 | Charts related to an aerodrome    | AD 2-11 |

## RANONG

|      |         |                                                           |        |
|------|---------|-----------------------------------------------------------|--------|
| VTSR | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1 |
| VTSR | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1 |
| VTSR | AD 2.3  | Operational hours                                         | AD 2-1 |
| VTSR | AD 2.4  | Handling services and facilities                          | AD 2-2 |
| VTSR | AD 2.5  | Passenger facilities                                      | AD 2-2 |
| VTSR | AD 2.6  | Rescue and fire fighting services                         | AD 2-2 |
| VTSR | AD 2.7  | Seasonal availability – clearing                          | AD 2-2 |
| VTSR | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-3 |
| VTSR | AD 2.9  | Surface movement guidance and control system and markings | AD 2-3 |
| VTSR | AD 2.10 | Aerodrome obstacles                                       | AD 2-3 |
| VTSR | AD 2.11 | Meteorological informational provided                     | AD 2-4 |
| VTSR | AD 2.12 | Runway Physical characteristics                           | AD 2-4 |
| VTSR | AD 2.13 | Declared distances                                        | AD 2-5 |
| VTSR | AD 2.14 | Approach and runway lighting                              | AD 2-5 |
| VTSR | AD 2.15 | Other lighting, secondary power supply                    | AD 2-5 |
| VTSR | AD 2.16 | Helicopter landing area                                   | AD 2-6 |
| VTSR | AD 2.17 | ATS airspace                                              | AD 2-6 |
| VTSR | AD 2.18 | ATS communication facilities                              | AD 2-6 |
| VTSR | AD 2.19 | Radio navigation and landing aids                         | AD 2-7 |
| VTSR | AD 2.20 | Local aerodrome regulations                               | AD 2-8 |
| VTSR | AD 2.21 | Noise abatement procedures                                | AD 2-8 |
| VTSR | AD 2.22 | Flight procedures                                         | AD 2-8 |
| VTSR | AD 2.23 | Additional information                                    | AD 2-8 |
| VTSR | AD 2.24 | Charts related to an aerodrome                            | AD 2-9 |

## → ROI ET

|      |         |                                                           |        |
|------|---------|-----------------------------------------------------------|--------|
| VTUV | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1 |
| VTUV | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1 |
| VTUV | AD 2.3  | Operational hours                                         | AD 2-1 |
| VTUV | AD 2.4  | Handling services and facilities                          | AD 2-2 |
| VTUV | AD 2.5  | Passenger facilities                                      | AD 2-2 |
| VTUV | AD 2.6  | Rescue and fire fighting services                         | AD 2-2 |
| VTUV | AD 2.7  | Seasonal availability – clearing                          | AD 2-2 |
| VTUV | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-3 |
| VTUV | AD 2.9  | Surface movement guidance and control system and markings | AD 2-3 |
| VTUV | AD 2.10 | Aerodrome obstacles                                       | AD 2-3 |
| VTUV | AD 2.11 | Meteorological informational provided                     | AD 2-4 |
| VTUV | AD 2.12 | Runway Physical characteristics                           | AD 2-4 |
| VTUV | AD 2.13 | Declared distances                                        | AD 2-5 |
| VTUV | AD 2.14 | Approach and runway lighting                              | AD 2-5 |
| VTUV | AD 2.15 | Other lighting, secondary power supply                    | AD 2-5 |
| VTUV | AD 2.16 | Helicopter landing area                                   | AD 2-6 |
| VTUV | AD 2.17 | ATS airspace                                              | AD 2-6 |
| VTUV | AD 2.18 | ATS communication facilities                              | AD 2-6 |
| VTUV | AD 2.19 | Radio navigation and landing aids                         | AD 2-7 |
| VTUV | AD 2.20 | Local aerodrome regulations                               | AD 2-8 |
| VTUV | AD 2.21 | Noise abatement procedures                                | AD 2-8 |
| VTUV | AD 2.22 | Flight procedures                                         | AD 2-8 |
| VTUV | AD 2.23 | Additional information                                    | AD 2-8 |
| VTUV | AD 2.24 | Charts related to an aerodrome                            | AD 2-9 |

## AD 2. AERODROMES

## SAKON NAKHON

|      |         |                                                           |        |
|------|---------|-----------------------------------------------------------|--------|
| VTUI | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1 |
| VTUI | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1 |
| VTUI | AD 2.3  | Operational hours                                         | AD 2-1 |
| VTUI | AD 2.4  | Handling services and facilities                          | AD 2-1 |
| VTUI | AD 2.5  | Passenger facilities                                      | AD 2-1 |
| VTUI | AD 2.6  | Rescue and fire fighting services                         | AD 2-2 |
| VTUI | AD 2.7  | Seasonal availability – clearing                          | AD 2-2 |
| VTUI | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-2 |
| VTUI | AD 2.9  | Surface movement guidance and control system and markings | AD 2-2 |
| VTUI | AD 2.10 | Aerodrome obstacles                                       | AD 2-3 |
| VTUI | AD 2.11 | Meteorological informational provided                     | AD 2-3 |
| VTUI | AD 2.12 | Runway Physical characteristics                           | AD 2-4 |
| VTUI | AD 2.13 | Declared distances                                        | AD 2-4 |
| VTUI | AD 2.14 | Approach and runway lighting                              | AD 2-4 |
| VTUI | AD 2.15 | Other lighting, secondary power supply                    | AD 2-5 |
| VTUI | AD 2.16 | Helicopter landing area                                   | AD 2-5 |
| VTUI | AD 2.17 | ATS airspace                                              | AD 2-5 |
| VTUI | AD 2.18 | ATS communication facilities                              | AD 2-5 |
| VTUI | AD 2.19 | Radio navigation and landing aids                         | AD 2-6 |
| VTUI | AD 2.20 | Local aerodrome regulations                               | AD 2-7 |
| VTUI | AD 2.21 | Noise abatement procedures                                | AD 2-8 |
| VTUI | AD 2.22 | Flight procedures                                         | AD 2-8 |
| VTUI | AD 2.23 | Additional information                                    | AD 2-8 |
| VTUI | AD 2.24 | Charts related to an aerodrome                            | AD 2-9 |

## SONGKHLA

|      |         |                                                           |        |
|------|---------|-----------------------------------------------------------|--------|
| VTSH | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1 |
| VTSH | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1 |
| VTSH | AD 2.3  | Operational hours                                         | AD 2-1 |
| VTSH | AD 2.4  | Handling services and facilities                          | AD 2-1 |
| VTSH | AD 2.5  | Passenger facilities                                      | AD 2-2 |
| VTSH | AD 2.6  | Rescue and fire fighting services                         | AD 2-2 |
| VTSH | AD 2.7  | Seasonal availability – clearing                          | AD 2-2 |
| VTSH | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-2 |
| VTSH | AD 2.9  | Surface movement guidance and control system and markings | AD 2-3 |
| VTSH | AD 2.10 | Aerodrome obstacles                                       | AD 2-3 |
| VTSH | AD 2.11 | Meteorological informational provided                     | AD 2-3 |
| VTSH | AD 2.12 | Runway Physical characteristics                           | AD 2-4 |
| VTSH | AD 2.13 | Declared distances                                        | AD 2-4 |
| VTSH | AD 2.14 | Approach and runway lighting                              | AD 2-5 |
| VTSH | AD 2.15 | Other lighting, secondary power supply                    | AD 2-5 |
| VTSH | AD 2.16 | Helicopter landing area                                   | AD 2-5 |
| VTSH | AD 2.17 | ATS airspace                                              | AD 2-6 |
| VTSH | AD 2.18 | ATS communication facilities                              | AD 2-6 |
| VTSH | AD 2.19 | Radio navigation and landing aids                         | AD 2-6 |
| VTSH | AD 2.20 | Local aerodrome regulations                               | AD 2-7 |
| VTSH | AD 2.21 | Noise abatement procedures                                | AD 2-7 |
| VTSH | AD 2.22 | Flight procedures                                         | AD 2-7 |
| VTSH | AD 2.23 | Additional information                                    | AD 2-7 |
| VTSH | AD 2.24 | Charts related to an aerodrome                            | AD 2-9 |

## SUKHOTHAI

|      |        |                                                |        |
|------|--------|------------------------------------------------|--------|
| VTPO | AD 2.1 | Aerodrome location indicator and name          | AD 2-1 |
| VTPO | AD 2.2 | Aerodrome geographical and administrative data | AD 2-1 |
| VTPO | AD 2.3 | Operational hours                              | AD 2-1 |
| VTPO | AD 2.4 | Handling services and facilities               | AD 2-2 |
| VTPO | AD 2.5 | Passenger facilities                           | AD 2-2 |
| VTPO | AD 2.6 | Rescue and fire fighting services              | AD 2-2 |

## AD 2. AERODROMES

### SUKHOTHAI

|      |         |                                                           |        |
|------|---------|-----------------------------------------------------------|--------|
| VTPO | AD 2.7  | Seasonal availability – clearing                          | AD 2-2 |
| VTPO | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-3 |
| VTPO | AD 2.9  | Surface movement guidance and control system and markings | AD 2-3 |
| VTPO | AD 2.10 | Aerodrome obstacles                                       | AD 2-3 |
| VTPO | AD 2.11 | Meteorological informational provided                     | AD 2-4 |
| VTPO | AD 2.12 | Runway Physical characteristics                           | AD 2-4 |
| VTPO | AD 2.13 | Declared distances                                        | AD 2-5 |
| VTPO | AD 2.14 | Approach and runway lighting                              | AD 2-5 |
| VTPO | AD 2.15 | Other lighting, secondary power supply                    | AD 2-5 |
| VTPO | AD 2.16 | Helicopter landing area                                   | AD 2-5 |
| VTPO | AD 2.17 | ATS airspace                                              | AD 2-6 |
| VTPO | AD 2.18 | ATS communication facilities                              | AD 2-6 |
| VTPO | AD 2.19 | Radio navigation and landing aids                         | AD 2-6 |
| VTPO | AD 2.20 | Local aerodrome regulations                               | AD 2-7 |
| VTPO | AD 2.21 | Noise abatement procedures                                | AD 2-8 |
| VTPO | AD 2.22 | Flight procedures                                         | AD 2-8 |
| VTPO | AD 2.23 | Additional information                                    | AD 2-8 |
| VTPO | AD 2.24 | Charts related to an aerodrome                            | AD 2-9 |

### SURAT THANI

|      |         |                                                           |         |
|------|---------|-----------------------------------------------------------|---------|
| VTSB | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1  |
| VTSB | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1  |
| VTSB | AD 2.3  | Operational hours                                         | AD 2-1  |
| VTSB | AD 2.4  | Handling services and facilities                          | AD 2-2  |
| VTSB | AD 2.5  | Passenger facilities                                      | AD 2-2  |
| VTSB | AD 2.6  | Rescue and fire fighting services                         | AD 2-2  |
| VTSB | AD 2.7  | Seasonal availability – clearing                          | AD 2-2  |
| VTSB | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-3  |
| VTSB | AD 2.9  | Surface movement guidance and control system and markings | AD 2-3  |
| VTSB | AD 2.10 | Aerodrome obstacles                                       | AD 2-3  |
| VTSB | AD 2.11 | Meteorological informational provided                     | AD 2-4  |
| VTSB | AD 2.12 | Runway Physical characteristics                           | AD 2-4  |
| VTSB | AD 2.13 | Declared distances                                        | AD 2-5  |
| VTSB | AD 2.14 | Approach and runway lighting                              | AD 2-5  |
| VTSB | AD 2.15 | Other lighting, secondary power supply                    | AD 2-5  |
| VTSB | AD 2.16 | Helicopter landing area                                   | AD 2-6  |
| VTSB | AD 2.17 | ATS airspace                                              | AD 2-6  |
| VTSB | AD 2.18 | ATS communication facilities                              | AD 2-6  |
| VTSB | AD 2.19 | Radio navigation and landing aids                         | AD 2-7  |
| VTSB | AD 2.20 | Local aerodrome regulations                               | AD 2-9  |
| VTSB | AD 2.21 | Noise abatement procedures                                | AD 2-9  |
| VTSB | AD 2.22 | Flight procedures                                         | AD 2-9  |
| VTSB | AD 2.23 | Additional information                                    | AD 2-10 |
| VTSB | AD 2.24 | Charts related to an aerodrome                            | AD 2-11 |

### SURAT THANI/ Samui

|      |         |                                                           |        |
|------|---------|-----------------------------------------------------------|--------|
| VTSM | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1 |
| VTSM | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1 |
| VTSM | AD 2.3  | Operational hours                                         | AD 2-1 |
| VTSM | AD 2.4  | Handling services and facilities                          | AD 2-1 |
| VTSM | AD 2.5  | Passenger facilities                                      | AD 2-2 |
| VTSM | AD 2.6  | Rescue and fire fighting services                         | AD 2-2 |
| VTSM | AD 2.7  | Seasonal availability – clearing                          | AD 2-2 |
| VTSM | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-2 |
| VTSM | AD 2.9  | Surface movement guidance and control system and markings | AD 2-2 |
| VTSM | AD 2.10 | Aerodrome obstacles                                       | AD 2-3 |
| VTSM | AD 2.11 | Meteorological informational provided                     | AD 2-3 |
| VTSM | AD 2.12 | Runway Physical characteristics                           | AD 2-4 |

## AD 2. AERODROMES

## TRAT

|      |         |                                                           |        |
|------|---------|-----------------------------------------------------------|--------|
| VTBO | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1 |
| VTBO | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1 |
| VTBO | AD 2.3  | Operational hours                                         | AD 2-1 |
| VTBO | AD 2.4  | Handling services and facilities                          | AD 2-2 |
| VTBO | AD 2.5  | Passenger facilities                                      | AD 2-2 |
| VTBO | AD 2.6  | Rescue and fire fighting services                         | AD 2-2 |
| VTBO | AD 2.7  | Seasonal availability – clearing                          | AD 2-2 |
| VTBO | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-3 |
| VTBO | AD 2.9  | Surface movement guidance and control system and markings | AD 2-3 |
| VTBO | AD 2.10 | Aerodrome obstacles                                       | AD 2-3 |
| VTBO | AD 2.11 | Meteorological informational provided                     | AD 2-4 |
| VTBO | AD 2.12 | Runway Physical characteristics                           | AD 2-4 |
| VTBO | AD 2.13 | Declared distances                                        | AD 2-5 |
| VTBO | AD 2.14 | Approach and runway lighting                              | AD 2-5 |
| VTBO | AD 2.15 | Other lighting, secondary power supply                    | AD 2-5 |
| VTBO | AD 2.16 | Helicopter landing area                                   | AD 2-6 |
| VTBO | AD 2.17 | ATS airspace                                              | AD 2-6 |
| VTBO | AD 2.18 | ATS communication facilities                              | AD 2-6 |
| VTBO | AD 2.19 | Radio navigation and landing aids                         | AD 2-7 |
| VTBO | AD 2.20 | Local aerodrome regulations                               | AD 2-8 |
| VTBO | AD 2.21 | Noise abatement procedures                                | AD 2-8 |
| VTBO | AD 2.22 | Flight procedures                                         | AD 2-8 |
| VTBO | AD 2.23 | Additional information                                    | AD 2-8 |
| VTBO | AD 2.24 | Charts related to an aerodrome                            | AD 2-9 |

## → UBON RATCHATHANI / Ubon

|      |         |                                                           |         |
|------|---------|-----------------------------------------------------------|---------|
| VTUU | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1  |
| VTUU | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1  |
| VTUU | AD 2.3  | Operational hours                                         | AD 2-1  |
| VTUU | AD 2.4  | Handling services and facilities                          | AD 2-1  |
| VTUU | AD 2.5  | Passenger facilities                                      | AD 2-2  |
| VTUU | AD 2.6  | Rescue and fire fighting services                         | AD 2-2  |
| VTUU | AD 2.7  | Seasonal availability – clearing                          | AD 2-2  |
| VTUU | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-2  |
| VTUU | AD 2.9  | Surface movement guidance and control system and markings | AD 2-2  |
| VTUU | AD 2.10 | Aerodrome obstacles                                       | AD 2-3  |
| VTUU | AD 2.11 | Meteorological informational provided                     | AD 2-6  |
| VTUU | AD 2.12 | Runway Physical characteristics                           | AD 2-6  |
| VTUU | AD 2.13 | Declared distances                                        | AD 2-7  |
| VTUU | AD 2.14 | Approach and runway lighting                              | AD 2-7  |
| VTUU | AD 2.15 | Other lighting, secondary power supply                    | AD 2-7  |
| VTUU | AD 2.16 | Helicopter landing area                                   | AD 2-8  |
| VTUU | AD 2.17 | ATS airspace                                              | AD 2-8  |
| VTUU | AD 2.18 | ATS communication facilities                              | AD 2-8  |
| VTUU | AD 2.19 | Radio navigation and landing aids                         | AD 2-9  |
| VTUU | AD 2.20 | Local aerodrome regulations                               | AD 2-10 |
| VTUU | AD 2.21 | Noise abatement procedures                                | AD 2-10 |
| VTUU | AD 2.22 | Flight procedures                                         | AD 2-10 |
| VTUU | AD 2.23 | Additional information                                    | AD 2-10 |
| VTUU | AD 2.24 | Charts related to an aerodrome                            | AD 2-11 |

## AD 2. AERODROMES

### UDON THANI / Udon

|      |         |                                                           |        |
|------|---------|-----------------------------------------------------------|--------|
| VTUD | AD 2.1  | Aerodrome location indicator and name                     | AD 2-1 |
| VTUD | AD 2.2  | Aerodrome geographical and administrative data            | AD 2-1 |
| VTUD | AD 2.3  | Operational hours                                         | AD 2-1 |
| VTUD | AD 2.4  | Handling services and facilities                          | AD 2-1 |
| VTUD | AD 2.5  | Passenger facilities                                      | AD 2-2 |
| VTUD | AD 2.6  | Rescue and fire fighting services                         | AD 2-2 |
| VTUD | AD 2.7  | Seasonal availability – clearing                          | AD 2-2 |
| VTUD | AD 2.8  | Aprons, taxiways and check locations data                 | AD 2-2 |
| VTUD | AD 2.9  | Surface movement guidance and control system and markings | AD 2-2 |
| VTUD | AD 2.10 | Aerodrome obstacles                                       | AD 2-3 |
| VTUD | AD 2.11 | Meteorological information provided                       | AD 2-3 |
| VTUD | AD 2.12 | Runway Physical characteristics                           | AD 2-4 |
| VTUD | AD 2.13 | Declared distances                                        | AD 2-4 |
| VTUD | AD 2.14 | Approach and runway lighting                              | AD 2-4 |
| VTUD | AD 2.15 | Other lighting, secondary power supply                    | AD 2-5 |
| VTUD | AD 2.16 | Helicopter landing area                                   | AD 2-5 |
| VTUD | AD 2.17 | ATS airspace                                              | AD 2-5 |
| VTUD | AD 2.18 | ATS communication facilities                              | AD 2-5 |
| VTUD | AD 2.19 | Radio navigation and landing aids                         | AD 2-6 |
| VTUD | AD 2.20 | Local aerodrome regulations                               | AD 2-7 |
| VTUD | AD 2.21 | Noise abatement procedures                                | AD 2-7 |
| VTUD | AD 2.22 | Flight procedures                                         | AD 2-7 |
| VTUD | AD 2.23 | Additional information                                    | AD 2-8 |
| VTUD | AD 2.24 | Charts related to an aerodrome                            | AD 2-9 |

## VTBD AD 2. AERODROMES

## VTBD AD 2.1 AERODROME LOCATION INDICATOR AND NAME

## VTBD - BANGKOK/DON MUEANG INTERNATIONAL AIRPORT

## VTBD AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

|   |                                                            |                                                                                                                                                                                                                                                                                                                                                                             |
|---|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | ARP coordinates and site at AD                             | Lat 135452N Long 1003620E centre line of RWY 03L/21R, 1510M from THR RWY 21R                                                                                                                                                                                                                                                                                                |
| 2 | Direction and distance from (city)                         | 12 NM NNE of Bangkok                                                                                                                                                                                                                                                                                                                                                        |
| 3 | Elevation/Reference temperature                            | 2.65m (9 ft) /35°C                                                                                                                                                                                                                                                                                                                                                          |
| 4 | Geoid undulation at AD ELEV PSN                            | Nil                                                                                                                                                                                                                                                                                                                                                                         |
| 5 | MAG VAR/Annual change                                      | 0° 39' W (2011)/ 0° 1' W                                                                                                                                                                                                                                                                                                                                                    |
| 6 | AD Administration, address, telephone, telefax, telex, AFS | Airports of Thailand Public Company Limited (AOT)<br>Don Mueang International Airport<br>ADD: 222 Vibhavadi Rangsit Road, Donmueang, Bangkok 10210<br>Tel: 66(0)2 535 1515, 66(0)2 535 1516<br>Fax: 66(0)2 535 1065, 66(0)2 535 1306<br>E-mail : dmk.dep@airportthai.co.th<br>Internet : <a href="http://www.airportthai.co.th">www.airportthai.co.th</a><br>AFS : VTBDYDYX |
| 7 | Types of traffic permitted (IFR/VFR)                       | IFR/VFR                                                                                                                                                                                                                                                                                                                                                                     |
| 8 | Remarks                                                    | Operator: Airports of Thailand Public Company Limited (AOT)                                                                                                                                                                                                                                                                                                                 |

## VTBD AD 2.3 OPERATIONAL HOURS

|    |                            |     |
|----|----------------------------|-----|
| 1  | AD Administration          | H24 |
| 2  | Customs and immigration    | H24 |
| 3  | Health and sanitation      | H24 |
| 4  | AIS Briefing Office        | H24 |
| 5  | ATS Reporting Office (ARO) | H24 |
| 6  | MET Briefing Office        | H24 |
| 7  | ATS                        | H24 |
| 8  | Fuelling                   | H24 |
| 9  | Handling                   | H24 |
| 10 | Security                   | H24 |
| 11 | De-icing                   | -   |
| 12 | Remarks                    | Nil |

VTBD AD 2.4 HANDLING SERVICES AND FACILITIES

|   |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Cargo-handling facilities               | Available from Bangkok Flight Services Co., Ltd. (BFS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2 | Fuel/oil types                          | Jet A1 and AVGAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 3 | Fuelling facilities/capacity            | 13 Fuel Trucks 15,000-75,000 liters/ Available From Bangkok Aviation Fuel Services Co., Ltd. (BAFS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 4 | De-icing facilities                     | Nil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 5 | Hangar space for visiting aircraft      | For Private Aircraft Maximum take-off weight $\leq$ 45,000 T, Operated by Mjets Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 6 | Repair facilities for visiting aircraft | a) Aircraft Maximum take-off weight > 45,000 T, Operated by Thai Airways International Plc.<br>b) Private Aircraft Maximum take-off weight $\leq$ 45,000 T, Operated by Mjets Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 7 | Remarks                                 | <p>The airport has provided ground handling agents as following number :</p> <p>a) MJETS LIMITED.(Private Aircraft only)<br/>Ground Handling Inquiry E-mail : <a href="mailto:ground@mjets.com">ground@mjets.com</a><br/>Flight Handling Inquiry E-mail : <a href="mailto:dispatch@mjets.com">dispatch@mjets.com</a><br/>General inquiry E-mail: <a href="mailto:info@mjets.com">info@mjets.com</a><br/>Phone : H24 66(0)85 485 6623 or 66(0)2 504 2950</p> <p>b) BFS Cargo DMK<br/>Email : <a href="mailto:BFSCGDMK@BFSASIA.COM">BFSCGDMK@BFSASIA.COM</a><br/>Phone : 66(0)2 504 3324-5<br/>Fax : 66(0)2 504 3326<br/>SITA : DMKTOXH</p> <p>c) LSG Sky Chefs (Thailand) Co.,Ltd<br/>Internet : <a href="http://www.lsgskychefs.com">www.lsgskychefs.com</a><br/>Airline Catering Service :<br/>Email : <a href="mailto:DL.APAC.BKK.CustomerServices@lsgskychefs.com">DL.APAC.BKK.CustomerServices@lsgskychefs.com</a><br/>Phone : 66(0)2 131 1900<br/>Fax : 66(0)2 131 1999<br/>SITA : BKKZFLH</p> <p>d) Thai Airways International Public Co.,Ltd.(TG)<br/>Email : <a href="mailto:tg.charter@thaiairways.com">tg.charter@thaiairways.com</a><br/>Phone : 66(0)2 563 8107<br/>Fax : 66(0)2 563 8106<br/>SITA : DMKZMTG<br/>AFTN : VTBDTHAK</p> <p>e) BAGS GROUND Services Co.,Ltd<br/>Ground Handling Inquiry<br/>E-mail : <a href="mailto:dutydmk@bags-groundservices.com">dutydmk@bags-groundservices.com</a><br/>Phone : 66(0)2 535 3853-55, 66(0)9 0198 1160<br/>Fax : 66(0)2 535 3851<br/>Operation Handling Inquiry<br/>E-mail : <a href="mailto:gsedmk@bags-groundservices.com">gsedmk@bags-groundservices.com</a><br/>Phone : 66(0)8 1918 3536<br/>SITA : DMKBSXH</p> |

## VTBD AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

| Designations<br>RWY<br>NR               | TRUE BRG                 | Dimensions<br>of RWY (M) | Strength (PCN)<br>and surface of<br>RWY and SWY | THR coordinates           | THR elevation<br>and<br>highest<br>elevation<br>of TDZ of<br>precision<br>APP RWY |
|-----------------------------------------|--------------------------|--------------------------|-------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------|
| 1                                       | 2                        | 3                        | 4                                               | 5                         | 6                                                                                 |
| 03L                                     | 029°<br>PA I             | 3 700x60                 | 126/F/D/W/T<br>Asphalt/Concrete                 | 135349.24N<br>1003545.38E | THR 2.0 M/7 FT                                                                    |
| 21R                                     | 209°<br>PA II            | 3 700x60                 | 126/F/D/W/T<br>Asphalt/Concrete                 | 135534.87N<br>1003644.62E | THR 2.0 M/7 FT                                                                    |
| 03R                                     | 028°<br>NPA              | 3 500x45                 | 126/F/D/W/T<br>Asphalt/Concrete                 | 135358.45N<br>1003605.50E | THR 1.49 M /<br>5 FT                                                              |
| 21L                                     | 208°<br>PA I             | 3 500x45                 | 126/F/D/W/T<br>Asphalt/Concrete                 | 135528.41N<br>1003655.96E | THR 1.92 M /<br>6.4 FT                                                            |
| Slope of<br>RWY-SWY                     | SWY<br>dimensions<br>(M) | CWY<br>dimensions<br>(M) | Strip<br>dimensions<br>(M)                      | OFZ                       | Remarks                                                                           |
| 7                                       | 8                        | 9                        | 10                                              | 11                        | 12                                                                                |
| -0.05% 0% -0.05%<br>(350M 2 850M 500M)  | 150x60                   | 150x150                  | 4 120x260                                       | Nil                       | Nil                                                                               |
| +0.056% 0% -0.05%<br>(500M 2 850M 350M) | 150x60                   | 150x150                  | 4 120x260                                       | Nil                       | Nil                                                                               |
| +0.03% -0.036%<br>(2 000M 1 500M)       | Nil                      | 150x150                  | 3 720x160                                       | Nil                       | Nil                                                                               |
| +0.036% -0.03%<br>(1 500M 2 000M)       | 100x45                   | 150x150                  | 3 720x160                                       | Nil                       | Nil                                                                               |

## VTBD AD 2.13 DECLARED DISTANCES

| RWY<br>Designator | TORA<br>(M) | TODA<br>(M) | ASDA<br>(M) | LDA<br>(M) | Remarks |
|-------------------|-------------|-------------|-------------|------------|---------|
| 1                 | 2           | 3           | 4           | 5          | 6       |
| 03L               | 3 700       | 3 850       | 3 850       | 3 700      | Nil     |
| 21R               | 3 700       | 3 850       | 3 850       | 3 700      | Nil     |
| 03R               | 3 500       | 3 650       | 3 500       | 3 500      | Nil     |
| 21L               | 3 500       | 3 650       | 3 600       | 3 150      | Nil     |

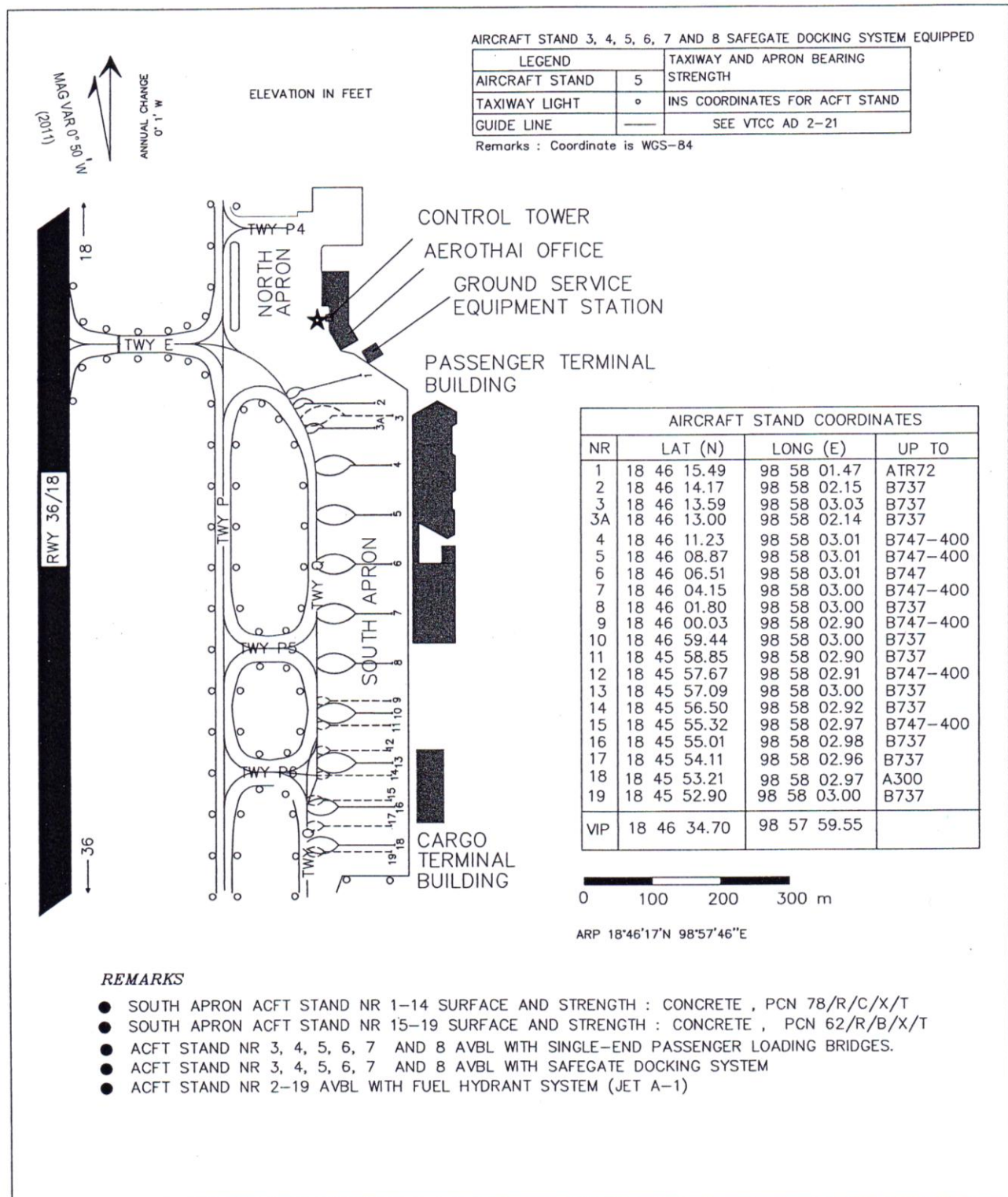
VTBD AD 2.14 APPROACH AND RUNWAY LIGHTING

| RWY<br>Desig-<br>nator | APCH<br>LGT<br>type<br>LEN<br>INTST | THRLG<br>colour<br>WBAR | VASIS<br>(MEHT)<br>PAPI                | TDZ,LGT<br>LEN | RWY<br>Centre<br>Line LGT<br>Length,<br>spacing,<br>colour,<br>INTST             | RWY<br>edge LGT<br>LEN,<br>spacing<br>colour<br>INTST                      | RWY<br>End<br>LGT<br>colour<br>WBAR | SWY LGT<br>LEN (M)<br>colour | Remarks |
|------------------------|-------------------------------------|-------------------------|----------------------------------------|----------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------|------------------------------|---------|
| 1                      | 2                                   | 3                       | 4                                      | 5              | 6                                                                                | 7                                                                          | 8                                   | 9                            | 10      |
| 03L                    | SALS<br>420M<br>LIH                 | Green                   | PAPI<br>LEFT/RIGHT<br>3°<br>(71.46 ft) | Nil            | 3700M,30M<br>White;<br>FM 2800M<br>- 3400M<br>Red/White;<br>FM 3400m<br>Red; LIH | 3700M,60M<br>White, LIH                                                    | Red                                 | 150M<br>Red                  | Nil     |
| 21R                    | CAT II<br>900M<br>LIH               | Green                   | PAPI<br>LEFT/RIGHT<br>3°<br>(65.06 ft) | 900M           | 3700M,30M<br>White;<br>FM 2800M<br>- 3400M<br>Red/White;<br>FM 3400m<br>Red; LIH | 3700M,60M<br>White; LIH                                                    | Red                                 | 150M<br>Red                  | Nil     |
| 03R                    | SALS<br>(5<br>BAR)<br>300M<br>LIH   | Green                   | PAPI<br>LEFT/RIGHT<br>3°<br>(63.81 ft) | Nil            | Nil                                                                              | 3500,60M<br>White;<br>FM 2900M<br>- 3500M<br>Yellow; LIH                   | Red                                 | Nil                          | Nil     |
| 21L                    | CAT I<br>900M<br>LIH                | Green                   | PAPI<br>LEFT/RIGHT<br>3°<br>(61.75 ft) | Nil            | Nil                                                                              | 3500,60M<br>Red;<br>FM 350M -<br>2900M<br>White<br>FM 2900M<br>Yellow; LIH | Red                                 | Nil                          | Nil     |

## VTCC AD 2.24 CHARTS RELATED TO THE AERODROME

|                                                                | Page         |
|----------------------------------------------------------------|--------------|
| Aerodrome Chart – ICAO                                         | VTCC AD 2-21 |
| Aircraft Parking/Docking Chart – ICAO                          | VTCC AD 2-23 |
| Aerodrome Ground Movement Chart – ICAO                         | VTCC AD 2-25 |
| Aerodrome Obstacle Chart – ICAO Type A-RWY 18/36               | VTCC AD 2-27 |
| Area Chart – ICAO                                              | VTCC AD 2-29 |
| Standard Instrument Departure Chart – RWY 18                   | VTCC AD 2-31 |
| Standard Instrument Departure Chart – RWY 18                   | VTCC AD 2-32 |
| Standard Instrument Departure Chart – RWY 36                   | VTCC AD 2-33 |
| Standard Instrument Departure Chart – RWY 36                   | VTCC AD 2-34 |
| Standard Departure Chart – Instrument - ICAO                   | VTCC AD 2-35 |
| Standard Departure Chart – Instrument - ICAO                   | VTCC AD 2-36 |
| Instrument Approach Chart - ICAO - RNAV(GNSS) RWY 36           | VTCC AD 2-37 |
| Instrument Approach Chart – ICAO – RWY 36 – VOR                | VTCC AD 2-39 |
| Instrument Approach Chart - ICAO - RNAV(GNSS) RWY 18           | VTCC AD 2-41 |
| Instrument Approach Chart – ICAO – RWY 36 – ILS or LOC         | VTCC AD 2-43 |
| Standard Departure Charts -                                    |              |
| RNAV (SID) – RWY 36 – WARMY 1 N WEEWA 1 N                      | VTCC AD 2-45 |
| RNAV (SID) – RWY 36 – WARMY 1 X WEEWA 1 X                      | VTCC AD 2-47 |
| RNAV (SID) – RWY 36 – NUNWA 1 N EASEE 1 N EMMET 1 N ANYAR 1 N  |              |
| PANTA 1 N ALLAY 1 N ZUGAR 1 N ZARDY 1 N                        | VTCC AD 2-49 |
| Standard Arrival Charts -                                      |              |
| RNAV (STAR) – RWY 36 – WARMY 1 A WEEWA 1 A                     | VTCC AD 2-51 |
| RNAV (STAR) – RWY 36 – NUNWA 1 A EASEE 1 A EMMET 1 A ANYAR 1 A |              |
| PANTA 1 A ALLAY 1 A MARNI 1 A ZUGAR 1 A ZARDY 1 A              | VTCC AD 2-53 |

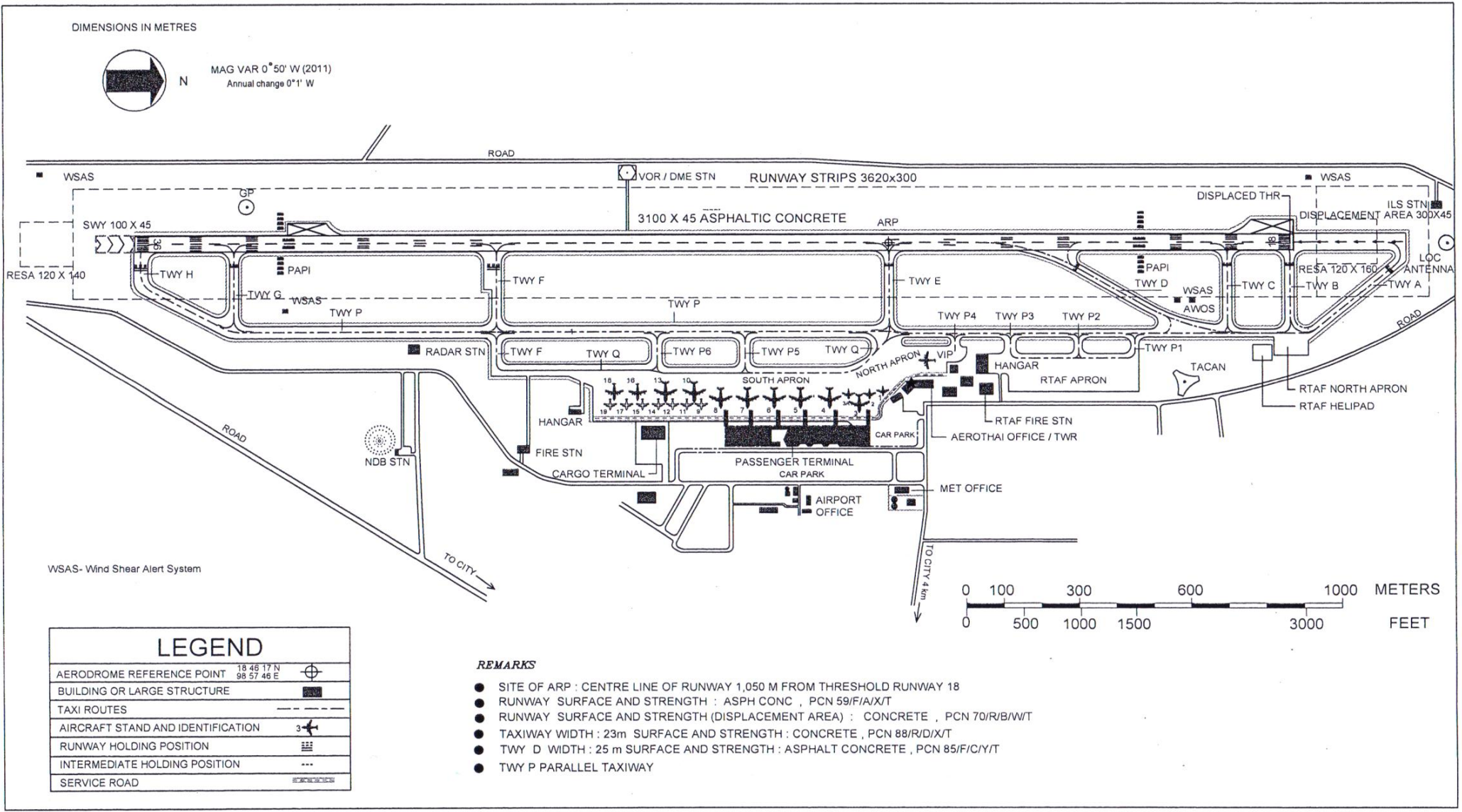
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AIRCRAFT PARKING /  
DOCKING CHART - ICAOSOUTH APRON  
ELEV 1020 ftTWR 118.1  
GND 121.9CHIANG MAI  
CHIANG MAI / INTL

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AERODROME GROUND MOVEMENT CHART

Chiangmai International Airport



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**VTSP AD 2.20 LOCAL AERODROME REGULATIONS****VFR REPORTING POINTS AND LOCAL PROCEDURES****PHUKET INTERNATIONAL AIRPORT****1. Reporting points for VFR flight**

In order to expedite and maintain an orderly flow of air traffic into airport, the procedure of the inbound traffic of VFR flights, conventional and prop-jet aircraft, be set up as follow:

- a) Aircraft entering to land from north of Phuket International Airport, shall report over Thai Muang District, designated as TANGO MIKE (0823.5N 9816.0E) and Ban Khok Kloi designated as KILO KILO (0816.0N 9819.0E) which are approximately 17 NM on R-352 and 9 NM on R-360 of PUT VOR/DME respectively. When reaching KK the aircraft will be instructed to join aerodrome traffic circuit accordingly.
- b) Aircraft entering to land from northeast of Phuket International Airport, shall report over Phang Nga City, designated as PAPA NOVEMBER (0826.5N 9831.5E) which is 24 NM on R-033 of PUT VOR/DME. When reaching PN the aircraft will be instructed to join aerodrome traffic circuit accordingly.
- c) Aircraft entering to land from east of Phuket International Airport, shall report over Ko Yao Noi, designated as YANKEE NOVEMBER (0807.0N 9837.0E) which is 18 NM on R-089 of PUT VOR/DME. When reaching YN the aircraft will be instructed to join aerodrome traffic circuit accordingly.
- d) Aircraft entering to land from south of Phuket International Airport, shall report over Ko Racha Yai, designated as ROMEO CHARLIE (0736.0N 9822.0E) and Phuket City, designated as PAPA KILO (0753.0N 9823.5E) which are approximately 31 NM on R-174 and 15 NM on R-160 of PUT VOR/DME respectively. When reach PK the aircraft will be instructed to join aerodrome traffic circuit accordingly.

**2. Aerodrome traffic circuit**

Using both sides of traffic circuit.

**3. Overhead approach pattern**

- a) Using runway 09 by left turn pattern.
- b) Using runway 27 by left turn pattern.

**STARTING UP PROCEDURE****1. Phuket International Airport**

- 1.1 All IFR aircraft are to call "Ground Control" 5 minutes prior to start up to request for ATC clearance.
- 1.2 Pilots are to inform "Ground Control" their call signs, and proposed flight level if it is different from the flight plan when they make the call as item 1.1 above.
- 1.3 In order to provide a more flexible ground traffic movement all domestic departures shall on longer be required to be ready to taxi within 5 minutes after clearance received.

**2. Surface Movement**

The supplementary of surface movement procedures has been established at Phuket International Airport as follows :-

**2.1 Parking procedures :**

- A. Nose – in parking system except stand NR 21 to 28
- B. Ground services are provided by aircraft operating agency, for non-agency aircraft are persuaded to contact THAI INTER traffic on VHF 131.5 MHz or TAGS on VHF 135.4 MHz 15 MIN prior to arrival or notify by Flight Plan.

**2.2 Start up and push back procedures :**

- A. All aircraft are to start up and push back with minimum power

**2.3 Manoeuvring on movement area :**

- A. Area of apron D and Almost of the area between apron Alpha to Charlie is the blind spot area, when ATC instruction is issued, aircraft are to manoeuvre by pilot discretion.
- B. Simultaneous operations on near parallel TWY due to minimum separation distance between RCL and TWY center line is 150 m. Aircraft code C, D, E may be requested to hold on the TWY when aircraft code C, D, E take-off or landing in IMC.
- C. Taxiing on TWY PAPA in connection with TWY ECHO due to the minimum separation distance between TWY center line and objects is 39.5 m wide body aircraft to taxi with extreme caution.

**VTSP AD 2.21 NOISE ABATEMENT PROCEDURES**

**Nil**

**VTSP AD 2.22 FLIGHT PROCEDURES**

**Nil**

**VTSP AD 2.23 ADDITIONAL INFORMATION**

**Nil**

**VTBS 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 | Taxiing guidance signs at all intersections with TWY and RWY and at all holding positions.<br>Guidelines at apron.<br>Nose-in guidance at aircraft stands.<br>Description of Visual Docking Guidance System explained in AIC 1/15 dated 10 April 2015. |
| 2 | RWY and TWY markings and LGT                                                                                  | RWY : Designation, THR, TDZ, center line, edge and runway end marked and lighted.<br>TWY : Centreline and edge marked and lighted.                                                                                                                     |
| 3 | Stop bars                                                                                                     | Stop bars at runway holding positions on all TWY/RWY intersections.                                                                                                                                                                                    |
| 4 | Remarks                                                                                                       | Intermediate holding positions are provided at some TWY/TWY intersections                                                                                                                                                                              |



VTBS AD 2.10 AERODROME OBSTACLES

| In approach/TKOF areas |                                                  |                               | In circling area and at AD                                    |                               | Remarks |
|------------------------|--------------------------------------------------|-------------------------------|---------------------------------------------------------------|-------------------------------|---------|
| 1                      |                                                  |                               | 2                                                             |                               | 3       |
| RWY NR/Area affected   | Obstacle type<br>Elevation<br>Markings/LGT       | Coordinates                   | Obstacle type Elevation<br>Markings/LGT                       | Coordinates                   |         |
| a                      | b                                                | c                             | a                                                             | b                             |         |
| 19R/APCH<br>01L/TKOF   |                                                  |                               | Control Tower Top of<br>Antenna<br>144.9 m (475.4 ft)<br>LGTD | 13°41'47.2"N<br>100°44'58.3"E |         |
|                        |                                                  |                               | Tower on top of<br>building<br>54.3 m (178.2 ft)              | 13°41'24.1"N<br>100°43'46.5"E |         |
| 01L/APCH<br>19R/TKOF   | Tower on top of<br>building<br>53.2 m (174.6 ft) | 13°38'08.2"N<br>100°43'40.2"E | Tower<br>49.0 m (160.8 ft)                                    | 13°39'43.8"N<br>100°42'59.5"E |         |
|                        | Tower on top of<br>building<br>54.8 m (179.8 ft) | 13°37'51.8"N<br>100°43'54.2"E | Tower on top of<br>building<br>58.2 m (191.0 ft)              | 13°38'10.0"N<br>100°42'33.7"E |         |
|                        |                                                  |                               | Tower<br>116.4 m (381.9 ft)                                   | 13°38'02.9"N<br>100°42'17.7"E |         |
|                        |                                                  |                               | Tower<br>91.6 m (300.5 ft)                                    | 13°37'47.5"N<br>100°42'26.1"E |         |
|                        |                                                  |                               | Tower<br>49.0 m (160.8 ft)                                    | 13°38'06.3"N<br>100°42'37.6"E |         |
| 19L/APCH<br>01R/TKOF   | Tower on top of<br>building<br>78.1 m (256.3 ft) | 13°43'39.8"N<br>100°46'20.6"E |                                                               |                               |         |
|                        | Tower<br>44.4 m (145.7 ft)                       | 13°43'16.9"N<br>100°45'49.8"E |                                                               |                               |         |
|                        | Hangar roof<br>46.7 m (153.2 ft)<br>LGTD         | 13°42'24.7"N<br>100°45'34.8"E |                                                               |                               |         |
|                        | Hangar corner<br>39.7 m (130.3 ft)<br>LGTD       | 13°42'22.0"N<br>100°45'38.9"E |                                                               |                               |         |
|                        | Tower on top of<br>building<br>48.9 m (160.4 ft) | 13°43'32.3"N<br>100°46'17.2"E |                                                               |                               |         |
| 01R/APCH<br>19L/TKOF   | Building<br>101.8 m (334.0 ft)                   | 13°35'12.8"N<br>100°44'25.7"E | Tower<br>69.8 m (229.0 ft)                                    | 13°37'22.2"N<br>100°45'36.0"E |         |
|                        | Tower<br>106.7 m (350.1 ft)                      | 13°34'58.3"N<br>100°44'30.7"E |                                                               |                               |         |
|                        | Tower<br>118.7 m (389.5 ft)                      | 13°34'58.1"N<br>100°44'29.0"E |                                                               |                               |         |

## VTBU AD 2. AERODROMES

## VTBU AD 2.1 AERODROME LOCATION INDICATOR AND NAME

## VTBU – RAYONG / U-TAPAO RAYONG PATTAYA INTERNATIONAL AIRPORT

## VTBU AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

|   |                                                            |                                                                                                                                                      |
|---|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | ARP coordinates and site at AD                             | 124046.6N1010017.7E<br>Centre of the runway, 1752.5 M from THR RWY18                                                                                 |
| 2 | Direction and distance from (city)                         | 34 km W of Rayong                                                                                                                                    |
| 3 | Elevation/Reference temperature                            | 18 m (59 ft) /34°C                                                                                                                                   |
| 4 | Geoid undulation at AD ELEV PSN                            | Nil                                                                                                                                                  |
| 5 | MAG VAR/Annual change                                      | 0°24' W (2001) / 3'E                                                                                                                                 |
| 6 | AD Administration, address, telephone, telefax, telex, AFS | Royal Thai Naval Air Division<br>U-Tapao Rayong Pattaya International Airport<br>Banchang Rayong 21130<br>TEL. (038) 245193, 245600<br>AFS: VTBUZTZX |
| 7 | Types of traffic permitted (IFR/VFR)                       | IFR/VFR                                                                                                                                              |
| 8 | Remarks                                                    | Operator: Royal Thai Navy                                                                                                                            |

## VTBU AD 2.3 OPERATIONAL HOURS

|    |                            |      |
|----|----------------------------|------|
| 1  | AD Administration          | H 24 |
| 2  | Customs and immigration    | H 24 |
| 3  | Health and sanitation      | H 24 |
| 4  | AIS Briefing Office        | H 24 |
| 5  | ATS Reporting Office (ARO) | H 24 |
| 6  | MET Briefing Office        | H 24 |
| 7  | ATS                        | H 24 |
| 8  | Fuelling                   | H 24 |
| 9  | Handling                   | H 24 |
| 10 | Security                   | H 24 |
| 11 | De-icing                   | -    |
| 12 | Remarks                    | Nil  |

**VTBU AD 2.4 HANDLING SERVICES AND FACILITIES**

|   |                                         |                                                                                                                                                                                                                                                  |
|---|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Cargo-handling facilities               | Handling weights up to 3 tons                                                                                                                                                                                                                    |
| 2 | Fuel/oil types                          | Jet A-1, AVGAS, JP-8                                                                                                                                                                                                                             |
| 3 | Fuelling facilities/capacity            | 1 JET A-1 Refueller @ 40,000 L<br>2 JET A-1 Refueller @ 12,000 L<br>1 Hydrant Dispenser for JET A-1<br>1 JET A-1 Refueller @ 45,000 L<br>1 JET A-1 Refueller @ 12,000 L<br>3 Hydrant Cart for JP-8<br>1 AVGAS DC Motor dispenser from drum 200 L |
| 4 | De-icing facilities                     | -                                                                                                                                                                                                                                                |
| 5 | Hangar space for visiting aircraft      | -                                                                                                                                                                                                                                                |
| 6 | Repair facilities for visiting aircraft | -                                                                                                                                                                                                                                                |
| 7 | Remarks                                 | Nil                                                                                                                                                                                                                                              |

**VTBU AD 2.5 PASSENGER FACILITIES**

|   |                      |                                                        |
|---|----------------------|--------------------------------------------------------|
| 1 | Hotels               | 5 KM from AD and in the city                           |
| 2 | Restaurants          | In Pattaya city and Banchang                           |
| 3 | Transportation       | Airport buses and limousines                           |
| 4 | Medical facilities   | first aid station and queen Sirikit Hospital in the AD |
| 5 | Bank and Post Office | 2 KM from AD                                           |
| 6 | Tourist Office       | In Pattaya city                                        |
| 7 | Remarks              | Nil                                                    |

**VTBU AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

|   |                                             |                                               |
|---|---------------------------------------------|-----------------------------------------------|
| 1 | AD category for fire fighting               | 24 HR: CAT 10                                 |
| 2 | Rescue equipment                            | 2 boats of 10 people, Rescue truck, Ambulance |
| 3 | Capability for removal of disabled aircraft | -                                             |
| 4 | Remarks                                     | Nil                                           |

**VTBU AD 2.7 SEASONAL AVAILABILITY-CLEARING**

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

## VTSS AD 2. AERODROMES

## VTSS AD 2.1 AERODROME LOCATION INDICATOR AND NAME

## VTSS - SONGKHLA / HAT YAI INTERNATIONAL AIRPORT

## VTSS AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

|   |                                                            |                                                                                                                                                                           |
|---|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | ARP coordinates and site at AD                             | 06 55 58N100 23 42E(WGS-84)<br>Centre of runway 1600 M from THR RWY 08                                                                                                    |
| 2 | Direction and distance from (city)                         | 12 KM SW                                                                                                                                                                  |
| 3 | Elevation/Reference temperature                            | 27.5 M (90 ft) /26.8°C                                                                                                                                                    |
| 4 | Geoid undulation at AD ELEV PSN                            | Nil                                                                                                                                                                       |
| 5 | MAG VAR/Annual change                                      | 0° 22' W(2011)/ 0° 1' W                                                                                                                                                   |
| 6 | AD Administration, address, telephone, telefax, telex, AFS | Hat Yai International<br>Airports of Thailand Public Company Limited<br>Hat Yai, Songkhla 90115, Thailand.<br>Tel. 66-0-7422-7000<br>Fax. 66-0-7425-1334<br>AFS: VTSSYDYX |
| 7 | Types of traffic permitted (IFR/VFR)                       | IFR/VFR                                                                                                                                                                   |
| 8 | Remarks                                                    | Operator: Airports of Thailand Public Company Limited (AOT)                                                                                                               |

## VTSS AD 2.3 OPERATIONAL HOURS

|    |                            |                                                                       |
|----|----------------------------|-----------------------------------------------------------------------|
| 1  | AD Administration          | AD 2300-1700, ATS H24                                                 |
| 2  | Customs and immigration    | Available within AD hours, Immigration : H24                          |
| 3  | Health and sanitation      | Available within AD hours                                             |
| 4  | AIS Briefing Office        | H24                                                                   |
| 5  | ATS Reporting Office (ARO) | H24                                                                   |
| 6  | MET Briefing Office        | H24                                                                   |
| 7  | ATS                        | H24                                                                   |
| 8  | Fuelling                   | H24 (Jet A-1 and AVGAS 100 LL)                                        |
| 9  | Handling                   | AD 2300-1400, from 1400-1700 shall be requested 3 hrs. prior landing. |
| 10 | Security                   | H24                                                                   |
| 11 | De-icing                   | Nil                                                                   |
| 12 | Remarks                    | Nil                                                                   |

**VTSS AD 2.4 HANDLING SERVICES AND FACILITIES**

|   |                                         |                                                                                                                                                      |
|---|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Cargo-handling facilities               | 2 Forklifts 2 and 3 tonnes, 1 Tractor. Handling weights up to 20 tonnes per day. Provided by Thai Airways International Public Co., Ltd.             |
| 2 | Fuel/oil types                          | Jet A-1, AVGAS                                                                                                                                       |
| 3 | Fuelling facilities/capacity            | 2 JET A-1 Refueller @ 12,000 LTS<br>1 AVGAS 100LL Refueller @ 3,000 LTS<br>- JET A-1: 4 tank.TTK 960,000 LTS<br>- AVGAS 100 LL: 1 tank.TTK 3,000 LTS |
| 4 | De-icing facilities                     | Nil                                                                                                                                                  |
| 5 | Hangar space for visiting aircraft      | Nil                                                                                                                                                  |
| 6 | Repair facilities for visiting aircraft | Nil                                                                                                                                                  |
| 7 | Remarks                                 | Nil                                                                                                                                                  |

**VTSS AD 2.5 PASSENGER FACILITIES**

|   |                      |                                                                  |
|---|----------------------|------------------------------------------------------------------|
| 1 | Hotels               | in the city                                                      |
| 2 | Restaurants          | At AD and in the city                                            |
| 3 | Transportation       | Limousines and Taxis                                             |
| 4 | Medical facilities   | First aid at AD. Hospitals in the city                           |
| 5 | Bank and Post Office | In the city/ At AD open within AD HR.                            |
| 6 | Tourist Office       | Office in the city<br>Tel. (074) 243747<br>Telefax. (074) 245986 |
| 7 | Remarks              | Nil                                                              |

**VTSS AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

|   |                                             |                                    |
|---|---------------------------------------------|------------------------------------|
| 1 | AD category for fire fighting               | Category 9                         |
| 2 | Rescue equipment                            | Facility of Category 9 is provided |
| 3 | Capability for removal of disabled aircraft | Available – Up to B747             |
| 4 | Remarks                                     | Nil                                |

**VTSS AD 2.7 SEASONAL AVAILABILITY - CLEARING**

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

## VTSS AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

| Designations<br>RWY<br>NR                                    | TRUE &<br>MAG BRG | Dimensions<br>of RWY (M) | Strength (PCN)<br>and surface of<br>RWY and SWY | THR coordinates                       | THR elevation and<br>highest elevation<br>of TDZ of precision<br>APP RWY |         |
|--------------------------------------------------------------|-------------------|--------------------------|-------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------|---------|
| 1                                                            | 2                 | 3                        | 4                                               | 5                                     | 6                                                                        |         |
| 08                                                           | 082°              | 3 050x45                 | 60/F/C/X/T<br>Asphaltic Concrete                | 065551.55N<br>1002249.84E<br>(WGS-84) | THR 19.81 m/65 ft                                                        |         |
| 26                                                           | 262°              | 3 050x45                 | 60/F/C/X/T<br>Asphaltic Concrete                | 065603.92N<br>1002428.30E<br>(WGS-84) | THR 17.81 m/58 ft                                                        |         |
| Slope of<br>RWY-SWY                                          |                   | SWY<br>dimensions<br>(m) | CWY<br>dimension<br>(m)                         | Strip<br>dimensions<br>(m)            | OFZ                                                                      | Remarks |
| 7                                                            |                   | 8                        | 9                                               | 10                                    | 11                                                                       | 12      |
| 0.60% +0.30% -0.13% -0.80%<br>(1110 m 1460 m 1910 m 3050 m)  |                   | 60x45                    | Nil                                             | 3290x300                              | Nil                                                                      | Nil     |
| +0.80% +0.13% -0.30% -0.60%<br>(1140 m 1590 m 1940 m 3050 m) |                   | 60x45                    | Nil                                             | 3290x300                              | Nil                                                                      | Nil     |

## VTSS AD 2.13 DECLARED DISTANCESVTSS

| RWY<br>Designator | TORA<br>(m) | TODA<br>(m) | ASDA<br>(m) | LDA<br>(m) | Remarks |
|-------------------|-------------|-------------|-------------|------------|---------|
| 1                 | 2           | 3           | 4           | 5          | 6       |
| 08                | 3050        | 3050        | 3110        | 3050       | -       |
| 26                | 3050        | 3050        | 3110        | 3050       | -       |

**VTSS AD 2.14 APPROACH AND RUNWAY LIGHTING**

| RWY<br>Designator | APCH<br>LGT type<br>LEN<br>INTST | THR LGT<br>colour<br>WBAR | VASIS<br>(MEHT) PAPI                   | TDZ,<br>LGT<br>LEN | RWY<br>Centre<br>Line<br>LGT<br>Length,<br>spacing,<br>colour,<br>INTST | RWY edge LGT<br>LEN, spacing,<br>colour,<br>INTST     | RWY<br>End<br>LGT<br>colour<br>WBAR | SWY<br>LGT<br>LEN<br>(m)<br>colour | Remarks |
|-------------------|----------------------------------|---------------------------|----------------------------------------|--------------------|-------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------|------------------------------------|---------|
| 1                 | 2                                | 3                         | 4                                      | 5                  | 6                                                                       | 7                                                     | 8                                   | 9                                  | 10      |
| 26                | SALS<br>420 m<br>LIH             | Green                     | PAPI<br>Left/Right<br>3°<br>(61.09 ft) | Nil                | Nil                                                                     | 3050 m,60 m<br>White;<br>FM2450-3050 m<br>Yellow:LIH  | Red                                 | 60                                 | Nil     |
| 08                | Nil                              | Green                     | PAPI<br>Left/Right<br>3°<br>(64.06 ft) | Nil                | Nil                                                                     | 3050 m,60 m<br>White;<br>FM 2450-3050 m<br>Yellow:LIH | Red                                 | 60                                 | Nil     |

**VTSS 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. / IBN : Nil H24                                                                                                                                                                                                         |
| 2 | LDI location and LGT<br>Anemometer location and LGT.      | WDI : 3 Wind Cones, illuminated at<br>1) 1,196 m. from the right side of THR RWY 26<br>2) 450 m. from THR RWY 26 : offset to the left side from RCL 105 m., and<br>3) 450 m. from THR RWY 08 : offset to the left side from RCL 65 m.<br><br>Anemometer : see AD Chart. |
| 3 | TWY edge and centre line lighting                         | EDGE: All TWY<br>Centreline: Nil                                                                                                                                                                                                                                        |
| 4 | Secondary power supply/switch-over time                   | RWY 08/26 supplied by stand by generator switch over time 15 SEC                                                                                                                                                                                                        |
| 5 | Remarks                                                   | -                                                                                                                                                                                                                                                                       |

**VTSS AD 2.16 HELICOPTER LANDING AREA**

|   |                                                           |                                           |
|---|-----------------------------------------------------------|-------------------------------------------|
| 1 | Coordinates TLOF or THR of FATO                           | -                                         |
| 2 | TLOF and/or FATO elevation M/FT                           | -                                         |
| 3 | TLOF and FATO area dimensions, surface, strength, marking | -                                         |
| 4 | True and MAG BRG of FATO                                  | -                                         |
| 5 | Declared distance available                               | -                                         |
| 6 | APP and FATO lighting                                     | -                                         |
| 7 | Remarks                                                   | Adjacent to apron: near Terminal Building |

## VTSS AD 2.17 ATS AIRSPACE

|   |                                    |                                                     |
|---|------------------------------------|-----------------------------------------------------|
| 1 | Designation and lateral limits     | A circle of 5 NM radius centred on 0655.9N 10023.5E |
| 2 | Vertical limits                    | 3000 ft/AGL                                         |
| 3 | Airspace classification            | C                                                   |
| 4 | ATS unit call sign<br>Language (S) | Hat Yai Tower<br>En, Thai                           |
| 5 | Transition altitude                | 11000 ft                                            |
| 6 | Remarks                            | Nil                                                 |

## VTSS AD 2.18 ATS COMMUNICATION FACILITIES

| Service designation | Call sign            | Frequency                                          | Hours of operation | Remarks          |
|---------------------|----------------------|----------------------------------------------------|--------------------|------------------|
| 1                   | 2                    | 3                                                  | 4                  | 5                |
| APP                 | Hat Yai Approach     | 126.7 MHz<br>301.5 MHz                             | H24                | *Emergency Freq. |
| TWR                 | Hat Yai Tower        | 118.1 MHz<br>121.5* MHz<br>275.8 MHz<br>243.0* MHz |                    |                  |
| GND                 | Ground Control       | 121.9 MHz<br>257.8 MHz                             |                    |                  |
| ATIS                | Hat Yai Intl.Airport | 128.8 MHz                                          |                    |                  |

VTSS AD 2.19 RADIO NAVIGATION AND LANDING AIDS

| Type of aid, CAT of ILS/MLS(For VOR/ILS/MLS, give VAR) | ID   | Frequency            | Hours of operation | Site of transmitting antenna coordinates | Elevation of DME transmitting antenna | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------|------|----------------------|--------------------|------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                                      | 2    | 3                    | 4                  | 5                                        | 6                                     | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| NDB                                                    | HY   | 328 kHz              | H24                | 065611.00N<br>1002320.07E<br>(WGS-84)    | 37.3 m                                | DVOR/DME restriction, due to mountainous terrain surround DVOR/DME station coverage check does not provide adequate signal to 40 NM at the required altitude in various areas as following :<br>- RDL 171-240 DEG at 10 NM ALT should not below 5,000 ft.<br>- RDL 131-170 DEG at 20 NM ALT should not below 4,000 ft.<br>- RDL 031-130 DEG at 40 NM ALT should not below 5,000 ft.<br>- RDL 241-270 DEG at 40 NM ALT should not below 7,000 ft.<br>- RDL 271-300 DEG at 40 NM ALT should not below 10,000 ft.<br>- RDL 301-330 DEG at 40 NM ALT should not below 6,000 ft.<br>- RDL 331-030 DEG at 40 NM ALT should not below 3,000 ft. |
| DVOR/DME                                               | HTY  | 115.3 MHz<br>CH100X  |                    | 065602.75N<br>1002316.47E<br>(WGS-84)    |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ILS CAT I<br>LOC/DME<br>RWY26                          | IHTY | 109.9 MHz<br>CH 36X  |                    | 065549.07N<br>1002230.14E<br>(WGS-84)    | 37.7 m                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| GP                                                     |      | 333.8 MHz            |                    | 065558.83N<br>1002419.24E<br>(WGS-84)    |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| TACAN                                                  | HTY  | 115.70 MHz<br>CH104X | 2300-1100 daily    | 065541N<br>1002344E                      |                                       | HR service 30 Min PN to ATC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**SECONDARY/OTHER INTERNATIONAL AERODROME**  
**AND NATIONAL AERODROMES**

|       |                                |      |
|-------|--------------------------------|------|
|       | BURI RAM                       | VTUO |
|       | CHUMPHON                       | VTSE |
| ————→ | KHON KAEN                      | VTUK |
|       | KRABI                          | VTSG |
|       | LAM PANG                       | VTCL |
|       | LOEI                           | VTUL |
|       | LOP BURI / Khok Kathiam        | VTBL |
|       | MAE HONG SON                   | VTCH |
|       | MAE HONG SON / Pai             | VTCT |
| ————→ | NAKHON PATHOM / Kamphaeng Saen | VTBK |
|       | NAKHON PHANOM                  | VTUW |
|       | NAKHON RATCHASIMA              | VTUQ |
|       | NAKHON RATCHASIMA / Khorat     | VTUN |
|       | NAKHON SAWAN                   | VTPN |
| ————→ | NAKHON SAWAN / Takhli          | VTPI |
|       | NAKHON SI THAMMARAT            | VTST |
|       | NAKHON SI THAMMARAT / Cha-lan  | VTST |
|       | NAN / Nan Nakhon               | VTCT |
| ————→ | NARATHIWAT                     | VTST |
|       | PATTANI                        | VTST |
|       | PHETCHABUN                     | VTPB |
| ————→ | PHITSANULOK                    | VTPP |
|       | PHRAE                          | VTCT |
|       | PRACHUAP KHIRI KHAN / Prachuap | VTBP |
|       | PRACHUAP KHIRI KHAN / Hua Hin  | VTPH |
|       | RANONG                         | VTST |
|       | ROI ET                         | VTUV |
| ————→ | SAKON NAKHON                   | VTUI |
|       | SONGKHLA                       | VTST |
|       | SUKHOTHAI                      | VTPH |
|       | SURAT THANI                    | VTST |
|       | SURAT THANI / Samui            | VTST |
|       | SURIN                          | VTUJ |
|       | TAK                            | VTPH |
|       | TAK / Mae Sot                  | VTPM |
|       | TRANG                          | VTST |
|       | TRAT                           | VTBO |
| ————→ | UBON RATCHATHANI / Ubon        | VTUU |
|       | UDON THANI / Udon              | VTUD |

## VTCL AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

|   |                                                           |                                                                                    |
|---|-----------------------------------------------------------|------------------------------------------------------------------------------------|
| 1 | ABN/IBN location, characteristics and hours of operation. | ABN: At ATC Tower (181634.90N 0993020.76E),<br>FLG W G EV 7 SEC.                   |
| 2 | LDI location and LGT<br>Anemometer location and LGT.      | -                                                                                  |
| 3 | TWY edge and centre line lighting                         | EDGE: All taxiways                                                                 |
| 4 | Secondary power supply/switch-over time                   | Secondary power supply to all lighting at the airport.<br>Switch-over time 15 SEC. |
| 5 | Remarks                                                   | Nil                                                                                |

## VTCL AD 2.16 HELICOPTER LANDING AREA

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

## VTCL AD 2.17 ATS AIRSPACE

|   |                                    |                                                                                      |
|---|------------------------------------|--------------------------------------------------------------------------------------|
| 1 | Designation and lateral limits     | A circle of 5 NM radius centred on LPN DVOR/DME<br>(181635.87N 0993008.40E (WGS-84)) |
| 2 | Vertical limits                    | 2 000 ft/AGL                                                                         |
| 3 | Airspace classification            | D                                                                                    |
| 4 | ATS unit call sign<br>Language (S) | Lampang Tower<br>En, Thai                                                            |
| 5 | Transition altitude                | 11 000 ft                                                                            |
| 6 | Remarks                            | Nil                                                                                  |

## VTCL AD 2.18 ATS COMMUNICATION FACILITIES

| Service designation | Call sign        | Frequency                              | Hours of operation | Remarks                                                    |
|---------------------|------------------|----------------------------------------|--------------------|------------------------------------------------------------|
| 1                   | 2                | 3                                      | 4                  | 5                                                          |
| APP                 | Lampang Approach | **119.3 MHz                            | 2300-1100          | *Emergency Freq.<br><br>**Other this period 3 HR PN to ATC |
| TWR                 | Lampang Tower    | *121.5 MHz<br>**122.3 MHz<br>236.6 MHz |                    |                                                            |
| ATIS                |                  | 395 kHz                                |                    |                                                            |

VTCL AD 2.19 RADIO NAVIGATION AND LANDING AIDS

| Type of aid,<br>MAG VAR<br>CAT of ILS/<br>MLS(For<br>VOR/ILS/<br>MLS, give<br>declination) | ID    | Frequency          | Hours<br>of<br>operation | Site of<br>transmitting<br>antenna<br>coordinates | Elevation<br>of DME<br>transmitting<br>antenna | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------|-------|--------------------|--------------------------|---------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                                                                          | 2     | 3                  | 4                        | 5                                                 | 6                                              | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| NDB                                                                                        | LP    | 395 kHz            | H24                      | 181640.88N<br>0993026.88E<br>(WGS-84)             | 782.58 ft                                      | DVOR/DME Restriction, due to<br>Terrain surround DVOR/DME station<br>coverage check does not provide<br>adequate signal to 40 NM at required<br>altitudes in various areas;<br>-RDL 351-070 beyond 40 NM should<br>not below 6 000 ft.<br>-RDL 071-130 beyond 30 NM should<br>not below 6 000 ft.<br>-RDL 131-320 beyond 40 NM should<br>not below 6 000 ft<br>-RDL 321-350 beyond 30 NM should<br>not below 6 000 ft<br>-Unusable on RDL 360 DIST<br>10.10-11.00 DME at altitude<br>2300 ft due to roughness and<br>Scalloping out of tolerance |
| DVOR/DME                                                                                   | LPN   | 114.7 MHz<br>CH94X |                          | 181635.87N<br>0993008.40E<br>(WGS-84)             |                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| LOC RWY 36                                                                                 | I-LPN | 109.7 MHz          | H24                      | 181651.63N<br>0993011.99E                         |                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| DME                                                                                        |       | CH 34X<br>(109.7)  |                          | 181651.86N<br>0993014.43E                         |                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

**VTSK AD 2. AERODROMES****VTSK AD 2.1 AERODROME LOCATION INDICATOR AND NAME****VTSK - PATTANI / PATTANI AIRPORT****VTSK AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

|   |                                                            |                                                                                                                                                                                     |
|---|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | ARP coordinates and site at AD                             | 064708.55N 1010913.09E                                                                                                                                                              |
| 2 | Direction and distance from (city)                         | 16 km S, from city                                                                                                                                                                  |
| 3 | Elevation/Reference temperature                            | 8 ft /35°C                                                                                                                                                                          |
| 4 | MAG VAR/Annual change                                      | 0°16' W (2010) / 1'W                                                                                                                                                                |
| 5 | AD Administration, address, telephone, telefax, telex, AFS | Air Task Force 9, Royal Thai Air Force<br>Pattani Airport<br>Amphoe Nongjig, Pattani Province 94170 Thailand.<br>TEL. 0 7343 1190, 0 7343 7023<br>FAX. 0 7343 1195<br>AFS: VTSKYDYX |
| 6 | Types of traffic permitted (IFR/VFR)                       | IFR/VFR                                                                                                                                                                             |
| 7 | Remarks                                                    | Operator : Department of Civil Aviation                                                                                                                                             |

**VTSK AD 2.3 OPERATIONAL HOURS**

|   |                            |                                                          |
|---|----------------------------|----------------------------------------------------------|
| 1 | AD Administration          | HJ                                                       |
| 2 | Customs and immigration    | On request                                               |
| 3 | Health and sanitation      | On request                                               |
| 4 | AIS Briefing Office        | HJ                                                       |
| 5 | ATS Reporting Office (ARO) | -                                                        |
| 6 | MET Briefing Office        | -                                                        |
| 7 | ATS                        | 2300 -1100, outside this period 1 HR PN to Pattani Tower |

**VTSK AD 2.4 HANDLING SERVICES AND FACILITIES**

|   |                                         |     |
|---|-----------------------------------------|-----|
| 1 | Cargo-handling facilities               | Nil |
| 2 | Fuel/oil types                          | Nil |
| 3 | Fuelling facilities/capacity            | Nil |
| 4 | De-icing facilities                     | Nil |
| 5 | Hangar space for visiting aircraft      | Nil |
| 6 | Repair facilities for visiting aircraft | Nil |
| 7 | Remarks                                 | Nil |

**VTSK AD 2.5 PASSENGER FACILITIES**

|   |                      |             |
|---|----------------------|-------------|
| 1 | Hotels               | in the city |
| 2 | Restaurants          | in the city |
| 3 | Transportation       | Taxi        |
| 4 | Bank and Post Office | Nil         |
| 5 | Remarks              | Nil         |

**VTSK AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

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

**VTSK AD 2.7 SEASONAL AVAILABILITY-CLEARING**

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

**VTSK AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA**

|   |                                     |                                                                           |
|---|-------------------------------------|---------------------------------------------------------------------------|
| 1 | Apron surface and strength          | Surface : Asphaltic Concrete<br>Strength : PCN 27/F/A/Y/T                 |
| 2 | Taxiway width, surface and strength | Width : 20 m<br>Surface : Asphaltic Concrete<br>Strength : PCN 27/F/A/Y/T |
| 3 | ACL location and elevation          | Nil                                                                       |
| 4 | VOR/INS checkpoints                 | Nil                                                                       |
| 5 | Remarks                             | Nil                                                                       |

**VTSK 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 system of aircraft stands | -                                  |
| 2 | RWY and TWY marking and LGT                                                                          | RWY and TWY : Markings and lighted |
| 3 | Stop bars                                                                                            | Nil                                |
| 4 | Remarks                                                                                              | Nil                                |

**VTSK AD 2.10 AERODROME OBSTACLES**

| In approach/TKOF areas       |                                                                  |                     | In circling area at AD                     |             | Remarks |
|------------------------------|------------------------------------------------------------------|---------------------|--------------------------------------------|-------------|---------|
| 1                            |                                                                  |                     | 2                                          |             | 3       |
| RWY/Area affected            | Obstacle type<br>Elevation<br>Markings/LGT                       | Coordinates         | Obstacle type<br>Elevation<br>Markings/LGT | Coordinates | -       |
| a                            | b                                                                | c                   | a                                          | b           |         |
| -                            | Radio mast<br>HGT 30 m<br>painted red/<br>white LGTD on top.     | 073500N<br>993700E  | -                                          | -           |         |
| Final RWY 08<br>(Right side) | Cell phone<br>Antenna HGT<br>148 ft AGL,<br>Dist 1,300 m to THR. | 064700N<br>1010810E |                                            |             |         |

## VTBP AD 2. AERODROMES

## VTBP AD 2.1 AERODROME LOCATION INDICATOR AND NAME

## VTBP – PRACHUAP KHIRIKHAN/PRACHUAP AIRPORT

## VTBP AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

|   |                                                            |                                                                                                                                    |
|---|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 1 | ARP coordinates and site at AD                             | Lat 114718.3045N Long 0994816.6455E                                                                                                |
| 2 | Direction and distance from (city)                         | 3 KM SE of Prachuap Khirikhan Province                                                                                             |
| 3 | Elevation/Reference temperature                            | 16.847 FT /25.5 °C                                                                                                                 |
| 4 | MAG VAR/Annual change                                      | Nil                                                                                                                                |
| 5 | AD Administration, address, telephone, telefax, telex, AFS | Wing 5, Prachuap Air Force Base<br>Prachuap Khirikhan Province<br>Tel: 0-3260-3919<br>Fax: 0-2534-6000 Ext. 60550<br>AFS: VTBPYXYX |
| 6 | Types of traffic permitted (IFR/VFR)                       | VFR                                                                                                                                |
| 7 | Remarks                                                    | Operator : Royal Thai Air Force                                                                                                    |

## VTBP AD 2.3 OPERATIONAL HOURS

|    |                            |                                                                                                         |
|----|----------------------------|---------------------------------------------------------------------------------------------------------|
| 1  | AD Administration          | 2300-1100 every day                                                                                     |
| 2  | Customs and immigration    | Nil                                                                                                     |
| 3  | Health and sanitation      | Nil                                                                                                     |
| 4  | AIS Briefing Office        | 0100-0900 every day                                                                                     |
| 5  | ATS Reporting Office (ARO) | Nil                                                                                                     |
| 6  | MET Briefing Office        | 2300-1100 every day                                                                                     |
| 7  | ATS                        | 2300-1100 every day                                                                                     |
| 8  | Fuelling                   | 0100-0900 MON-FRI                                                                                       |
| 9  | Handling                   | 0100-0900 MON-FRI                                                                                       |
| 10 | Security                   | H24                                                                                                     |
| 11 | De-icing                   | Nil                                                                                                     |
| 12 | Remarks                    | Outside these HR services are available O/R.<br>Request to be submitted to TWR not later than 0900 UTC. |

## VTBP AD 2.4 HANDLING SERVICES AND FACILITIES

|   |                                         |                                                                                                                          |
|---|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 1 | Cargo-handling facilities               | Nil                                                                                                                      |
| 2 | Fuel/oil types                          | JP8, Octane 100/300, PTT, SAE40 Aero Shell Turbine 500, Hydronic spec Mil-H-5606                                         |
| 3 | Fuelling facilities/capacity            | 2 Trucks 5 500 litres, 75 litres/MIN.<br>1 Truck 5 500 litres, 75 litres/MIN (under wing),<br>500 litres/MIN (over wing) |
| 4 | De-icing facilities                     | Nil                                                                                                                      |
| 5 | Hangar space for visiting aircraft      | Nil                                                                                                                      |
| 6 | Repair facilities for visiting aircraft | Nil                                                                                                                      |
| 7 | Remarks                                 | Nil                                                                                                                      |

**VTBP AD 2.5 PASSENGER FACILITIES**

|   |                      |                                              |
|---|----------------------|----------------------------------------------|
| 1 | Hotels               | Near the AD and in the city                  |
| 2 | Restaurants          | In the city                                  |
| 3 | Transportation       | Car hire from and to the city                |
| 4 | Medical facilities   | First aid at Aerodrome. Hospital in the city |
| 5 | Bank and Post Office | In the city                                  |
| 6 | Tourist Office       | Office in the city                           |
| 7 | Remarks              | Nil                                          |

**VTBP AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

|   |                                             |                                                                           |
|---|---------------------------------------------|---------------------------------------------------------------------------|
| 1 | AD category for fire fighting               | Within ATS HR; 2 fire fighting trucks with 4 000 L Of water 500 L of form |
| 2 | Rescue equipment                            | Yes, 1 boat of 15 persons                                                 |
| 3 | Capability for removal of disabled aircraft | Nil                                                                       |
| 4 | Remarks                                     | Nil                                                                       |

**VTBP AD 2.7 SEASONAL AVAILABILITY-CLEARING**

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

**VTBP AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA**

|   |                                     |                                                                                                                    |   |
|---|-------------------------------------|--------------------------------------------------------------------------------------------------------------------|---|
| 1 | Apron surface and strength          | Surface : Asphalt<br>Strength : PCN 45/F/B/X/T                                                                     | ← |
| 2 | Taxiway width, surface and strength | Width : TWY A 50 ft, TWY B 30 ft<br>Surface : Asphalt<br>Strength : PCN 43/F/A/X/T (TWY A), PCN 45/F/B/X/T (TWY B) | ← |
| 3 | ACL location and elevation          | Location : At apron<br>Elevation: 16.847 ft (5.135 m)                                                              | ← |
| 4 | VOR/INS checkpoints                 | Nil                                                                                                                |   |
| 5 | Remarks                             | Nil                                                                                                                |   |

VTBP 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 | Taxiing guidance signs at all intersections with TWY and RWY and at all holding position.<br>Parking follow the signalman.                                                                                                    |
| 2 | RWY and TWY markings and LGT                                                                                  | RWY : Designation, THR, centre line and distance<br>Markers lighted. Runway edge light provided<br>For RWY 08/26 only.<br>TWY : Taxiway edge light, centre line and holding positions<br>at all TWY/RWY intersections marked. |
| 3 | Stop bars                                                                                                     | Nil                                                                                                                                                                                                                           |
| 4 | Remarks                                                                                                       | Nil                                                                                                                                                                                                                           |

## VTBP AD 2.10 AERODROME OBSTACLES

| In approach/TKOF areas       |                                                                                                   |                                                                           | In circling areas and at AD                                                                                                |                                                                                                  | Remarks |
|------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------|
| 1                            |                                                                                                   |                                                                           | 2                                                                                                                          |                                                                                                  | 3       |
| RWY/Area affected            | Obstacle type<br>Elevation<br>Markings/LGT                                                        | Coordinates                                                               | Obstacle type<br>Elevation<br>Markings/LGT                                                                                 | Coordinates                                                                                      |         |
| a                            | b                                                                                                 | c                                                                         | a                                                                                                                          | b                                                                                                |         |
| 08/TKOF<br>26/APP            | Mountain<br>273 m/896 ft<br>Nil<br>Island<br>60 m/197 ft<br>Nil<br>Island<br>100 m/328 ft<br>LGTD | 114707N<br>0994859E<br><br>114729N<br>0994859E<br><br>114739N<br>0994922E | Mountain<br>273 m/896 ft<br>Nil<br>Island<br>60 m/197 ft<br>Nil<br>Island<br>100 m/328 ft<br>Island<br>228 m/747 ft<br>Nil | 114707N<br>0994859E<br><br>114729N<br>0994859E<br><br>114730N<br>0994922E<br>114730N<br>0994753E | -       |
| 08/APP<br>18/TKOF<br>36/APOP | As 08/TKOF<br>Mountain<br>185 m/607 ft<br>Nil<br>Island<br>60 m/197 ft<br>Nil                     | 114508N<br>0994746E<br><br>114601N<br>0994836E                            |                                                                                                                            |                                                                                                  |         |
| 18/APP<br>36/TKOF            | Mountain<br>107 m/350 ft<br>LGTD<br>Mast<br>322 m/1057 ft                                         | 114856N<br>0994830E<br><br>115420N<br>0994804E                            | Mountain<br>185 m/607 ft<br>Nil<br>Mast<br>108 m/356 ft<br>LGTD                                                            | 114508N<br>0994746E<br><br>114759N<br>0994730E                                                   |         |
| Final APP<br>RWY08           | Radio Mast<br>HGT 51 m/167 ft<br>Marked and<br>LGTD                                               | 114648N<br>0994623E                                                       |                                                                                                                            |                                                                                                  |         |
|                              |                                                                                                   |                                                                           |                                                                                                                            |                                                                                                  |         |

## VTBP AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

|    |                                                                     |                                                                        |   |
|----|---------------------------------------------------------------------|------------------------------------------------------------------------|---|
| 1  | Associated MET Office                                               | Met Section Wing 5                                                     | ← |
| 2  | Hours of service<br>MET Office outside hours                        | HJ to be requested                                                     |   |
| 3  | Office responsible for TAF Preparation Periods of validity          | Met Section Wing 5<br>H24                                              | ← |
| 4  | Type of landing forecast<br>Interval of issuance                    | TEMPO                                                                  |   |
| 5  | Briefing/consultation provided                                      | Personal Consultation                                                  |   |
| 6  | Flight documentation<br>Language (s) used                           | Charts, plain language text.<br>Thai                                   |   |
| 7  | Charts and other information available for briefing or consultation | Synoptic chart, wind aloft chart, FATHAI<br>AD forecast, RADAR NETWORK |   |
| 8  | Supplementary equipment available for providing information         | Tel: 60530 or self-briefing at base operation                          | ← |
| 9  | ATS units provided with information                                 | Prachuap Khiri Khan TWR                                                |   |
| 10 | Additional information (Limitation of service, etc.)                | Nil                                                                    |   |

## VTBP AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

| Designations<br>RWY<br>NR | TRUE &<br>MAG BRG  | Dimensions<br>of RWY (M) | Strength (PCN)<br>and surface of<br>RWY and SWY | THR coordinates            | THR elevation and<br>highest elevation<br>of TDZ of precision<br>APP RWY |         |
|---------------------------|--------------------|--------------------------|-------------------------------------------------|----------------------------|--------------------------------------------------------------------------|---------|
| 1                         | 2                  | 3                        | 4                                               | 5                          | 6                                                                        |         |
| 08                        | 076 GEO<br>080 MAG | 2 000X40                 | 43/F/A/X/T<br>Asphalt                           |                            | THR 3 m/10 ft                                                            |         |
| 26                        | 256 GEO<br>260 MAG | 2 000X40                 | 43/F/A/X/T<br>Asphalt                           |                            | THR 3 m/10 ft                                                            |         |
| 18                        | 180 GEO<br>180 MAG | 1 050X40                 | 43/F/A/X/T<br>Asphalt<br>50x40                  |                            | THR 3 m/10 ft                                                            |         |
| 36                        | 360 GEO<br>360 MAG | 1 050X40                 | 43/F/A/X/T<br>Asphalt                           |                            | THR 3 m/10 ft                                                            |         |
| Slope of<br>REW-SWY       |                    | SWY<br>dimensions<br>(m) | CWY<br>dimension<br>(m)                         | Strip<br>dimensions<br>(m) | OFZ                                                                      | Remarks |
| 7                         |                    | 8                        | 9                                               | 10                         | 11                                                                       | 12      |
| -                         |                    | -                        | -                                               | -                          | -                                                                        | Nil     |

## VTBP AD 2.13 DECLARED DISTANCES

| RWY Designator | TORA (m) | TODA (m) | ASDA (m) | LDA (m) | Remarks |
|----------------|----------|----------|----------|---------|---------|
| 1              | 2        | 3        | 4        | 5       | 6       |
| 08             | 2000     | 2000     | 2000     | 2000    | Nil     |
| 26             | 2000     | 2000     | 2000     | 2000    | Nil     |
| 18             | 1050     | 1050     | 1050     | 1050    | Nil     |
| 36             | 1050     | 1050     | 1050     | 1050    | Nil     |

## VTBP 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      |
| 08             | -                       | Green               | PAPI Left/3 Right/3 White, LIH | -           | -                                                  | 2000 m 50 m                            | RED                     | -                      | NIL     |
| 26             | -                       | Green               | PAPI Left/3 Right/5 White, LIH | -           | -                                                  | 2100 m 50 m                            | RED                     | -                      | NIL     |

## VTBP AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

|   |                                                           |                                                                                                |
|---|-----------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 1 | ABN/IBN location, characteristics and hours of operation. | ABN: At tower building                                                                         |
| 2 | LDI location and LGT Anemometer location and LGT.         | Nil                                                                                            |
| 3 | TWY edge and centre line lighting                         | EDGE: All TWY A,B Centre line: Nil                                                             |
| 4 | Secondary power supply/switch-over time                   | Secondary power supply :Limited to RDO/COM only<br>Switching-over time : Manual with in 5 MIN. |
| 5 | Remarks                                                   | Nil                                                                                            |

**VTBP AD 2.16 HELICOPTER LANDING AREA**

|   |                                                           |                                       |
|---|-----------------------------------------------------------|---------------------------------------|
| 1 | Coordinates TLOF or THR of FATO                           | 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                                                   | Helicopter LDG/TKOF by using runways. |

**VTBP AD 2.17 ATS AIRSPACE**

|   |                                    |                                                                |
|---|------------------------------------|----------------------------------------------------------------|
| 1 | Designation and lateral limits     | A circle of 20 NM radius centred on 114718.3045N 0994816.6455E |
| 2 | Vertical limits                    | 6000 FT/AGL                                                    |
| 3 | Airspace classification            | D                                                              |
| 4 | ATS unit call sign<br>Language (S) | Prachuap Tower<br>En, Thai                                     |
| 5 | Transition altitude                | 11 000 ft                                                      |
| 6 | Remarks                            | Nil                                                            |

**VTBP AD 2.18 ATS COMMUNICATION FACILITIES**

| Service designation | Call sign    | Frequency                                                      | Hours of operation | Remarks             |
|---------------------|--------------|----------------------------------------------------------------|--------------------|---------------------|
| 1                   | 2            | 3                                                              | 4                  | 5                   |
| TWR                 | Prachuap TWR | 351.1MHz<br>135.9 MHz<br>236.6 MHz<br>*121.5 MHz<br>*243.0 MHz | 2300-1100          | Primary operation   |
| GND                 | Prachuap GND | 257.8 MHz<br>121.75 MHz                                        | 2300-1100          | Secondary operation |

## VTBP AD 2.19 RADIO NAVIGATION AND LANDING AIDS

| Type of aid, CAT of ILS/MLS(For VOR/ILS/MLS, give VAR) | ID  | Frequency | Hours of operation | Site of transmitting antenna coordinates | Elevation of DME transmitting antenna | Remarks |
|--------------------------------------------------------|-----|-----------|--------------------|------------------------------------------|---------------------------------------|---------|
| 1                                                      | 2   | 3         | 4                  | 5                                        | 6                                     | 7       |
| TACAN                                                  | PCK | CH84      | 2300-1100          | 114712.3851N<br>0994730.2153E            | 10 m                                  | Nil     |
| NDB                                                    | PCK | 320 KHz   |                    | 114729.8861N<br>0994800.0279E            |                                       |         |

**VTBP AD 2.20 LOCAL AERODROME REGULATIONS**

NIL

**VTBP AD 2.21 NOISE ABATEMENT PROCEDURES**

NIL

**VTBP AD 2.22 FLIGHT PROCEDURES**

NIL

**VTBP AD 2.23 ADDITIONAL INFORMATION**

NIL

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VTSB AD 2.24 CHARTS RELATED TO AN AERODROME

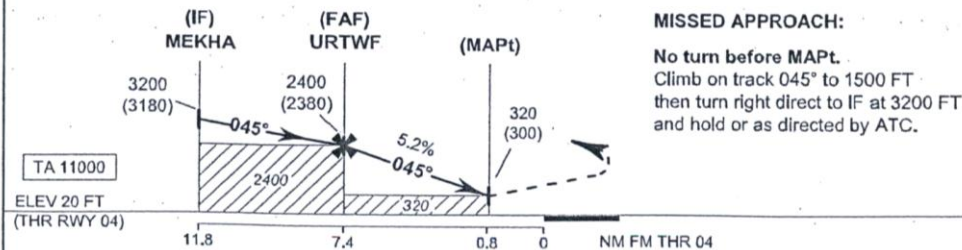
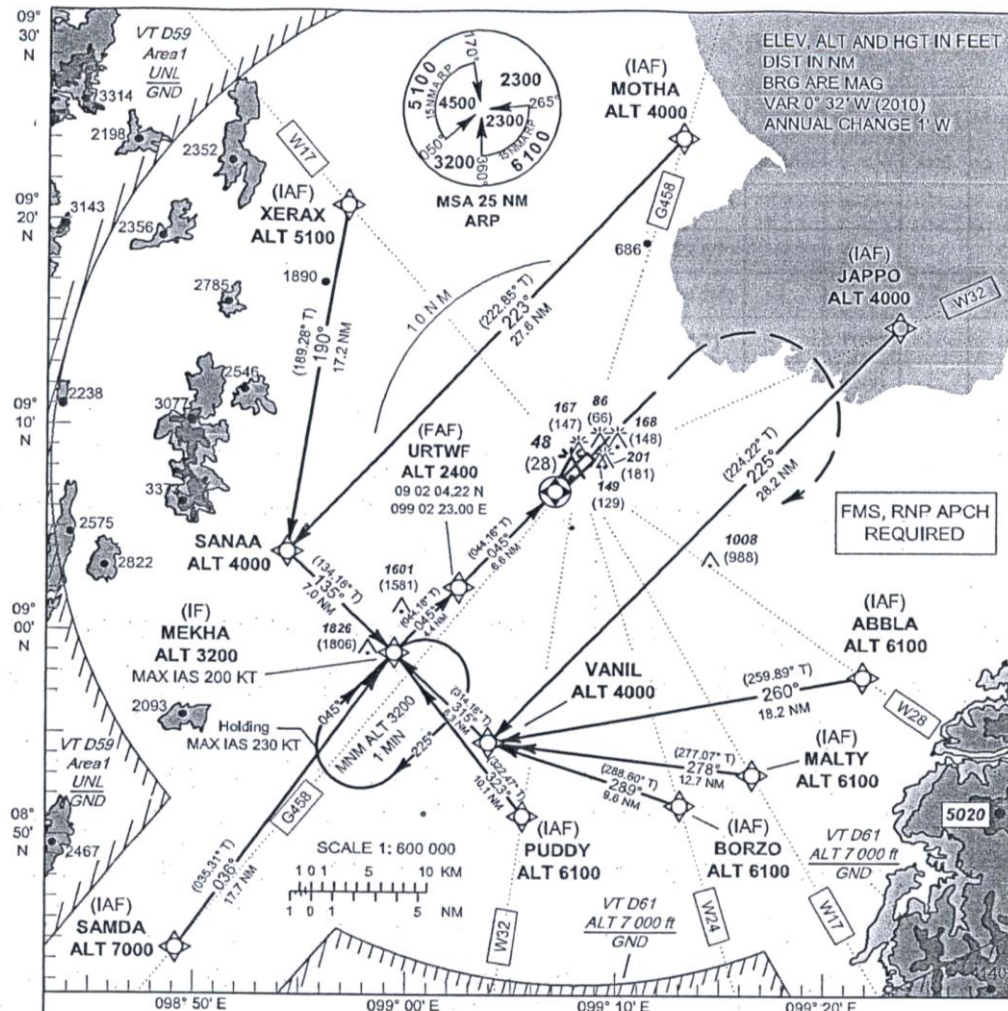
|                                                         | Page         |
|---------------------------------------------------------|--------------|
| Aerodrome Chart - ICAO                                  | VTSB AD 2-13 |
| Instrument Approach Chart – ICAO – RWY 22 – ILS or LOC  | VTSB AD 2-15 |
| Instrument Approach Chart – ICAO – RWY 04 – VOR         | VTSB AD 2-17 |
| Instrument Approach Chart – ICAO – RWY 22 – VOR         | VTSB AD 2-19 |
| Instrument Approach Chart – ICAO – RWY 04 – RNAV (GNSS) | VTSB AD 2-21 |
| Instrument Approach Chart – ICAO – RWY 22 – RNAV (GNSS) | VTSB AD 2-23 |

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INSTRUMENT  
APPROACH  
CHART - ICAOAERODROME ELEV 20 FT  
HEIGHTS RELATED TO  
AERODROME ELEVAPP : 123.35, 240.0  
TWR : 122.7, 274.5  
GND : 121.9, 275.8

SURAT THANI / Surat thani (VTSB)

RNAV (GNSS) RWY04



| OCA/H              | A                   | B | C | D | NM to THR 04      | FAF            | 7 NM           | 6 NM           | 5 NM           | 4 NM           | 3 NM           | 2 NM         | 1 NM         | 0.8 NM       |
|--------------------|---------------------|---|---|---|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|--------------|--------------|
| LNAV               | 320 (300)           |   |   |   | Altitude (Height) | 2400<br>(2380) | 2280<br>(2260) | 1965<br>(1945) | 1650<br>(1630) | 1335<br>(1315) | 1020<br>(1000) | 700<br>(680) | 385<br>(365) | 320<br>(300) |
| Circling (OCH AAL) | 600 (580) 760 (740) |   |   |   | Ground speed (GS) | knot           | 100            | 120            | 140            | 160            | 180            | 200          |              |              |
|                    |                     |   |   |   | Rate of descent   | (ft/min)       | 530            | 640            | 745            | 850            | 955            | 1060         |              |              |

Date: Aug 2013

## SURAT THANI / Surat thani (VTSB)

## RNAV (GNSS) RWY04

| Fix identifier       | WGS-84 Coordinates |                | Path       | Flyover | Course        | Turn      | Altitude | Speed | Magnetic  | Navigation  |
|----------------------|--------------------|----------------|------------|---------|---------------|-----------|----------|-------|-----------|-------------|
| (Waypoint name)      | Latitude           | Longitude      | descriptor |         | ° M (° T)     | direction |          | limit | variation | performance |
| XERAX (IAF)          | 09 20 50.61 N      | 098 57 00.66 E | IF         | -       | 190°(189.28°) | -         | 5100     | -     | 0.6       | RNP1        |
| MOTHA (IAF)          | 09 24 05.97 N      | 099 13 08.92 E | IF         | -       | 223°(222.85°) | -         | 4000     | -     | 0.6       | RNP1        |
| SANAA                | 09 03 47.96 N      | 098 54 12.62 E | TF         | -       | 135°(134.16°) | L         | 4000     | -     | 0.6       | RNP1        |
| SAMDA (IAF)          | 08 44 23.10 N      | 098 48 56.56 E | IF         | -       | 036°(035.31°) | -         | 7000     | -     | 0.6       | RNP1        |
| PUDDY (IAF)          | 08 50 52.88 N      | 099 05 28.86 E | IF         | -       | 323°(322.47°) | -         | 6100     | -     | 0.6       | RNP1        |
| JAPPO (IAF)          | 09 14 50.57 N      | 099 23 44.28 E | IF         | -       | 225°(224.22°) | -         | 4000     | -     | 0.6       | RNP1        |
| ABBLA (IAF)          | 08 57 43.61 N      | 099 21 59.40 E | IF         | -       | 260°(259.89°) | -         | 6100     | -     | 0.6       | RNP1        |
| MALTY (IAF)          | 08 52 55.79 N      | 099 16 36.11 E | IF         | -       | 278°(277.07°) | -         | 6100     | -     | 0.6       | RNP1        |
| BORZO (IAF)          | 08 51 24.95 N      | 099 13 03.59 E | IF         | -       | 289°(288.60°) | -         | 6100     | -     | 0.6       | RNP1        |
| VANIL                | 08 54 29.99 N      | 099 03 50.33 E | TF         | -       | 315°(314.18°) | R         | 4000     | -     | 0.6       | RNP1        |
| MEKHA (IF)           | 08 58 53.97 N      | 098 59 17.11 E | TF         | -       | 045°(044.16°) | L, R      | 3200     | 200   | 0.6       | RNP1        |
| URTWF (FAF)          | 09 02 04.22 N      | 099 02 23.00 E | TF         | -       | 045°(044.16°) | -         | 2400     | -     | 0.6       | RNP0.3      |
| MAPt 0.8 NM fm THR04 | 09 06 47.98 N      | 099 07 00.28 E | -          | Y       | -             | -         | 320      | -     | 0.6       | RNP0.3      |
| -                    | -                  | -              | CA         | -       | 045°(044.16°) | R         | 1500     | -     | 0.6       | RNP1        |
| MEKHA (IF)           | 08 58 53.97 N      | 098 59 17.11 E | DF         | -       | -             | -         | 3200     | 230   | 0.6       | RNP1        |
| MEKHA (IF)           | 08 58 53.97 N      | 098 59 17.11 E | HM         | -       | 045°(044.16°) | R         | 3200     | 230   | 0.6       | RNP1        |

RNAV (GNSS) RWY22

Date: Aug 2013

## SURAT THANI / Surat thani (VTSB)

## RNAV (GNSS) RWY22

| Fix identifier<br>(Waypoint name) | WGS-84 Coordinates |                | Path<br>descriptor | Flyover | Course<br>° M (° T) | Turn<br>direction | Altitude | Speed<br>limit | Magnetic<br>variation | Navigation<br>performance |
|-----------------------------------|--------------------|----------------|--------------------|---------|---------------------|-------------------|----------|----------------|-----------------------|---------------------------|
|                                   | Latitude           | Longitude      |                    |         |                     |                   |          |                |                       |                           |
| XERAX (IAF)                       | 09 20 50.61 N      | 098 57 00.66 E | IF                 | -       | 084°(083.74°)       | -                 | 5100     | -              | 0.6                   | RNP1                      |
| VISKY                             | 09 22 21.42 N      | 099 10 56.29 E | TF                 | -       | 135°(134.17°)       | R                 | 4000     | -              | 0.6                   | RNP1                      |
| MOTHA (IAF)                       | 09 24 05.97 N      | 099 13 08.92 E | IF                 | -       | 155°(154.08°)       | -                 | 4000     | -              | 0.6                   | RNP1                      |
| JAPPO (IAF)                       | 09 14 50.57 N      | 099 23 44.28 E | IF                 | -       | 286°(285.40°)       | -                 | 4000     | -              | 0.6                   | RNP1                      |
| SAMDA (IAF)                       | 08 44 23.10 N      | 098 48 56.56 E | IF                 | -       | 069°(068.43°)       | -                 | 7000     | -              | 0.6                   | RNP1                      |
| PUDDY (IAF)                       | 08 50 52.88 N      | 099 05 28.86 E | IF / TF            | -       | 040°(039.90°)       | -                 | 6100     | -              | 0.6                   | RNP1                      |
| BORZO (IAF)                       | 08 51 24.95 N      | 099 13 03.59 E | IF                 | -       | 026°(025.52°)       | -                 | 6100     | -              | 0.6                   | RNP1                      |
| MALTY (IAF)                       | 08 52 55.79 N      | 099 16 36.11 E | IF                 | -       | 019°(017.95°)       | -                 | 6100     | -              | 0.6                   | RNP1                      |
| ABBLA (IAF)                       | 08 57 43.61 N      | 099 21 59.40 E | IF                 | -       | 003°(002.34°)       | -                 | 6100     | -              | 0.6                   | RNP1                      |
| KEETA                             | 09 11 09.23 N      | 099 22 32.56 E | TF                 | -       | 315°(314.20°)       | L                 | 4000     | -              | 0.6                   | RNP1                      |
| AUDEY (IF)                        | 09 16 45.37 N      | 099 16 44.52 E | TF                 | -       | 225°(224.19°)       | L, R              | 3100     | 200            | 0.6                   | RNP1                      |
| URTEF (FAF)                       | 09 13 09.24 N      | 099 13 13.06 E | TF                 | -       | 225°(224.19°)       | -                 | 2100     | -              | 0.6                   | RNP0.3                    |
| MAPt 1.0 NM fm THR22              | 09 09 17.71 N      | 099 09 26.65 E | -                  | Y       | -                   | -                 | 400      | -              | 0.6                   | RNP0.3                    |
|                                   | -                  | -              | CA                 | -       | 225°(224.19°)       | L                 | 1500     | -              | 0.6                   | RNP1                      |
| AUDEY (IF)                        | 09 16 45.37 N      | 099 16 44.52 E | DF                 | -       | -                   | -                 | 3100     | 230            | 0.6                   | RNP1                      |
| AUDEY (IF)                        | 09 16 45.37 N      | 099 16 44.52 E | HM                 | -       | 225°(224.19°)       | R                 | 3100     | 230            | 0.6                   | RNP1                      |

Date: Aug 2013

## VTST AD 2.18 ATS COMMUNICATION FACILITIES

| Service designation | Call sign      | Frequency              | Hours of operation | Remarks |
|---------------------|----------------|------------------------|--------------------|---------|
| 1                   | 2              | 3                      | 4                  | 5       |
| APP                 | Trang Approach | 125.3 MHz              | 2330-1130          |         |
| TWR                 | Trang Tower    | 118.4 MHz<br>236.6 MHz | 2300-1100          |         |
| ATIS                |                | 134.5 MHz              |                    |         |

## VTST AD 2.19 RADIO NAVIGATION AND LANDING AIDS

| Type of aid,<br>MAG VAR<br>CAT of ILS/<br>MLS<br>(For VOR/<br>ILS/MLS,<br>give<br>declination) | ID   | Frequency           | Hours of operation | Site of transmitting antenna coordinates | Elevation of DME transmitting antenna | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------|------|---------------------|--------------------|------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                                                                              | 2    | 3                   | 4                  | 5                                        | 6                                     | 7                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| DVOR/DME                                                                                       | TRN  | 116.6 MHz<br>CH113X | H24                | 073032.17N<br>0993733.67E<br>(WGS-84)    |                                       | DVOR/DME restriction, due to mountainous terrain surround DVOR/DME station coverage check does not provide adequate signal at the required altitude in various areas as follows :<br>- RDL 081-130 DEG at 20 NM ALT should not below 6 000 FT.<br>- RDL 131-350 DEG at 40 NM ALT should not below 4 000 FT.<br>- RDL 351-030 DEG at 40 NM ALT should not below 6 000 FT.<br>- RDL 031-080 DEG at 40 NM ALT should not below 7 000 FT. |
| LOC RWY 08<br>ILS CAT I                                                                        | ITRN | 110.3 MHz           |                    | 073038.42N<br>993743.17E                 |                                       | LOC : Designated Operation Coverage 18 NM, ALT 6300 ft/ AMSL                                                                                                                                                                                                                                                                                                                                                                          |
| GP                                                                                             |      | 335.0 MHz           |                    | 073030.79N<br>993634.69E                 |                                       | GP : 3.50 DEG, RDH 58 FT                                                                                                                                                                                                                                                                                                                                                                                                              |
| DME                                                                                            |      | CH 40X<br>(110.3)   |                    | 073040.75N<br>993742.82E                 | 47.29 ft                              | DME : Paired with LOC FREQ.                                                                                                                                                                                                                                                                                                                                                                                                           |

**VTST AD 2.20 LOCAL AERODROME REGULATIONS**

**NIL**

**VTST AD 2.21 NOISE ABATEMENT PROCEDURES**

**NIL**

**VTST AD 2.22 FLIGHT PROCEDURES**

**NIL**

**VTST AD 2.23 ADDITIONAL INFORMATION**

**NIL**

VTST AD 2.24 CHARTS RELATED TO AN AERODROME

|                                                     | Page         |
|-----------------------------------------------------|--------------|
| Aerodrome Chart - ICAO                              | VTST AD 2-9  |
| Instrument Approach Chart - ICAO - RWY 08 – VOR/DME | VTST AD 2-11 |
| Instrument Approach Chart - ICAO - RWY 08 – ILS/DME | VTST AD 2-13 |
| Instrument Approach Chart - ICAO - RWY 08 – LLZ/DME | VTST AD 2-14 |



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## VTUD AD 2. AERODROMES

## VTUD AD 2.1 AERODROME LOCATION INDICATOR AND NAME

## VTUD- UDON THANI / UDON THANI AIRPORT

## VTUD AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

|   |                                                            |                                                                                                                                                                                               |
|---|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | ARP coordinates and site at AD                             | 172311.17N 1024717.69E                                                                                                                                                                        |
| 2 | Direction and distance from (city)                         | 3 km SW, from city                                                                                                                                                                            |
| 3 | Elevation/Reference temperature                            | 579 ft 26°C                                                                                                                                                                                   |
| 4 | MAG VAR/Annual change                                      | 0° 49'W (2015) / 2'W                                                                                                                                                                          |
| 5 | AD Administration, address, telephone, telefax, telex, AFS | Director of Udon Thani Airport<br>Udon Thani Airport<br>Tambon Makkhaeng, Amphoe Muang,<br>Udon Thani Province 41000<br>Thailand.<br>TEL. (042) 244426<br>FAX. (042) 246804<br>AFS : VTUDYDYX |
| 6 | Types of traffic permitted (IFR/VFR)                       | IFR/VFR                                                                                                                                                                                       |
| 7 | Remarks                                                    | Operator : Department of Civil Aviation                                                                                                                                                       |

## VTUD AD 2.3 OPERATIONAL HOURS

|   |                            |                                              |
|---|----------------------------|----------------------------------------------|
| 1 | AD Administration          | 2300-1500 *After this period 1 HR PN to ATC. |
| 2 | Customs and immigration    | On request                                   |
| 3 | Health and sanitation      | On request                                   |
| 4 | AIS Briefing Office        | 2300-1500                                    |
| 5 | ATS Reporting Office (ARO) | -                                            |
| 6 | MET Briefing Office        | -                                            |
| 7 | ATS                        | 2300-1430                                    |
| 8 | Fuelling                   | 2300-1400                                    |

## VTUD AD 2.4 HANDLING SERVICES AND FACILITIES

|   |                              |                                                                                                                |
|---|------------------------------|----------------------------------------------------------------------------------------------------------------|
| 1 | Cargo-handling facilities    | -                                                                                                              |
| 2 | Fuel/oil types               | Jet A-1, AVGAS                                                                                                 |
| 3 | Fuelling facilities/capacity | 3 JET A-1 Refueller @ 12,000 L<br>1 JET A-1 Refueller @ 22,000 L<br>1 AVGAS DC Motor Dispenser from drum 200 L |

**VTUD AD 2.5 PASSENGER FACILITIES**

|   |                |             |
|---|----------------|-------------|
| 1 | Hotels         | In the city |
| 2 | Restaurants    | In the city |
| 3 | Transportation | Limousine   |

**VTUD 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 | -          |
| 4 | Remarks                                     | Nil        |

**VTUD AD 2.7 SEASONAL AVAILABILITY-CLEARING**

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

**VTUD AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA**

|   |                                     |                                                             |
|---|-------------------------------------|-------------------------------------------------------------|
| 1 | Apron surface and strength          | Surface: Concrete<br>Strength: PCN 61/R/C/X/T               |
| 2 | Taxiway width, surface and strength | Width: 23 M<br>Surface: Concrete<br>Strength PCN 61/R/C/X/T |

**VTUD 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 | Marked                           |
| 2 | RWY and TWY markings and LGT                                                                                  | RWY and TWY : Marked and lighted |

**VTUD AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY**

|   |                                                           |                                                                                   |
|---|-----------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1 | ABN/IBN location, characteristics and hours of operation. | ABN: At Tower Building, FLG WG EV 4 SEC.<br>IBN : Nil                             |
| 2 | LDI location and LGT<br>Anemometer location and LGT.      | -                                                                                 |
| 3 | TWY edge and centre line lighting                         | EDGE: All TWY                                                                     |
| 4 | Secondary power supply/switch-over time                   | Secondary power supply to all lighting at the airport.<br>Switch-over time 13 SEC |
| 5 | Remarks                                                   | Nil                                                                               |

**VTUD AD 2.16 HELICOPTER LANDING AREA**

|   |                                                           |     |
|---|-----------------------------------------------------------|-----|
| 1 | Coordinates TLOF or THR of FATO                           | 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 |

**VTUD AD 2.17 ATS AIRSPACE**

|   |                                    |                                                                                 |
|---|------------------------------------|---------------------------------------------------------------------------------|
| 1 | Designation and lateral limits     | A circle of 5 NM radius centred on UDN DVOR/DME (172304.20N1024630.05E (WGS-84) |
| 2 | Vertical limits                    | 3 000 ft/AGL                                                                    |
| 3 | Airspace classification            | C                                                                               |
| 4 | ATS unit call sign<br>Language (S) | Udon Tower<br>En, Thai                                                          |
| 5 | Transition altitude                | 11 000 ft                                                                       |
| 6 | Remarks                            | Nil                                                                             |

**VTUD AD 2.18 ATS COMMUNICATION FACILITIES**

| Service designation | Call sign      | Frequency                                          | Hours of operation | Remarks                                    |
|---------------------|----------------|----------------------------------------------------|--------------------|--------------------------------------------|
| 1                   | 2              | 3                                                  | 4                  | 5                                          |
| APP                 | Udon Approach  | 126.2 MHz<br>265.9 MHz                             | 2300-1430          | *Emergency Freq.                           |
| TWR                 | Udon Tower     | *121.5 MHz<br>122.5 MHz<br>*243.0 MHz<br>355.4 MHz |                    | **Other than this period<br>1 HR PN to ATC |
| GND                 | Ground Control | 121.9 MHz<br>275.8 MHz                             |                    |                                            |
| ATIS                | Udon airport   | 128.8MHz                                           |                    | UD NDB out of services                     |

VTUD AD 2.19 RADIO NAVIGATION AND LANDING AIDS

| Type of aid,<br>MAG VAR<br>CAT of ILS/<br>MLS(For<br>VOR/ILS/<br>MLS, give<br>declination) | ID   | Frequency          | Hours<br>of<br>operation | Site of<br>transmitting<br>antenna<br>coordinates | Elevation<br>of DME<br>transmitting<br>antenna | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------|------|--------------------|--------------------------|---------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                                                                          | 2    | 3                  | 4                        | 5                                                 | 6                                              | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| NDB                                                                                        | UD   | 236 kHz            | H24                      | 172316.17N<br>1024611.49E                         |                                                | <p>DVOR/DME restriction, due to mountainous terrain surround DVOR/DME station coverage check does not provide adequate signal at required altitudes in various areas as follow;</p> <ol style="list-style-type: none"> <li>20 NM orbit (due to border limited) <ul style="list-style-type: none"> <li>- RDL331°-030° ALT should not below 2500 FT</li> </ul> </li> <li>40 NM orbit <ul style="list-style-type: none"> <li>- RDL031°-090° ALT should not below 3000 FT</li> <li>- RDL091°-190° ALT should not below 4000 FT</li> <li>- RDL191°-220° ALT should not below 5000 FT</li> <li>- RDL221°-330° ALT should not below 4000 FT</li> </ul> </li> <li>The airways were checked and result found satisfactory <ul style="list-style-type: none"> <li>- Airway W15 on RDL097° flown to 40.1 NM ALT 4000 FT</li> <li>- Airway W4 on RDL143° flown to 50.0 NM ALT 4000 FT</li> </ul> </li> </ol> <p>- 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 505 m from THR of runway 12.</p> <p>- Glide path 3°</p> <p>- DME co-located with Glide Slope power output 100 watts Uni-directional.</p> <p>Military Facilities<br/>PN 30 min to ATC</p> |
| DVOR/DME                                                                                   | UDN  | 114.3 MHz<br>CH90X |                          | 172304.20N<br>1024630.05N<br>(WGS-84)             |                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ILS CAT I<br>LOC RWY 30                                                                    | IUDN | 110.1 MHz          |                          | 172341.25N<br>1024616.25E<br>(WGS-84)             |                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| GP/DME                                                                                     |      | 334.4 MHz<br>CH38X |                          | 172256.70N<br>1024755.94E<br>(WGS-84)             |                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| TACAN                                                                                      | UDN  | CH86               | 0000-1300                | 1722.9N<br>10248.1E                               |                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |