STANDARD ARRIVAL CHART INSTRUMENT (STAR) - ICAO

TRANSITION ALT 14 000 TRANSITION LVL FL 140

GIMHAE APP 125.5 364.0 GIMHAE TWR 118.1 118.45 233.3 236.6 BUSAN/Gimhae Intl(RKPK) RWY 36L/R RNAV(GNSS) PEDLO 1

Note: Arrival under U.S. TERPS. GIMHAE ARP MSA 25 NM 5200 **KALEK transition**: From KALEK on track 271° to HAEUN, then track 254° to PEDLO. BUSAN (PSN) transition: From BUSAN(PSN) on track 147° to PEDLO. **ARRIVAL ROUTE DESCRIPTION** APARU transition: From APARU on track 190° to PEDLO. INVOK transition: From INVOK on track 330° to PEDLO. **APELA transition**: From APELA on track 351° to PEDLO. LANDING RWY 36 : Expect RNAV or ILS approach HAEUN GNSS and RADAR Required.
 DME/DME/IRU N/A. 1. RNAV 1 Required. NVOK NOTE: 1000 5 NM ⁷⁰⁰⁰ 351° AAX 230 Kt 092°-7 000 190° 1000 APARU 10° (0.5) PEDLO X VORTAC 114.0 28°59'58"E 35°07'21"N ■1 900 ff PSN :: RWY 36L/R **NOT TO SCALE** V, ALT IN FEET I IN NM S ARE MAG GIMHAE True Morth

BUSAN/Gimhae INTL(RKPK) RWY 36L/R [RNAV(GNSS) PEDLO 1

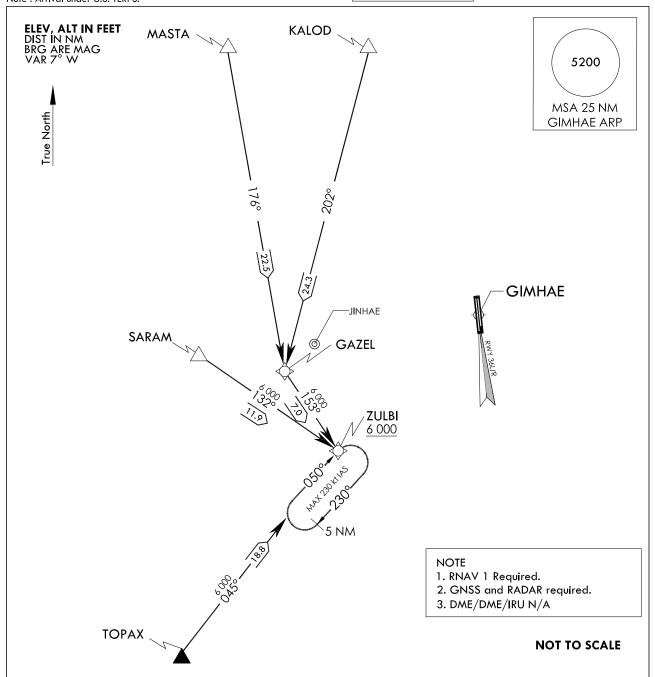
AERONAUTICAL DATA TABULATION

| ٠ ١ | - P. C. | NIAN FEDEO I - AFANO ITAIISIIIDII | | | | | | | | | | | | |
|------------------|---------------------------|--------------------------------------|--|---|-----------------------|-------------------|------------------|------------------|---------------|----------------------------|-------------|-----------------------------|-----------------------------|---------|
| Serial Number | Path Descriptor | Waypoint Identifier | FFy- | Course/Track °M(°T) | Distance (NM) | Turn direction | Altitude (ft) | Speed (kt) | | Coordinates | VPA/ TCH | Navigation specification | | Remarks |
| 100 | ¥ | APARU | 1 | 1 | ı | 1 | 1 | 1 | 35°24 | 35°24'42.1"N 129°09'32.1"E | 1 | RNAV 1 | | ı |
| 002 | ¥ | PEDLO | ı | 189.85(182.38) |) 25.30 | 1 | +7 000 | ı | 34°59 | 34°59'23.1"N 129°08'15.3"E | , | RNAV 1 | | |
| \ F | :DLO 1 - K | RNAV PEDLO 1 - KALEK Transition | Hion | | | | | | | | | | | |
| Serial Number | Path Descriptor | Waypoint Fly- Identifier over | Fly- over | Course/Track Distance °M(°T) (NM) | Distance (NM) | Turn direction | Altitude (ft) | Speed (kt) | | Coordinates | VPA/ TCH | Navigation specification | | Remarks |
| 100 | ¥ | KALEK | ı | 1 | ı | 1 | 1 | 1 | 35°12 | 35°12'32.0"N 129°53'05.0"E | , | RNAV 1 | | 1 |
| 002 | Ľ | HAEUN | | 271.01(263.54) | 10.00 | 1 | · | , | 35°11 | 35°11'23.8"N 129°40'57.4"E | ı | RNAV 1 | | ı |
| 003 | £ | PEDLO | 1 | 253.55(246.08) | 29.39 | 1 | +7 000 | | 34°59 | 34°59'23.1"N 129°08'15.3"E | , | RNAV 1 | | 1 |
| / PE | DLO 1 - IN | RNAV PEDLO 1 - INVOK Transition | iion | | | | | | | | | | | |
| Serial Number | Path Descriptor | Waypoint Identifier | Fly- over | Course/Track "M(°T) | Distance (NM) | Turn direction | Altitude (ft) | Speed (kt) | | Coordinates | VPA/ TCH | Navigation specification | | Remarks |
| 100 | ¥ | NVOK | | 1 | 1 | 1 | 1 | 1 | 34°47 | 34°47'19.0"N 129°19'23.0"E | , | RNAV 1 | | |
| 002 | Ľ | PEDLO | ı | 330.29(322.83) | 15.13 | 1 | +7 000 | ı | 34°59 | 34°59'23.1"N 129°08'15.3"E | | RNAV 1 | | ı |
| / PE | EDLO 1 - A | RNAV PEDLO 1 - APELA Transition | ijion | | | | | | | | | | | |
| Serial Number | Path Descriptor | Waypoint Identifier | Fly- over | Course/Track Distance . M(°T) (NM) | Distance (NM) | Turn direction | Altitude (ft) | Speed (kt) | | Coordinates | VPA/ TCH | Navigation specification | | Remarks |
| 100 | ŦĿ | APELA | ı | 1 | - | 1 | 1 | ı | 34°43 | 34°43'23.0"N 129°14'00.0"E | • | RNAV 1 | | 1 |
| 002 | Ŧ | PEDLO | ı | 351.01(343.54) | 16.66 | 1 | +7 000 | ı | 34°59 | 34°59'23.1"N 129°08'15.3"E | 1 | RNAV 1 | | |
| > F | EDLO 1 - B | RNAV PEDLO 1 - BUSAN(PSN) Transition | Tran | sition | | | | | | | | | | |
| Serial Number | Path Descriptor | Waypoint Identifier | Fly- | Course/Track "M("T) | Distance (NM) | Turn direction | Altitude (ft) | Speed (kt) | | Coordinates | VPA/ TCH | Navigation specification | | Remarks |
| 100 | # | BUSAN(PSN) | | 1 | ı | 1 | 1 | 1 | 35°07 | 35°07'21.5"N 128°59'58.5"E | | RNAV 1 | | 1 |
| 002 | <u></u> ⊭ | PEDLO | ı | 146.93(139.46) | 10.47 | ı | +7 000 | | 34°59 | 34°59'23.1"N 129°08'15.3"E | | RNAV 1 | | |
|] 💆 | HOLDING PROCEDURE | RE | | - | | | | | | | | | | |
| - Ref | Holding Identification | Path Descriptor | × de | Waypoint Fly- Course/T Identifier over °M(°T | ourse/Track °M(°T) | Distance (NM) | Turn | Altitude (ft) | Speed (kt) | Coordinates | | VPA/ TCH | Navigation specification | Remarks |
| | | | | | | | | | | | | | | |

STANDARD ARRIVAL CHART INSTRUMENT (STAR) - ICAO

TRANSITION ALT 14 000 TRANSITION LVL FL 140 GIMHAE APP 125.5 364.0 GIMHAE TWR 118.1 118.45 233.3 236.6 BUSAN/Gimhae Intl(RKPK) RWY 36L/R RNAV(GNSS) ZULBI 2

Note : Arrival under U.S. TERPS.



ARRIVAL ROUTE DESCRIPTION

ZULBI 2 ARRIVAL

RWY 36L/R: Expect RNAV or ILS approach.

MASTA transition: From MASTA on track 176° to GAZEL, then track 153° to ZULBI.

KALOD transition: From KALOD on track 202° to GAZEL, then track 153° to ZULBI.

SARAM transition: From SARAM on track 132° to ZULBI.

TOPAX transition: From TOPAX on track 045° to ZULBI.

BUSAN/Gimhae INTL(RKPK) RWY 36L/R RNAV(GNSS) ZULBI 2

AERONAUTICAL DATA TABULATION

Standard Instrument Arrival Procedure Coding Tables

| Remarks | ı | • | |
|---|----------------------------|----------------------------|----------------------------|
| VPA/ Navigation TCH specification | RNAV 1 | RNAV 1 | RNAV 1 |
| VPA/ TCH | ı | ı | Ī |
| Coordinates | 35°28'47.0"N 128°33'40.0"E | 35°06'40.3"N 128°39'00.0"E | 35°00'51.7"N 128°43'47.2"E |
| Speed (kt) | ı | | 1 |
| Altitude (ft) | ı | 1 | 000 9+ |
| Turn direction | ı | 1 | 1 |
| Distance (NM) | ı | 22.50 | 7.01 |
| $ \begin{array}{c cccc} Course/Track & Distance & Turn & Alritude & Speed \\ & & (NM) & (IVM) & (I$ | 1 | 176.25(168.79) 22.50 | 153.38(145.87) 7.01 |
| Fly- over | | | |
| Waypoint Identifier | MASTA | GAZEL | ZULBI |
| Serial Path Waypoint Fly- Cours Jumber Descriptor Identifier over | ¥ | Ŧ | Ŧ |
| Serial Number | 100 | 002 | 002 |

| RNAV Z | RNAV ZULBI 2 - KALOD Transition | LOD Transit | ion | | | | | | | | | |
|------------------|--|------------------------|--------------|------------------------|------------------|---|------------------|---------------|----------------------------|-------------|--------------------------------------|---------|
| Serial Number | Serial Path Waypoint Fly- Cours Number Descriptor Identifier over | Waypoint Identifier | Fly- over | Course/Track °M(°T) | Distance (NM) | rse/Track Distance Turn Altitude Speed 'M(°T) (INM) direction (ff) (kt) | Altitude (ft) | Speed (kt) | Coordinates | VPA/ TCH | VPA/ Navigation TCH specification | Remarks |
| 100 | ¥ | KALOD | | ı | ı | 1 | ı | ı | 35°30'12.1"N 128°46'26.5"E | ı | RNAV 1 | ı |
| 002 | TF. | GAZEL | | 202.04(194.57) 24.27 | 24.27 | | 1 | | 35°06'40.3"N 128°39'00.0"E | ı | RNAV 1 | |
| 002 | TF | ZULBI | | 153.38(145.87) 7.01 | 7.01 | • | +6 000 | • | 35°00'51.7"N 128°43'47.2"E | • | RNAV 1 | • |

| Serial Path Waypoint Fly- Course Number Descriptor Identifier over °M OO1 TF SARAM - | | | | | | | | | |
|---|----------------------|------------------|-------------------|------------------|---------------|----------------------------|-------------|--------------------------------------|---------|
| 1 | | Distance (NM) | Turn direction | Altitude (ft) | Speed (kt) | Coordinates | VPA/ TCH | VPA/ Navigation TCH specification | Remarks |
| | - | ı | 1 | - | - | 35°07'36.3"N 128°31'46.7"E | • | RNAV 1 | ı |
| 002 TF ZULBI - 13 | 131.74(124.27) 11.94 | 11.94 | | 000 9+ | | 35°00'51.7"N 128°43'47.2"E | ı | RNAV 1 | ı |

| - L 1 (m) | over "M(°. | | Descriptor Identifier Over "M(") |
|-----------|---|-----------|---|
| | Fly- Course, I rack Distan over "M(°T) (NM) (NM) (NM) (NM) (NM) (NM) (NM) (NM | fier over | Serial Path Waypoint Maypoint Fly-Course/I with Incompleted and Incom |

| HOLDING PROCEDU | JRE | | | | | | | | | | | |
|---------------------------|--------------------|------------------------|--------------|------------------------|------------------|-------------------|-------------------|---------------|----------------------------|-------------|-----------------------------|------|
| Holding Identification | Path Descriptor | Waypoint Identifier | Fly- over | Course/Track °M(°T) | Distance (NM) | Turn direction | Altitude (ft) | Speed (kt) | Coordinates | VPA/ TCH | Navigation specification | Rema |
| RNAV ZULBI 1 | ΨH | ZULBI | | 050(042.5) | 5 | w. | -10 000 +6 000 | -230 | 35°00'51.7"N 128°43'47.2"E | ı | ı | ı |

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|-----------------------|--------|---|------|----------|
|-----------------------|--------|---|------|----------|

RNAV ZULBI 2 - MASTA Transition

STANDARD ARRIVAL CHART INSTRUMENT (STAR) - ICAO

TRANSITION ALT 14 000 TRANSITION LVL FL 140 GIMHAE APP 125.5 364.0 GIMHAE TWR 118.1 118.45 233.3 236.6 BUSAN/Gimhae Intl(RKPK) RWY 18L/R RNAV(GNSS) GAYHA 2

Note: Arrival under U.S. TERPS MSA 25 NM GIMHAE ARP 2. GNSS and RADAR required. **APARU transition**: From APARU on track 248° to ARECO, then track 270° to cross GAYHA at or above 6 000 ft. **TOPAX transition** : From TOPAX on track 012° to SARAM, then track 049° to cross GAYHA at or above 6 000 ft. 5200 3. DME/DME/IRU N/A. 1. RNAV 1 Required. ELEV, ALT IN FEET DIST IN NM BRG ARE MAG VAR 7° W True Morth NOTE: MASTA transition: From MASTA on track 175° to cross GAYHA at or above 6 000 ft. KALOD transition: From KALOD on track 210° to cross GAYHA at or above 6 000 ft. then track 270° to cross GAYHA at or above 6 000 ft. **ARRIVAL ROUTE DESCRIPTION** BUSAN(PSN) transition: From BUSAN(PSN) on track 311° to ARECO, **VORTAC 114.0** 128°59'58"E 35°07'21"N ■1 900 ff **BUSAN** PSN :: LANDING RWY 18 : Expect RNAV approach. GIMHAE ARECO GAYHA ⊗ 6 000 -JINHAE ^ .060 1MIN 6 000 KALOD ح،00 000 9 6 000 - 175° °040 % 2.12 0150 MASTA SARAM TOPAX NOT TO SCALE BUSAN/Gimhae INTL(RKPK) RWY 18L/R RNAV(GNSS) GAYHA 2

AERONAUTICAL DATA TABULATION

| | \sqrt{\chi_{\chi}} | | | | (S | | | | (s | | | | | (s | | | | | (s | | | | | Remarks | |
|---------------------------------|----------------------------------|----------------------------|----------------------------|---------------------------------|--|----------------------------|----------------------------|---------------------------------|--|----------------------------|----------------------------|----------------------------|--------------------------------------|--|----------------------------|----------------------------|----------------------------|---------------------------------|--|----------------------------|----------------------------|----------------------------|-------------------|---|----------------------------|
| | Remarks | | ı | | Remarks | • | 1 | | Remarks | ı | ı | ı | | Remarks | ı | | 1 | | Remarks | | 1 | 1 | | Navigation specification | ı |
| | Navigation specification | RNAV 1 | RNAV 1 | | Navigation specification | RNAV 1 | RNAV 1 | | Navigation specification | RNAV 1 | RNAV 1 | RNAV 1 | | Navigation specification | RNAV 1 | RNAV 1 | RNAV 1 | | Navigation specification | RNAV 1 | RNAV 1 | RNAV 1 | | VPA/ I | , |
| | VPA/ TCH | | 1 | | VPA/ TCH | | , | | VPA/ TCH | 1 | 1 | ı | | VPA/ TCH | | 1 | 1 | | VPA/ TCH | 1 | | 1 | | | 7'54 A"F |
| | Coordinates | 35°28'47.0"N 128°33'40.0"E | 35°13'22.4"N 128°37'54.4"E | | Coordinates | 35°30'12.1"N 128°46'26.5"E | 35°13'22.4"N 128°37'54.4"E | | Coordinates | 35°24'42.1"N 129°09'32.1"E | 35°14'22.1"N 128°46'59.1"E | 35°13'22.4"N 128°37'54.4"E | | Coordinates | 35°07'21.5"N 128°59'58.5"E | 35°14'22.1"N 128°46'59.1"E | 35°13'22.4"N 128°37'54.4"E | | Coordinates | 34°45'55.3"N 128°29'51.7"E | 35°07'36.3"N 128°31'46.7"E | 35°13'22.4"N 128°37'54.4"E | | Coordinates | 35°13'22 4"N 128°37'54 4"F |
| | | 35°28' | 35°13 | | | 35°30' | 35°13' | | | 35°24' | 35°14 | 35°13 | | | 35°07 | 35°14" | 35°13 | | | 34°45' | 35°07 | 35°13' | | Speed (kt) | 0.0 |
| | Speed (kt) | 1 | | | Speed (kt) | , | | | Speed (kt) | | | | | Speed (kt) | 1 | | | | Speed (kt) | | | | | Altitude (ft) | -10 000 |
| | Altitude (ft) | ı | 000 9+ | | Altitude (ft) | ı | +6 000 | | Altitude (ft) | | | 000 9+ | | Altitude (ft) | ı | ı | 000 9+ | | Altitude (ft) | | 1 | 000 9+ | | Turn | ۵ |
| | Turn direction | ı | 1 | | Turn | ı | 1 | | Turn | 1 | 1 | 1 | | Turn direction | ı | 1 | 1 | | Turn | 1 | , | 1 | | Time (min) | - |
| | Distance (NM) | ı | 15.77 | | Distance (NM) | | 18.19 | | Distance (NM) | ı | 21.14 | 7.50 | | Distance (NM) | ı | 12.74 | 7.50 | | Distance (NM) | ı | 21.71 | 7.64 | | urse/Track °M(°T) | 13 0707020 |
| | Course/Track °M(°T) | ı | 174.74(167.28) | | Course/Track °M(°T) | 1 | 210.07(202.61) | | Course/Track °M(°T) | 1 | 248.36(240.90) | 269.91(262.44) | tion | Course/Track °M(°T) | ı | 310.84(303.38) | 269.91(262.44) | | Course/Track °M(°T) | 1 | 011.62(004.15) | 048.53(041.07) | | Waypoint Fly- Course/Track Identifier over %M(°T) | C VHV |
| sition | Fly- over | ı | , | nsition | | ı | 1 | sition | | ı | 1 | 1 |) Transi | Fly- over | 1 | 1 | | sition | Fly- | ı | , | , | | Way | (1) |
| ASTA Trai | Waypoint Fly- Identifier over | MASTA | GAYHA | ALOD Trar | Waypoin Identifier | KALOD | САУНА | PARU Trar | Waypoin Identifier | APARU | ARECO | GAYHA | USAN(PSN | Waypoin Identifier | BUSAN(PSN | ARECO | САУНА | OPAX Trar | Waypoin Identifier | TOPAX | SARAM | GAYHA | IRE | Path Descriptor | 3 |
| GNSS GAYHA 2 - MASTA Transition | Path Descriptor | ΤF | Ŧ | GNSS GAYHA 2 - KALOD Transition | Path Waypoint Fly- Descriptor Identifier over | ¥ | ¥ | GNSS GAYHA 2 - APARU Transition | Path Waypoint Fly- Descriptor Identifier over | ¥ | Ŧ | Ľ | GNSS GAYHA 2 - BUSAN(PSN) Transition | Path Waypoint Fly- Descriptor Identifier over | ¥ | 土 | ᄩ | GNSS GAYHA 2 - TOPAX Transition | Path Waypoint Descriptor Identifier | Ħ | Ľ | Ľ | HOLDING PROCEDURE | Holding Identification | |
| GNSS GA | Serial Number | 100 | 002 | GNSS G | Serial Number | 100 | 002 | GNSS GA | Serial Number | 100 | 002 | 000 | GNSS GA | Serial Number | 100 | 002 | 005 | GNSS G⊅ | Serial Number | 100 | 002 | 002 | HOLDING | Ho | () () |

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