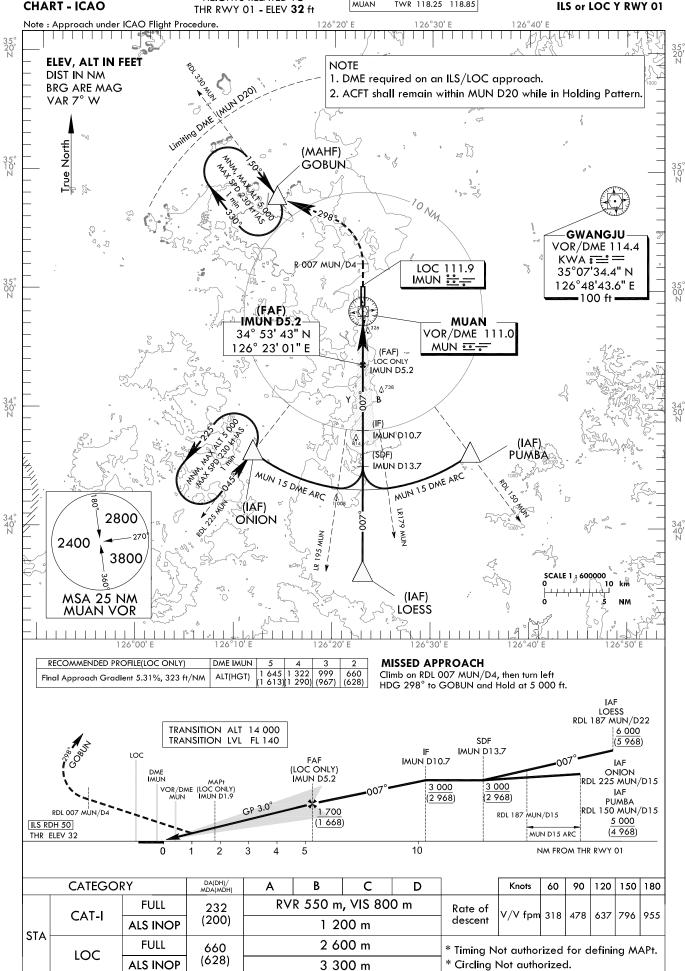
INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV 51 ft
HEIGHTS RELATED TO

GWANGJU APP 120.475 130.0 228.9 265.5 MUAN TWR 118.25 118.85 MUAN/Muan Intl(RKJB)



MUAN/Muan Intl(RKJB)
ILS or LOC Y RWY 01

AERONAUTICAL DATA TABULATION

ILS/LOC Ap	proach to RWY 01 form ONION, L	OESS or PUMBA	
Fix/p	point	Coord	linates
ONION(IAF)	R 225 MUN /15.00 NM MUN	34°46'19.7" N	126°11'50.8" E
LOESS(IAF)	R 187 MUN /22.00 NM MUN	34°36'10.5" N	126°23'06.3" E
PUMBA(IAF)	R 150 MUN /15.00 NM MUN	34°46'14.4" N	126°34'00.9" E
D13.7 IMUN(SDF)	BRG 7.10°/13.67 NM IMUN	34°45' 11.5" N	126°23'04.1" E
D10.7 IMUN(IF)	BRG 7.10°/10.69 NM IMUN	34°48' 10.9" N	126°23'03.3" E
D5.2 IMUN(FAP)	BRG 7.10°/5.17 NM IMUN	34°53'42.6" N	126°23'00.5" E
D1.9 IMUN(MAPt LOC ONLY)	BRG 7.10°/1.90 NM IMUN	34°56'59.1" N	126°22'59.2" E
MUN VOR/DME		34°58'12.7" N	126°23'00.0" E
THR RWY01		34°58'43.64" N	126°22'58.45" E
IMUN DME		34°58'53.2" N	126°22'53.8" E
IMUN LOC		35°00'23.1" N	126°22'57.8" E
D4 MUN	BRG 7.10°/4.00 NM MUN	35°02'12.9" N	126°22'57.0" E
GOBUN	BRG 298.15°/12.00 NM MUN	35°07'46.6" N	126°14'09.0" E

INSTRUMENT

APPROACH CHART - ICAO 228.9 265.5 HEIGHTS RELATED TO ILS or LOC Z RWY 01 MUAN TWR 118.25 THR RWY 01 - ELEV 32 ft Note: Approach under ICAO Flight Procedure. **ELEV, ALT IN FEET.** DIST IN NM True North **BRG ARE MAG** VAR 7° W GWANGJU VOR/DME 114.4 KWA :=== 35° 07′ 34.4″ N (MAHF) 126° 48' 43.6" E 35° 10' N GOBUN 100 ft E 13 JB401 LOC 111.9 ONION 8 35° MUAN VOR/DME 111.0 2 400 4 100 MUN <u>□</u>-**PUMBA** 34° 58' 12.7" N ONION 126° 23' 00.0" E (FAF) IMUN D5.2 (FAF) -IF ΙF C ONLY MUN D5.2 34° 53' 43" N 126° 23' 01" E (IF) KEVIN (IAF) **PUMBA** В 290° 086 (078.6°T) (282.2°T) (IAF) SCALE T: 600000 ONIÓN 10 km 086 34° 40° N 34° 40' N NOTE 1. RNAV 1 operation. 2. GNSS required. LOESS 3. ATS surveillance service required. 3 800 (IAF) 4. DME required on an ILS/LOC approach. LOESS 5. ACFT shall remain within MUN D20 while in Holding Pattern RECOMMENDED PROFILE(LOC ONLY) DME IMUN **MISSED APPROACH** 1 645 1 322 999 660 (1 613)(1 290) (967) (628) ALT(HGT) Climb to 5 000 ft on track of 007° to JB401, then LEFT turn Final Approach Gradient 5.31%, 323 ft/NM on track of 310° to GOBUN. IAF LOESS TRANSITION ALT 14 000 TRANSITION LVL FL 140 6 000 IF KEVIN LOC FAF (LOC ONLY) IMUN D5.2 ONION PUMBA N MAP† VOR/DME(LOC ONLY) MUN IMUN D1.9 3 000 (2 968) 5 000 GP 3.0° (<u>4 968</u>) JB401 1 700 ILS RDH 50 (1 668) THR ELEV 32 0 3 5 8 10 11 NM FROM THR RWY 01 **CATEGORY** DA(DH)/ MDA(MDH) Α В C D 60 120 | 150 | 180 RVR 550 m, VIS 800 m **FULL** 232 Rate of CAT-I /V fpm 318 478 637 796 955 (200)descent 1 200 m **ALS INOP** STA **FULL** 2 600 m 660 * Timing Not authorized for defining MAPt. LOC (628)**ALS INOP** 3 300 m * Circling Not authorized.

GWANGJU APP

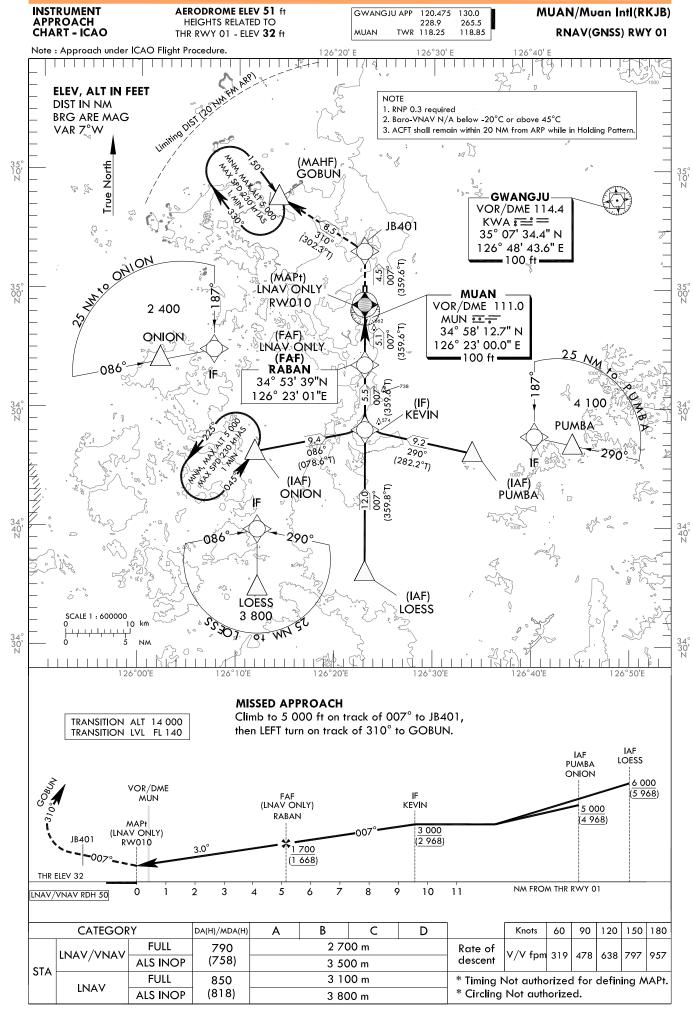
AERODROME ELEV 51 ft

120.475 130.0

MUAN/Muan Intl(RKJB)
ILS or LOC Z RWY 01

AERONAUTICAL DATA TABULATION

ILS/LOC A	oproach to RWY 01 form ONION, I	LOESS or PUMBA	
Fix/	point	Coord	dinates
ONION(IAF)		34°46'19.7" N	126°11'50.8" E
LOESS(IAF)		34°36'10.5" N	126°23'06.3" E
PUMBA(IAF)		34°46'14.4" N	126°34'00.9" E
KEVIN(IF)	BRG 7.10°/10.69 NM IMUN	34°48' 10.9" N	126°23'03.3" E
D5.2 IMUN(FAP)	BRG 7.10°/5.17 NM IMUN	34°53'42.6" N	126°23'00.5" E
D1.9 IMUN(MAPt LOC ONLY)	BRG 7.10°/1.90 NM IMUN	34°56'59.1" N	126°22'59.2" E
MUN VOR/DME		34°58'12.7" N	126°23'00.0" E
THR RWY01		34°58'43.64" N	126°22'58.45" E
IMUN DME		34°58'53.2" N	126°22'53.8" E
IMUN LOC		35°00'23.1" N	126°22'57.8" E
JB401		35°03'13.1" N	126°22'56.4" E
GOBUN		35°07'46.6" N	126°14'09.0" E



MUAN/Muan Intl(RKJB) RNAV(GNSS) RWY 01 HOLDING PROCEDURE

AERONAUTICAL DATA TABULATION

Tables
Coding
Procedure
Approach
Instrument

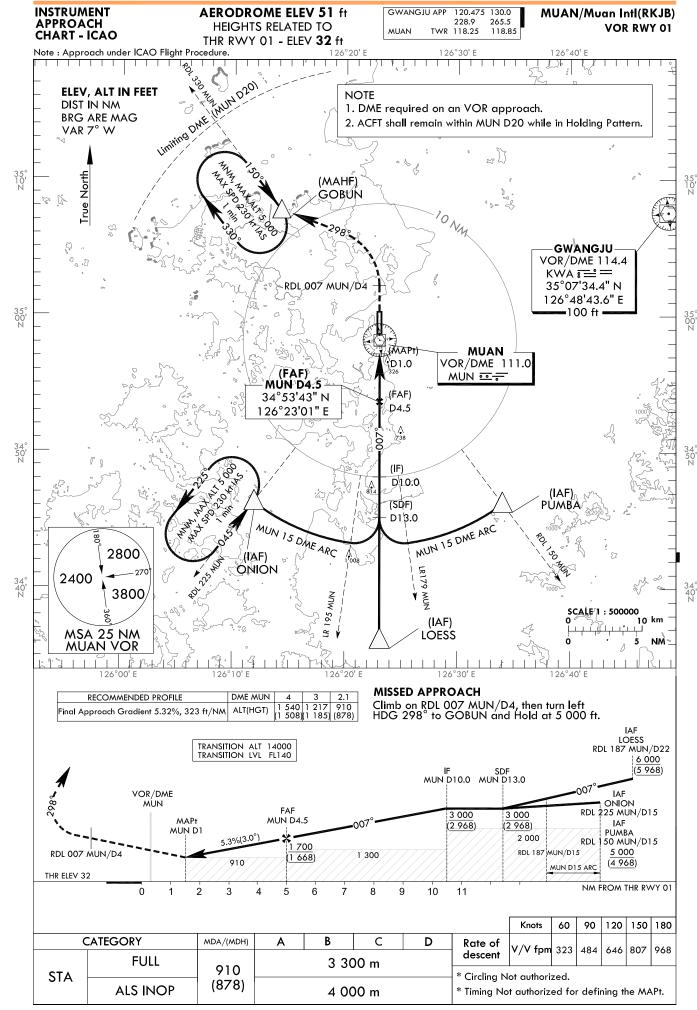
AV(GN	inav(GNSS) RWY 01 - via ONION to KEVIN	- via ONK	NO NO	o KEVIN(IF)								
Serial umber	Path Descriptor	Waypoint Fly- Course/Tr Identifier over ^M(°T)	Fly- over	Cours.	Distance (NM)	Turn direction	e/Track Distance Turn Altitude Speed (*T) (NM) direction (ft) (kt)	Speed (kt)	Coordinates	VPA/ RDH	VPA/ Navigation RDH specification	Remarks
001	<u> </u>	NOINO		1	•	•	+5 000	1	344619.7N 1261150.8E	1	RNP APCH	IAF
002	TF	KEVIN		086(078.6)	9.4	-	+3 000	1	344810.9N 1262303.3E	•	RNP APCH	Ħ

	Remarks	IAF	IF
	VPA/ Navigation RDH specification	RNP APCH	RNP APCH
	VPA/ RDH	•	ı
	Coordinates	343610.5N 1262306.3E	344810.9N 1262303.3E
	Speed (kt)	ı	•
	Altitude Speed (ft)	000 9+	+3 000
	Turn directior	,	-
	vrse/Track Distance °M(°T) (NM)	,	12.0
	Cor	•	007(359.8)
2	Fly- over		
- VIG LOF	Waypoint FI Identifier ov	SSEOT	KEVIN
KINAV (GINSS) KWY OI - VIG LOESS TO NEV	Serial Path Waypoint Fly- Number Descriptor Identifier over	н	TF
KINA V (GIV	Serial Number	100	005

OO1 IF LOESS - - - +6 000 - 343610.5N 1262306.3E - RNP APCH IAF	Σ E	Number Descriptor Identifier over	Identifier	over	(-)w	(MM)	(INM) direction (TT)		(KT)		KDH	KDH specification		
12.0 +3.000 344810.9N 1262303.3E RNP APCH RNP APCH Speed Speed Coordinates RDH RDH Specification (IVM) +5.000 +3.000 +3.000 +3.000 RNP APCH RNP			LOESS	,	ı	ı	ı	000 9+	1	343610.5N 1262306.3E	ı	RNP APCH	IAF	
ack Distance (NM) Turn direction Alfitude (ft) Speed (NT) Coordinates VPA/ RDH specification (RD) Navigation RDH specification (RD) - +5 000 +5 000 344614.4N 1263303.3E RNP APCH	ı		KEVIN		007(359.8)	12.0	ı	+3 000	-	344810.9N 1262303.3E	1	RNP APCH	Ⅎ	
ack Distance (NM) Turn direction (H) Altitude (H) Speed (Kt) Coordinates VPA/SpCH (action RDH) Navigation RDH (specification RDH) 1 +5 000 344614.4N 1263400.9E RNP APCH 2 9.2 +3 000 344810.9N 1262303.3E RNP APCH	Z	SS) RWY 0	1 - via PU <i>N</i>	ABA to	, KEVIN(IF)									
IF PUMBA - +5 000 +5 000 - 344614.4N 1263400.9E - TF KEVIN - 290(282.2) 9.2 +3 000 - 344810.9N 1262303.3E -		Path Descriptor	Waypoint Identifier	Fly- over	Course/Track °M(°T)	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Coordinates	VPA/ RDH	Navigation specification	Remarks	
TF KEVIN - 290(282.2) 9.2 - +3 000 - 344810.9N 1262303.3E -		ш	PUMBA		•	ı	ı	+5 000	1	344614.4N 1263400.9E		RNP APCH	IAF	
		۳	KEVIN		290(282.2)	9.2		+3 000	1	344810.9N 1262303.3E	1	RNP APCH	ᄟ	

-	JI - VIG NEV	\ 	(1404 (01402)	/						-	
ath criptor	Waypoint Identifier	Fly- over	Serial Path Waypoint Hy- Course Track Distance Turn Number Descriptor Identifier over ${}^{\circ}M({}^{\circ}T)$ (NM) direction	Distance (NM)	Turn direction	Altitude Speed (ft)	Speed (kt)	Coordinates	VPA/ RDH	VPA/ Navigation RDH specification	Remarks
ΤF	KEVIN	ı		i	-	000 £+	ı	344810.9N 1262303.3E	ı	RNP APCH	브
Ħ	RABAN	1	- 007(359.6)	5.5		+1 700	1	345338.8N 1262300.8E	ı	RNP APCH	FAF
⊭	RW010	>	RW010 y 007(359.6)	5.1	ı	+850		345843.64N 1262258.45E	-3.00/50	-3.00/50 RNP APCH	MAPt
۴	JB401		- 007(359.6)	4.5	ı	ı	1	350313.1N 1262256.4E		RNP APCH	•
Ľ	GOBUN	>	TF GOBUN y 310(302.3)	8.5	ı	1		350746.6N 1261409.0E	ı	RNP APCH	•
НЖ	GOBUN	>	HM GOBUN Y 150(142.8)	i	~	@5 000 -230	-230	350746.6N 1261409.0E	ı	RNP APCH	1 min (Outbound timing)

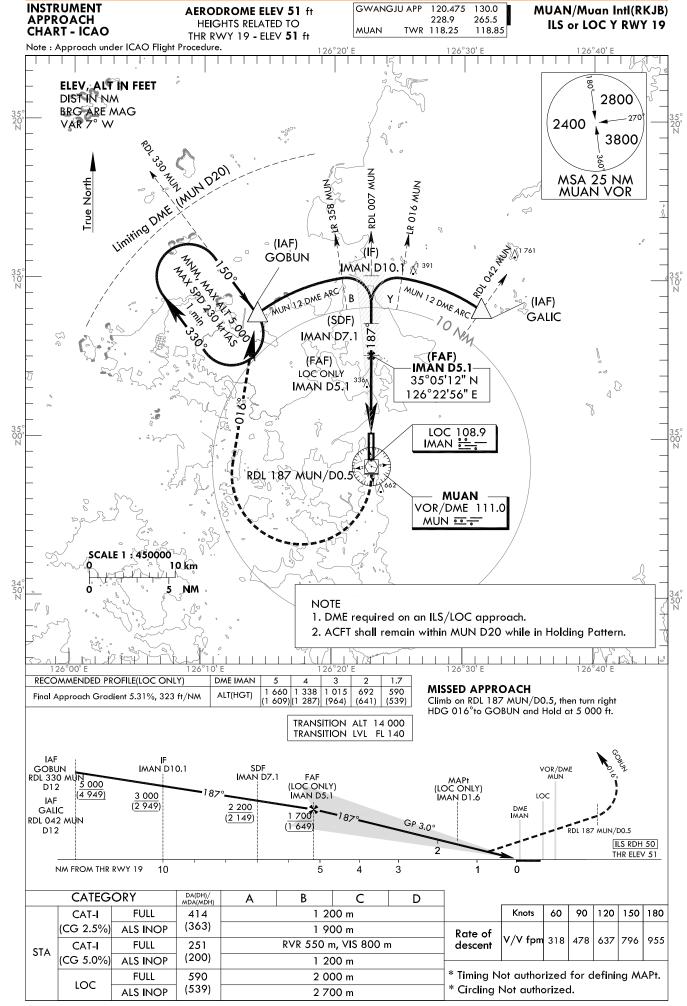
Holding Path Waypoint Fly-Course/Track Time Turn Altitude Speed Identification Descriptor Identifier over "M(°T) (min) direction Remarks RNAV(GNSS) RWY 01 HW ONION Y 045 (037.7) 1 L @5 000 -230 344619.7N 1261150.8E - RNAV 1 - R		
Path Numappoint Fly- Descriptor Identifier over over ONION Y ONION Y 045 (037.7) Course/Track (min) direction (ft) (ft) (kt) Altitude (ft) (kt) (kt) Speed (kt) (kt) Coordinates (RDH speed (RDH sp	Remarks	1
Path Naypoint Fly- Course/Track Nescriptor Identifier over ONION Y ONES. Course/Track (min) direction (if) (if) (kt) Altitude (kt) (kt) Speed (kt) Coordinates Y	Navigation specification	RNAV 1
n Path Vaypoint Ply- Navypoint Ply- Nave / Track Time (min) Turn direction direction Altitude (ft) Speed (kt) VY 01 HM ONION Y 045 (037.7) 1 L @5 000 -230	VPA/ RDH	1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Coordinates	344619.7N 1261150.8E
Path Waypoint Fly- Course/Track Time Turn Vescriptor Identifier over "M(°T) (min) direction HM ONION Y 045 (037.7) 1 L	Speed (kt)	-230
n Descriptor Identifier over °M(°T) (min) di	Altitude (ft)	@5 000
Path Waypoint Fly- Course/Track 1 Descriptor Identifier over	Turn direction	_
n Descriptor Identifier over ^ ^A	Time (min)	_
Path Waypoint Descriptor Identifier VY 01 HM ONION	Ţ.	045 (037.7)
Path Waypoint Descriptor Identifier VY 01 HM ONION	Fly- over	>-
Holding Path Identification Descriptor RNAV(GNSS) RWY 01 HM	Waypoint Identifier	NONO
Holding Identification RNAV(GNSS) RWY 01	Path Descriptor	¥H
	Holding Identification	RNAV(GNSS) RWY 01



MUAN/Muan Intl(RKJB) VOR RWY 01

AERONAUTICAL DATA TABULATION

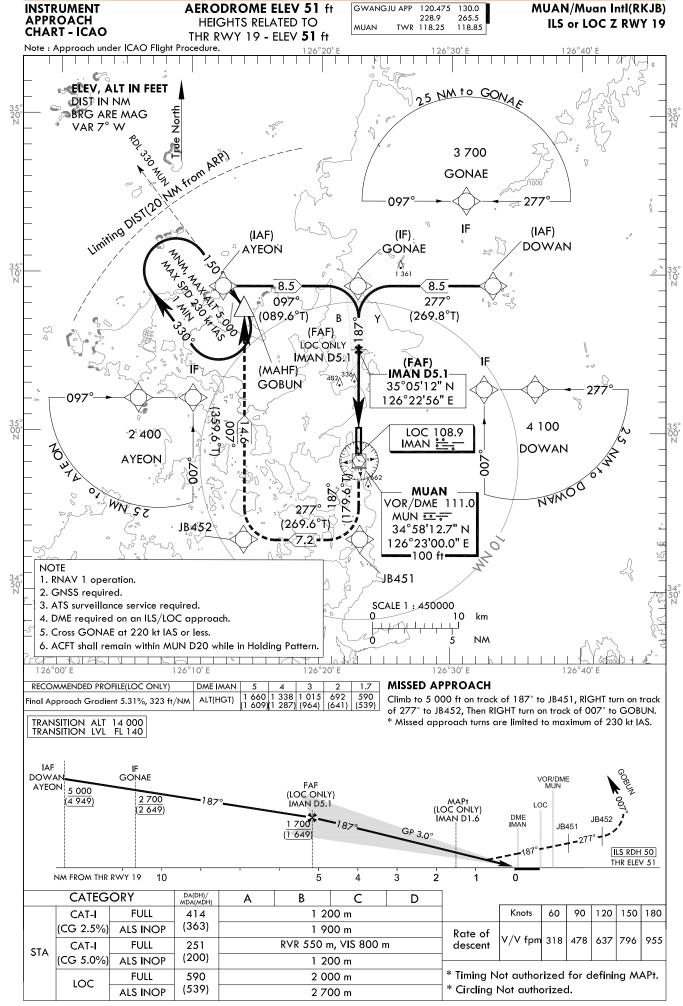
	VOR Approach to RWY 01 form ONION, LO	ESS or PUMBA	
	Fix/point	Coord	dinates
ONION(IAF)	R 225 MUN /15.00 NM MUN	34°46'19.7" N	126°11'50.8" E
LOESS(IAF)	R 187 MUN /22.00 NM MUN	34°36'10.5" N	126°23'06.3" E
PUMBA(IAF)	R 150 MUN /15.00 NM MUN	34°46'14.4" N	126°34'00.9" E
D13 MUN(SDF)	BRG 7.31°/13.00 NM MUN	34°45' 11.5" N	126°23'03.7" E
D10 MUN(IF)	BRG 7.31°/10.0 NM MUN	34°48' 10.9" N	126°23'03.3" E
D4.5 MUN(FAF)	BRG 7.31°/4.50 NM MUN	34°53'42.6" N	126°23'00.5" E
D1 MUN(MAPt)	BRG 7.31°/1.00 NM MUN	34°57'12.6" N	126°23'00.3" E
MUN VOR/DME		34°58'12.7" N	126°23'00.0" E
THR RWY01		34°58'43.64" N	126°22'58.45" E
D4 MUN	BRG 7.31°/4.00 NM MUN	35°02'12.9" N	126°22'57.0" E
GOBUN	BRG 298.35°/12.00 NM MUN	35°07'46.6" N	126°14'09.0" E



MUAN/Muan Intl(RKJB) ILS or LOC Y RWY 19

AERONAUTICAL DATA TABULATION

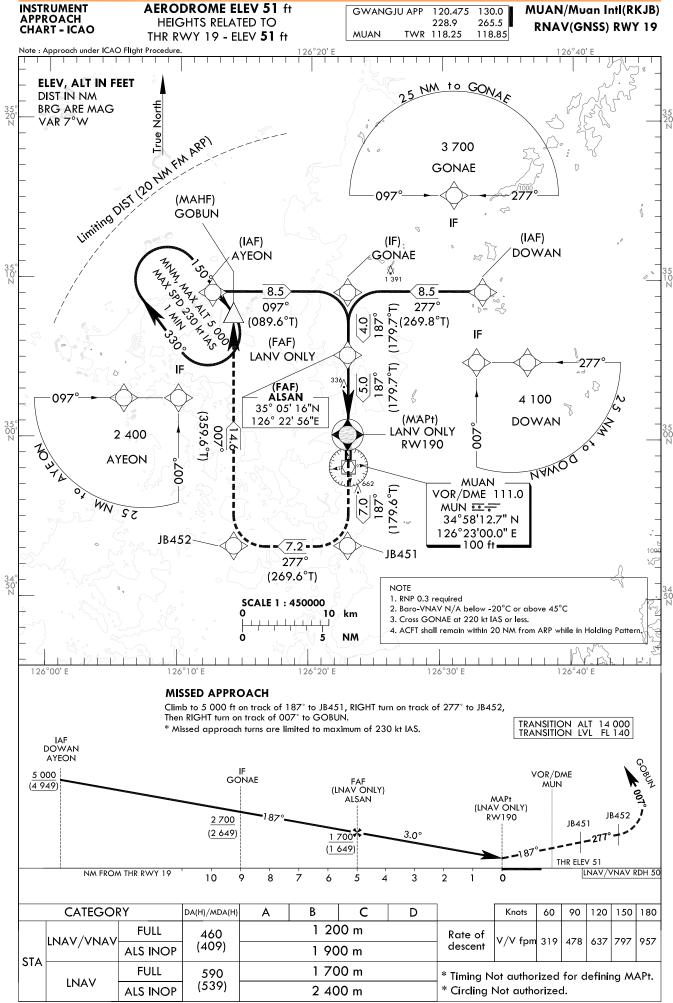
ILS/L	OC Approach to RWY 19 form GOBL	JN or GALIC	
Fiz	x/point	Coord	dinates
GOBUN(IAF)	R 330 MUN /12.00 NM MUN	35°07'46.6" N	126°14'09.0" E
GALIC(IAF)	R 042 MUN /12.00 NM MUN	35°08'04.8" N	126°31'20.7" E
D10.1 IMAN(IF)	BRG 187.14°/10.14 NM IMAN	35°10'13.8" N	126°22'53.6" E
D7.1 IMAN(SDF)	BRG 187.14°/7.14 NM IMAN	35°07'13.4" N	126°22'54.7" E
D5.1 IMAN(FAP)	BRG 187.14°/5.12 NM IMAN	35°05'12.3" N	126°22'55.7" E
D1.6 IMAN(MAPt LOC ONLY)	BRG 187.14°/1.60 NM IMAN	35°01'40.5" N	126°22' <i>57</i> .2" E
THR RWY19		35°00'14.49" N	126°22' <i>57</i> .82" E
IMAN DME		35°00'04.3" N	126°22'53.3" E
IMAN LOC		34°58'35.0" N	126°22'58.5" E
MUN VOR/DME		34°58'12.7" N	126°23'00.0" E
D0.5 MUN	BRG 187.14°/0.50 NM MUN	34°57'42.7" N	126°23'00.2" E
GOBUN	BRG 016.40°/12.00 NM MUN	35°07'46.6" N	126°14'09.0" E



MUAN/Muan Intl(RKJB) ILS or LOC Z RWY 19

AERONAUTICAL DATA TABULATION

ILS/LOC	C Approach to RWY 19 form AYEON	N or DOWAN	
Fix/	point	Coord	dinates
AYEON(IAF)		35°09'10.2" N	126°12'32.1" E
DOWAN(IAF)		35°09'16.1" N	126°33'16.0" E
GONAE(IF)		35°09'13.6" N	126°22'54.0" E
D5.1 IMAN(FAP)	BRG 187.14°/5.12 NM IMAN	35°05'12.3" N	126°22'55.7" E
D1.6 IMAN(MAPt LOC ONLY)	BRG 187.14°/1.60 NM IMAN	35°01'40.5" N	126°22' <i>57</i> .2" E
THR RWY19		35°00'14.49" N	126°22'57.82" E
IMAN DME		35°00'04.3" N	126°22'53.3" E
IMAN LOC		34°58'35.0" N	126°22'58.5" E
MUN VOR/DME		34°58'12.7" N	126°23'00.0" E
JB451		34°53'13.8" N	126°23'01.0" E
JB452		34°53'10.9" N	126°14'17.1" E
GOBUN		35°07'46.6" N	126°14'09.0" E



MUAN/Muan Intl(RKJB) RNAV(GNSS) RWY 19

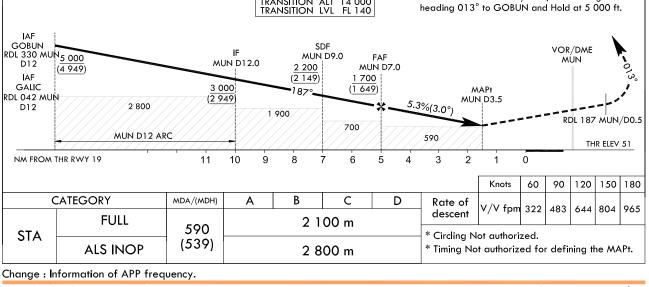
AERONAUTICAL DATA TABULATION

Tables
Coding
rocedure
Approach P
Instrument A

	Remarks	IAF	≝
	Navigation specification	RNP APCH	RNP APCH
o GONAE(IF)	VPA/ RDH	ı	•
	Coordinates	350916.1N 1263316.0E	350913.6N 1262254.0E
	Speed (kt)		-220
	Altitude (ft)	+5 000	+2 700
	Turn 'ectior	1	ı
	Distance (NM)	•	8.5
	Course/Track [°M(°T)	Ī	277(269.8)
۲AN,	Fly- over		
? - via DO\	Waypoint Fly- Course/Tr Identifier over "M("T)	DOWAN	GONAE -
NAV(GNSS) RWY 19 - via DOWAN to GONA	Path Descriptor	ŀ	ΤF
RNAV(GN:	Serial Number	100	002

	Remarks	IAF	<u>L</u>
	Navigation specification	RNP APCH	RNP APCH
	VPA/ RDH s	1	ı
	Coordinates	350910.2N 1261232.1E	350913.6N 1262254.0E
	Speed (kt)	1	-220
	Altitude (ft)	+5 000	+2 700
	Turn direction	ı	ī
	/Track Distance °T) (NM)	•	8.5
GONAE(IF)	Course/Track °M(°T)	•	- 097(089.6)
Q Q Q	Fly- over	1	1
9 - via AYEON to GONA	Waypoint Fly- C Identifier over	AYEON	GONAE
JAV(GNSS) RWY 19	Path Descriptor	IF	ΤF
RNAV(GNS	Serial Number	100	002

	Remarks	브	FAF	MAPt	1	•	•	1 min (Outbound timing)
	Navigation specification	RNP APCH	RNP APCH	-3.00/50 RNP APCH	RNP APCH	RNP APCH	RNP APCH	RNP APCH
	VPA/ RDH	1	1	-3.00/50	ı		1	ı
	Coordinates	350913.6N 1262254.0E	350515.9N 1262255.7E	350014.49N 1262257.82E	345313.8N 1262301.0E	345310.9N 1261417.1E	350746.6N 1261409.0E	350746.6N 1261409.0E
	Speed (kt)	-220	1	1	-230	-230	-230	-230
	Altitude (ft)	+2 700	+1 700	+590	1	ı	ı	@2 000
	Turn direction	1	ı	ı	ı	ı	ı	~
(AII)		ī	4.0	5.0	7.0	7.2	14.6	1
14AV (61455) KVV 1 1 4 - VID (6014AE(IF) 10 (605014(MAHIT)	Serial Path Waypoint Fly- Course/Track Distance Number Descriptor Identifier over ${}^{\circ}M({}^{\circ}T)$ (NM)	ı	187(179.7)	RW190 Y 187(179.7)	187(179.6)	- 277(269.6)	TF GOBUN Y 007(359.6)	GOBUN Y 150(142.8)
	Fly- over	ı		>	,	ı	\	>
555	Waypoint Identifier	GONAE	ALSAN	RW190	JB451	JB452	GOBUN	GOBUN
50 LVV L 13	Path Descriptor	ŦF	Ħ	#	Ŧ	Ŧ	Ŧ	¥I
デラ ンマン	Serial Number	005	003	900	900	900	200	800



MUAN/Muan Intl(RKJB) VOR RWY 19

AERONAUTICAL DATA TABULATION

VOR Approach to RWY 19 form GOBUN or GALIC					
	Fix/point	Coordinates			
GOBUN(IAF)	R 330 MUN /12.00 NM MUN	35°07'46.6" N	126°14'09.0" E		
GALIC(IAF)	R 042 MUN /12.00 NM MUN	35°08'04.8" N	126°31'20.7" E		
D12 MUN(IF)	BRG 187.12°/12.00 NM MUN	35°10'13.8" N	126°22'53.6" E		
D9 MUN(SDF)	BRG 187.12°/9.00 NM MUN	35°07'13.5" N	126°22'55.2" E		
D7 MUN(FAF)	BRG 187.12°/7.00 NM MUN	35°05'13.4" N	126°22'56.3" E		
D3.5 MUN(MAPt)	BRG 187.12°/3.50 NM MUN	35°01'43.0" N	126°22'58.2" E		
THR RWY19		35°00'14.49" N	126°22'57.82" E		
MUN VOR/DME		34°58'12.7" N	126°23'00.0" E		
D0.5 MUN	BRG 187.12°/0.50 NM MUN	34°57'42.7" N	126°23'00.2" E		
GOBUN	BRG 013.43°/12.00 NM MUN	35°07'46.6" N	126°14'09.0" E		