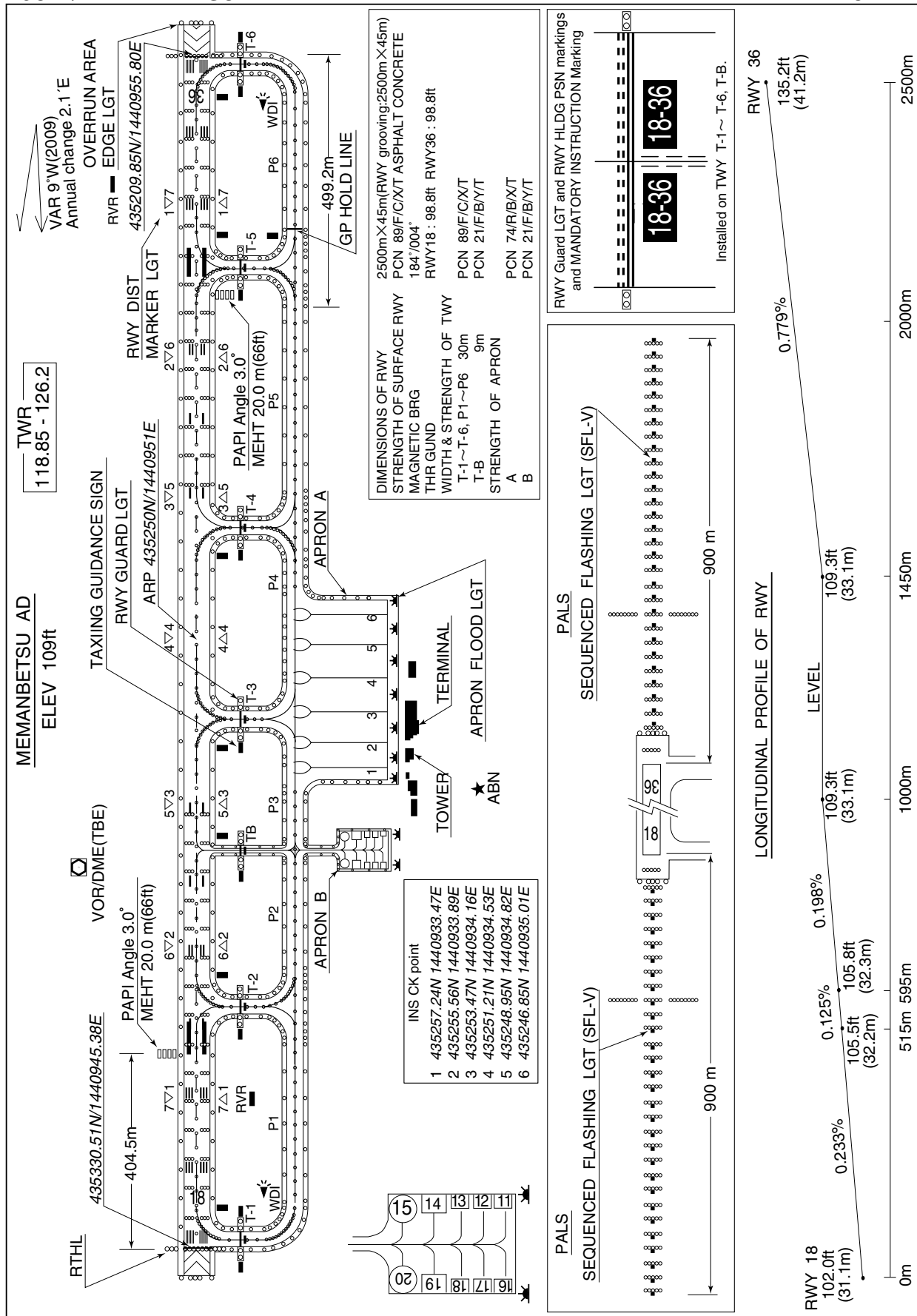


RJCM / MEMANBETSU

AD CHART



STANDARD DEPARTURE CHART -INSTRUMENT

RJCM / MEMANBETSU

SID

KUSHIRO THREE DEPARTURE

RWY 18 : Climb via TBE R187/KSE R007 to KSE VOR/DME.

RWY 36 : Climb RWY HDG to 800FT, turn right HDG 217° to intercept and proceed via TBE R187/KSE R007 to KSE VOR/DME.

Note RWY18 : 3.9% climb gradient required up to 4500FT.

OBST ALT 3281FT located at 17.0NM 179° FM end of RWY18.



STANDARD DEPARTURE CHART-INSTRUMENT

RJCM / MEMANBETSU

SID

EATAK THREE DEPARTURE

RWY 18 : Climb RWY HDG to 800FT, turn right climb via TBE R220/OBE R039 to EATAK....

RWY 36 : Climb RWY HDG to 1000FT, turn left HDG 175° to intercept and proceed via
TBE R220/OBE R039 to EATAK....

....Cross EATAK at or above 6000FT.

Note RWY36 : 3.9% climb gradient required up to 2000FT.

OBST ALT 1181FT located at 4.5NM 290° FM end of RWY36.



STANDARD DEPARTURE CHART-INSTRUMENT

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SID

MEMANBETSU REVERSAL THREE DEPARTURE

RWY 18 : Climb via TBE R187 to TBE 5.0DME, turn left....

RWY 36 : Climb via TBE R001 to TBE 5.0DME, turn right,....

....Proceed to TBE VOR/DME. Cross TBE VOR/DME at or above 4000FT.



STANDARD DEPARTURE CHART-INSTRUMENT

RJCM / MEMANBETSU

RNAV SID

SHIBARE ONE DEPARTURE

Basic RNP1

Note GNSS required.

VAR 9° W(2016)

SHIBARE ONE DEPARTURE



SHIBARE ONE DEPARTURE

RWY18: Climb on HDG184° at or above 600FT, turn right direct to NICOL at or above 7000FT, to NOTAK at or above 9000FT.

RWY36: Climb on HDG004° at or above 600FT, turn left direct to NICOL at or above 7000FT, to NOTAK at or above 9000FT.

Note RWY36 : 5.0% climb gradient required up to 600FT.

OBST ALT 1181FT located at 6.3NM 312° FM end of RWY36.

RWY18

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	184 (174.7)	-9.2	—	—	+600	—	—	Basic RNP1
002	DF	NICOL	—	—	-9.2	—	R	+7000	—	—	Basic RNP1
003	TF	NOTAK	—	231 (222.1)	-9.2	45.3	—	+9000	—	—	Basic RNP1

RWY36

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	VA	—	—	004 (354.7)	-9.2	—	—	+600	—	—	Basic RNP1
002	DF	NICOL	—	—	-9.2	—	L	+7000	—	—	Basic RNP1
003	TF	NOTAK	—	231 (222.1)	-9.2	45.3	—	+9000	—	—	Basic RNP1

STANDARD ARRIVAL CHART-INSTRUMENT

RJCM / MEMANBETSU

STAR

QURIO ARC ARRIVAL

From over GINGA or TSUKA, turn left via TBE 13.0DME clockwise ARC to QURIO.
Cross QURIO at or above 4000FT.



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ILS Z or LOC Z RWY18



RJCM / MEMANBETSU

ILS Y or LOC Y RWY18

VAR 9°W (2012)

MSA 25NM

TBE
3900
2600
090°
270°
5600
360°

KITAMI CITY

MHA 4000
MAX 230KIAS

• 1394

• 837

VOR/DME
MEMANBETSU
110.85 TBE
CH-45Y
43°53'06"N / 144°09'58"E

MAPt (LOC)
D0.6 ITB

971

538 335

TANNO(FAF)
D7.4 ITB

• 1575

10NM

• 1394

HDG001°

R046

019°

046°

046°

D19.0 TBE

MHA 3100
MAX 230KIAS

RAUSU
D13.0 TBE

1061

944

460

352

269

524

• 502

090°

270°

360°

TANNO(FAF) : 440041.52N / 1440849.54E

EQPT REQUIRED
DME
VOR

MAX turning speed 200KIAS
Turn initiation within D11.0 TBE

Turn initiation within D11.0 TBE

2500

184°

2400(LOC)

GP 3.0°

184°

2500

2449(LOC)

TANNO (FAF)

019°

4000

TBE

MAPt (LOC)

VDP (LOC)

MDA

RDH54

MISSED APPROACH

Climb to 700FT on HDG184°, turn left HDG001° to intercept and proceed via TBE R046 to RAUSU and hold at 3100FT. Contact MEMANBETSU TOWER.

Timing not authorized for defining the MAPt

7.4	1.1	0.6	0.2	
7.2	1.0	0.5	0	DME to ITB
				NM to THR

MINIMA		THR elev. 102		AD elev. 109		
CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	302 (200)	550	450 (341)	900	640 (531)	1600
B				1000		
C					750 (641)	2400
D					1400	760 (651)

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ILS or LOC RWY36



INSTRUMENT APPROACH CHART

RJCM / MEMANBETSU

VOR RWY18



RJCM / MEMANBETSU

VOR RWY36

29/3/18

INSTRUMENT APPROACH CHART

RJCM / MEMANBETSU

➔ RNAV(RNP) RWY18

SAPPORO CONTROL
128.325 – 246.1
134.25 – 260.4

GNSS and RF required.

MEMANBETSU TOWER
118.85 – 126.2

NO RADAR

For uncompensated Baro-VNAV systems, procedure not authorized below -25°C / above 45°C

VAR 9°W (2017)



MISSED APPROACH

From RW18 on track 184°, at or above 600FT turn left, direct to RAUSU and hold at 3100FT. Contact MEMANBETSU TOWER.

**RNP AR**

Special Authorization Required

INSTRUMENT APPROACH CHART

RJCM / MEMANBETSU

➔ RNAV(RNP) RWY18

RNAV(RNP) RWY18Coding Table

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	VPA/RDH (°/FT)	RNP Value
001	IF	OZORA	—	—	-9.2	—	—	+7000	—	—	—
002	TF	SHARO	—	019 (009.5)	-9.2	14.1	—	+4300	—	—	1.0
003	TF	CM850	—	019 (009.6)	-9.2	12.0	—	+3000	-185	—	1.0
004	RF Center: CMRF1 r=3.04	TENTO	—	—	-9.2	4.6	L	2500	-165	—	1.0
005	RF Center: CMRF1 r=3.04	CM851	—	—	-9.2	5.7	L	675	—	-3.00	0.3
006	TF	RW18	Y	184 (174.7)	-9.2	1.6	—	156	—	-3.00/54	0.3
007	FA	—	—	184 (174.7)	-9.2	—	—	+600	—	—	1.0
008	DF	RAUSU	—	—	-9.2	—	L	3100	—	—	1.0

Waypoint Coordinates

Waypoint Identifier	Coordinates	RF Arc Center Identifier	Coordinates
OZORA	432908.24N / 1441153.19E	CMRF1	435524.66N / 1441344.15E
SHARO	434301.91N / 1441506.66E		
CM850	435454.27N / 1441753.05E		
TENTO	435822.66N / 1441439.66E		
CM851	435507.75N / 1440932.81E		
RW18	435330.51N / 1440945.38E		
RAUSU	440327.56N / 1442052.43E		

RJCM / MEMANBETSU

Visual REP



Call sign	BRG / DIST from ARP	Remarks
網走 Abashiri	034°/ 9NM	JR駅 Station
涛沸湖 Tohfutsu-ko	082°/10.5NM	湖 Lake
小清水 Koshimizu	105°/13.3NM	学校 School
東藻琴 Higashimokoto	121°/ 6.1NM	市街地 Town
美幌峠 Bihoro - tohge	173°/14.3NM	峠 Pass
津別 Tsubetsu	221°/11.8NM	市街地 Town
美幌ステーション Bihoro Station	235°/ 3.5NM	JR駅 Station
北見 Kitami	257°/12.5NM	JR駅 Station
浜佐呂間 Hamasaroma	329°/15.3NM	佐呂間大橋 Bridge

RJCM / MEMANBETSU

LDG CHART



RJCM / MEMANBETSU

Minimum Vectoring Altitude CHART

