

WMKB AD 2.1 AERODROME LOCATION INDICATOR AND NAME**WMKB - BUTTERWORTH****WMKB AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

1	ARP coordinates and site at AD	LAT 052758N LONG 1002328E
2	Direction and distance from city	005° / 4.5 NM from Butterworth Town.
3	Elevation / Reference temperature	8 FT (2.4 M) / 27.5° C
4	MAG VAR / Annual change	12min 30sec West (1999)
5	AD Administration, address, telephone, telefax, telex, AFS	Operator: Royal Malaysian Air Force Royal Malaysian Air Force Butterworth 12990 Butterworth Penang. Tel : 04 - 3204333 / 3204355 Fax : 04 - 3232122
6	Types of traffic permitted (IFR/VFR)	IFR / VFR
7	Remarks	Nil

WMKB AD 2.3 OPERATIONAL HOURS

1	AD Administration	Mon - Fri : 0001-0830 Sat : 0001-0445
2	Customs and immigration	24 hrs PN
3	Health and sanitation	Nil
4	AIS Briefing Office	H24
5	ATS Reporting Office (ARO)	H24
6	MET Briefing Office	H24
7	ATS	APP/TMA : H24 AD: Mon - Thu : 2300 - 1100 Fri : 2300 - 0515 and 0600 - 1100 Sat : 2300 - 0500 Sun and Public Holiday : 48 hrs PPR. Night flying will take place - Mon to Wed : 1100 - 1500
8	Fuelling	Nil
9	Handling	Nil
10	Security	H24
11	De-icing	Nil
12	Remarks	PPR for all non-RMAF acft. Sked civil acft subject to agreement. Malaysian based acft (non-sked): a) Drg Butterworth's hrs of ops req thru FPO/OPS Tel: 04-320433 / 3204352, 48 hrs PN required. b) Outside Butterworth's hrs of ops, req thru: Markas Tentera Udara (POTU) Wisma Pertahanan Jalan Padang Tembak 50634 Kuala Lumpur. Tel: 03 -2314471, 48 hrs PN required. Req to be made before noon on a working day.

WMKB AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	Nil
2	Fuel / Oil types	Jet A1
3	Fuelling facilities / capacity	No fuelling facilities avbl for civil acft.
4	De-icing facilities	Nil
5	Hanger space available for visiting aircraft	Prior arrangement required.
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

WMKB AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in town.
2	Restaurants	Nil
3	Transportation	Nil
4	Medical facilities	Nil
5	Bank and Post Offices	Nil
6	Tourist Office	Nil
7	Remarks	Nil

WMKB AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	Required: CAT VII
2	Rescue equipment	Military standard
3	Capability for removal of disabled aircraft	Military standard
4	Remarks	Nil

WMKB AD 2.7 SEASONAL AVAILABILITY - CLEARING

NOT APPLICABLE

WMKB AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength	Surface : Concrete Strength : LCN 80
2	Taxiway width, surface and strength	Width : 60 FT Surface : Asphalt Strength : LCN 80
3	ACL location and elevation	Location : On both threshold Elevation : Rwy 18: 10 FT. Rwy 36: 11 FT.
4	VOR / INS checkpoint	VORTAC : At holding points before entering threshold of both rwys. INS : Nil
5	Remarks	Nil

WMKB 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	Nil
2	RWY and TWY markings and LGT	Standard ICAO
3	Stop bars	Standard ICAO
4	Remarks	Nil

WMKB AD 2.10 AERODROME OBSTACLES

RWY / Area effected	Obstacles Type Elevation Markings / LGT	Coordinates
a	b	c
Circuit Area	Chimney brg 100°, 2 NM fm ARP, hgt 110 FT.	-
	Telecom Mast brg 165° (T), 5 NM fm ARP, hgt 400 FT. Lgtd.	-
	High Tension Mast/Pylon, East of airfield running North/South 4 NM fm ARP, hgt 100 FT.	-
	Building brg 185°, 4.5 NM fm ARP, hgt 110 FT.	-
	Telecom Tower brg 168° dist 4.5 NM fm ARP, hgt 300 FT AMSL. Lgtd at night.	052345.7N 1002425.3E
	Two high Mast erected brg 170°, 3.3 NM fm airfield, hgt 300 FT. Lgtd at ngt.	-
	HF Antenna, hgt 105 FT AMSL. Marked and lgtd.	052728.7N 1002337.3E
	ILS GP Transmitter erected East of RWY APRX 278 FT. from RWY edge, 1000 FT from THR RWY 36, hgt 59.5 FT. Marked and lgtd.	-
	LLZ Antenna, hgt 12 FT. Marked and lgtd.	052846.1N 1002331.2E
	Building erected at final path RWY 18 and 2000M from THR RWY 18, hgt 100FT.	052907.8N 1002326.2E

WMKB AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	BUTTERWORTH
2	Hours of service MET Office outside hours	H24
3	Office responsible for TAF preparation Periods of validity	Butterworth Meteorological Office 24
4	Type of landing forecast Interval of issuance	TREND Hourly
5	Briefing / consultation provided	Provided
6	Flight documentation Language(s) used	Charts, Tabular Form and Abbreviated Plain Language Text English
7	Charts and other information available for briefing or consultation	Flight Level Wind/Temp Fl50, FL100, FL140, FL180, FL250, FL320 and FL360, SIGWX, Volcanic Ash/Tropical Cyclone Advisory, SIGMET, AIRMET, Aerodrome Warning, METAR Bulletin, ARFOR, FIFOR, ROFOR, Radar and Satellite Pictures.
8	Supplementary equipment available for providing information	Self-Briefing Terminals (Internet)
9	ATS units provided with information	Butterworth Control Tower
10	Additional information	Tel : 04 - 3314633 Fax: 04 - 3319897

WMKB AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designation RWY NR	TRUE and MAG BRG	Dimensions of RWY (M)	Strength (PCN) Surface of RWY and SWY	THR Coordinates	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
18	184	2438 x 45.7	LCN 80 Asphalt	Nil	10 FT
36	004	2438 x 45.7	LCN 80 Asphalt	Nil	11 FT

Slope of RWY - SWY	SWY Dimensions (M)	CWY Dimensions (M)	Strips Dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
Nil	183	Nil	1187 x 30.5	Nil	Nil
Nil	183	Nil	1187 x 30.5	Nil	Nil

WMKB AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
18	2438	2702	2702	2438	Nil
36	2438	2702	2702	2438	Nil

WMKB AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH Lgt	THR Lgt	VASIS (MEHT) PAPI	TDZ Lgt	RWY Centre Line Lgt	RWY Edge Lgt	RWY End Lgt WBAR	SWY Lgt	Remarks
1	2	3	4	5	6	7	8	9	10
18	HIAL RED T	Green	PAPI on both side of RWY GP set to 2.75°	Nil	Nil	High intst white omni with last 2000ft Amber	Rwy End - Red WBAR - Green	Nil	Nil
36	RED T	Green	PAPI on both side of RWY GP set to 2.75°	Nil	Nil	High intst white omni with last 2000ft Amber	Rwy End - Red WBAR - Green	Nil	Nil

WMKB AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN / IBN location, characteristics and hours of operation	Nil
2	LDI location and LGT Anemometer location and LGT	Nil Brg 197°, 0.25 NM fm ARP and lgtd.
3	TWY edge and centre line lighting	Centreline lighting only.
4	Secondary power supply / switch-over time	Avbl and switch over within 10 seconds
5	Remarks	Nil

WMKB AD 2.16 HELICOPTER LANDING AREA

- 1 Landing area named Pad ECHO situated on eastern side of runway on old East-West runway. Approach and departure via East known as Chopper East.

WMKB AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	Butterworth CTR Semi-circle of 15 NM radius centred on VBT (052834.7N 1002337.3E) from 053653N 1001113E clockwise to 051947N 1003555E thence a straight line to 050817N 1002755E thence a semi-circle of 15 NM radius centred VPG (051646.7N 1001537.4E) clockwise to 052517N 1000319E thence a straight line to 053654N 1001118E.
2	Vertical limits	Gnd/Sea Level to 5500 FT.
3	Airspace classification	Class B
4	ATS unit callsign Language(s)	Butterworth Approach, Butterworth Tower English
5	Transition altitude	11000 FT
6	Remarks	Associated airspace under control are WMD 411, WMD 412, WMD 413, WMD 414 and WMR 415 and eastern training area within 054700N 1015848E to 052230N 1010730E to 044212N 1013000E to 041500N 101435E and to 054700N 1015848E

WMKB AD 2.18 ATS COMMUNICATION FACILITIES

Service Designation	ID	Frequency	Hours of operation	Remarks
1	2	3	4	5
SMC	BUTTERWORTH GROUND	263.8 MHZ 134.6 MHZ	H24	P Primary S Secondary * On request f Emergency Testing of ground equipment on 243.0 MHZ daily.
TWR	BUTTERWORTH TOWER	P 257.2 MHZ * 118.3 MHZ f 243.0 MHZ f 121.5 MHZ		
APP	BUTTERWORTH APPROACH	P 125.8 MHZ S 128.5 MHZ f 243.0 MHZ f 121.5 MHZ		
DEP	BUTTERWORTH DEPARTURE	268.4 MHZ 128.5 MHZ f 243.0 MHZ f 121.5 MHZ		
DIR	BUTTERWORTH TRAFFIC	274.3 MHZ 120.8 MHZ f 243.0 MHZ f 121.5 MHZ		
PAR (GCA)	BUTTERWORTH FINALS	290.8 MHZ 123.2 MHZ * 344.0 MHZ f 243.0 MHZ f 121.5 MHZ	Mon - Fri 0001 - 0900 Sat 0001 - 0500	Sunday and public holiday only avbl for operational task.
ATIS	BUTTERWORTH TERMINAL INFORMATION	230.1 MHZ 122.750 MHZ	Mon - Thu 2300 - 1200 Fri 2300 - 1000 Sat 2300 - 0500	-
RESCUE SUB CENTRE	MRX	P 3023 MHZ P 9027 MHZ P 3095 MHZ S 5695.5 MHZ S 6693 MHZ	HO	-

WMKB AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid	ID	Frequency	Hours of operation	Coordinates	DME Elevation	Remarks
1	2	3	4	5	6	7
TACAN	BTR	113.3 MHZ CH80X	H24	052820N 1002340E	-	020° MAG / 0.37 NM Limited range and unreliable b/n 230° and 270° below 7100 FT due terrain shielding. Standby Portable.
VORTAC	VBV	113.3 MHZ CH 80X		052834.7N 1002337.3E	-	015° MAG / 0.57 NM Limited range and unreliable b/n 230° and 270° below 7100 FT due terrain shielding.

WMKB AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Local Flying Restrictions

- a) Circuit patterns :
- i) Jet aircraft - circuit height 1500 FT. Fixed wing - 1000 FT.
 - ii) Helicopter - circuit height 700 FT QNH day / 1000 FT night.
 - iii) Stream landing and standard rejoin.
- b) Arrestor Barrier :
- i) Runway 18 & 36 - BEF AB Type 21:2 (overrun 862 FT)
 - ii) Runway 18 & 36 - BAK 12 AAHS (MTOD 1700 FT)

WMKB AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

WMKB AD 2.22 FLIGHT PROCEDURES

NIL

WMKB AD 2.23 ADDITIONAL INFORMATION

- 1. Bird Concentration In The Vicinity Of The Airport.**
 - 1.1 Flock of birds in the vicinity of the airfield. Pilot to exercise caution.

- 2 Other Activities.**
 - 2.1 Kites flying during padi harvesting season and school holidays.