

WMKN AD 2.1 AERODROME LOCATION INDICATOR AND NAME

WMKN - KUALA TERENGGANU/SULTAN MAHMUD

WMKN AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	LAT 052253N LONG 1030617E (on runway)
2	Direction and distance from city	Dist 8 KM, BRG 328° fm Kuala Terengganu.
3	Elevation / Reference temperature	20 FT (6.09 M) / 26° C
4	Geoid Undulation (ARP)	-1.267 M
5	MAG VAR / Annual change	04 min 00 sec West (2012)
6	AD Administration, address, telephone, telefax, telex, AFS	<p>Operator: Malaysia Airports Bhd. Sultan Mahmud Airport 21300 Kuala Terengganu Terengganu Darul Iman. Tel : 09 - 6673666 Fax : 09 - 6626670</p> <p>ATC Services: Department of Civil Aviation Malaysia Sultan Mahmud Airport 21300 Kuala Terengganu Terengganu Darul Iman. Tel : 09 - 6670271 Fax : 09 - 6675277 AFTN: WMKNZTZX</p>
7	Types of traffic permitted (IFR/VFR)	IFR / VFR
8	Remarks	Nil.

WMKN AD 2.3 OPERATIONAL HOURS

1	AD Administration	2300 - 1400 UTC Daily
2	Customs, immigration and agriculture (quarantine)	Customs : 2300 - 1300 UTC Immigration : By prior arrangement. Agriculture : 2300 - 1300 UTC
3	Health and sanitation	Nil
4	AIS Briefing Office	2300 - 1400 UTC
5	ATS Reporting Office (ARO)	2300 - 1400 UTC
6	MET Briefing Office	H24
7	ATS	2300 - 1400 UTC
8	Fuelling	Nil
9	Handling	2300 - 1400 UTC
10	Security	H24
11	De-icing	Nil
12	Remarks	Nil

WMKN AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo handling facilities	By arrangement with Malaysia Airlines.
2	Fuel / Oil types	Nil
3	Fuelling facilities / capacity	Nil
4	De-icing facilities	Nil
5	Hanger space available for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

WMKN AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in town.
2	Restaurants	Cafeteria in terminal building.
3	Transportation	Taxi services.
4	Medical facilities	Nil at airport. General Hospital 15 KM fm airport
5	Bank and Post Offices	In town.
6	Tourist Office	In town.
7	Remarks	Nil

WMKN AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	Required: CAT 9 Available: CAT 9 Trained personnel: 20 Max 9 per shift Min 6 per shift
2	Rescue equipment	Type of vehicle : 3 Ultra Large Foam Tender.
3	Capability for removal of disabled aircraft	Avbl on request.
4	Remarks	Nil

WMKN AD 2.7 SEASONAL AVAILABILITY - CLEARING

NOT APPLICABLE

WMKN AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength	Surface : Concrete Strength : PCN 75/R/B/X/T
2	Taxiway width, surface and strength	Width : 23 M Surface : Asphalt Strength : PCN 75/F/B/X/T
3	ACL location and elevation	Location : At apron Elevation : 5.03 M (16.5 FT)
4	VOR / INS checkpoint	VOR : At taxiway A holding position. See AD chart. Twy A : Brg 226° 30' 25" Dist. 1.8 NM INS : At aircraft parking stand Bay 1 : 052249.71N 1030618.81E Bay 2 : 052248.41N 1030617.53E Bay 3 : 052245.74N 1030616.79E Bay 3A : 052247.06N 1030614.60E Bay 4 : 052244.06N 1030615.14E Bay 4A : 052244.91N 1030613.17E
5	Remarks	General Apron opened for aircraft operations using Taxiway C and D

WMKN 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 intersection with TWY and RWY and at RWY Holding positions. Yellow taxiing guide lines at apron. Visual docking and guidance system for Bay 3 and 4. Nose wheel guidance lines for all parking bays.
2	RWY and TWY markings and LGT	Rwy : Designation numbers, Threshold, Transverse Stripe, Touchdown Zone, Aiming Point, Centerline and Turn Pad Markings. Rwy: High Intensity Edge Lights, Green Threshold Lights and Red Lgt End Lights Twy: Centerline, Side Stripe and Holding Position markings Twy: Centerline, Exit and EDGE lightings Lgt
3	Stop bars	At RWY holding position - Red
4	Remarks	Nil

WMKN AD 2.10 AERODROME OBSTACLES

IN APCH / TKOF AREAS			IN CIRCLING AREA AND AT AD		
1			2		3
RWY / AREA Affected	TYPE ELEV Markings / LGT	Coordinates	TYPE ELEV Markings / LGT	Coordinates	
a	b	c	a	b	C
22 APCH 04 TKOF	LLZ antenna 9.46m/31ft	05 23 39.76 N 103 06 53.34 E	WDI - lighted 10.3M/34FT	05 22 17.69N 103 05 38.15E 400M from threshold 04 and 90M from runway centerline right side.	-
			Glide path aerial 20.07M / 66FT. Red obstruction light.	05 22 21.28N 103 05 30.80E	-
			WDI - lighted 10.3M/34FT	05 23 18.83N 103 06 40.22E 400M from threshold 22 and 90M from runway centerline left side.	-
			Control Tower Antenna 51.22M/168FT	05 22 46.79N 103 06 22.72E 412Mm from runway centerline.	Antenna penetrates Transitional Slope by 7.6M/25FT
			TU NDB Antenna 32.68m/107ft	05 22 58.80N 103 06 24.00E 334M from runway centerline.	-
Elevation of Obstacles within 10 NM of ARP					
RWY / AREA Affected	Obstacles Type, Elevation, Marking / Lighting		Coordinates		
a	b		c		
	Aerial mast, dist 4NM fm ARP, brg 180? , hgt 713ft AMSL. Not lighted		-		
	Aerial mast, psn 5NM and brg 170? North fm ARP, hgt 1000ft AMSL. Painted and lgtd at night		-		
	Obst Twr erected at Bukit Berangan, hgt 350 FT (106.7m) AMSL. Marked and lgtd.		-		
	Apron floodlights mast erected, hgt 40 M AMSL		052213.80N 1030327.00E		
	Apron floodlights mast erected, hgt 40 M AMSL		052248.50N 1030620.20E		
	Apron floodlights mast erected, hgt 40 M AMSL		052247.80N 1030619.50E		
	Apron floodlights mast erected, hgt 40 M AMSL		052246.40N 1030618.10E		
	Apron floodlights mast erected, hgt 40 M AMSL		052244.60N 1030616.20E		
	Apron floodlights mast erected, hgt 29.6 M AMSL		052309.48N 1030610.8E		
	Apron floodlights mast erected, hgt 29.6 M AMSL		052312.72N 1030613.92E		
	Apron floodlights mast erected, hgt 29.6 M AMS		052315.6N 1030616.56E		
	Apron floodlights mast erected, hgt 29.6 M AMS		052317.82N 1030618.9		
	Telecom tower 200FT AMSL		051601N 1030607E		
	Telecom tower 250FT AMSL		051558N 1031038E		

Telecom tower 360FT AMSL	051450N 1030952.2E
Telecom tower 300FT AMSL	051727N 1030829E
Telecom tower 300FT MSL	051822N 1030802.4E
Telecom tower, Bukit Losong 300FT AMSL	051856.4N 1030623.4E
Telecom tower, Bukit Berangan 300FT AMSL	052215N 1030333E
Telecom tower, Batu Rakit 280FT AMSL	052654.2N 1030309E
Telecom tower, Merang 218FT AMSL	053105N 1025754E
Telecom tower, Primula Hotel 187FT AMSL	051949N 1030907E
Telecom tower Bukit Besar 394FT AMSL	051705N 1030742E
Telecom tower , Marang 300FT AMSL	051144.1N 1031231E
Telecom tower, Bukit Besar 963FT AMSL	051825N 1030809E
Telecom tower, Batu Rakit 282FT AMSL	052526N 1030326E
Telecom tower, Batu Buruk 170FT AMSL	051753.1N 1031045.7E
Telecom tower, Primula Park 245FT AMSL	051947N 1030130.9E
Telecom tower, Batu Buruk 203FT AMSL	051750N 1031027E
Telecom tower, Bukit Panji 300FT AMSL	051555N 1031027E
Telecom tower, Menara Permint 250FT AMSL	051951.2N 1030817.4E
Telecom tower, Bukit Panji 250FT AMSL	051555.1N 1031033.3E
Telecom tower, Batu Rakit 250FT AMSL	052558N 1030258.0E
Telecom tower, Kuala Nerus 66.46M AMSL	051954.7N 1030629.8E
Telecom tower, Bt. Payung 221.2M AMSL	051326.0N 1030630.0E
Telecom tower, Kuala Nerus 75.46M AMSL	052048.8N 1030041.0E
Telecom tower, Belara 66.96M AMSL	051916.0N 1030257.9E
Telecom tower, Bk. Khor Rusila 96M AMSL	051248.1N 1030916.1E
Telecom tower, Batu Rakit 51.17M AMSL	052815.9N 1030054.4E
Telecom tower, Bt. Panji Cendering 142M AMSL	051626.0N 1031032.0E
Telecom tower, Kg. Pantai Batu Rakit 99.2M AMSL	052659.5N 1030325.5E
Telecom tower, Kg. Manir K.terengganu 52.4M AMSL	051850.58N 1030446.17E
Telecom tower, Cabang Tiga 62.06M AMSL	051816.6N 1030738.1E
Telecom tower, Batu Enam 65M AMSL	052056.6N 1030510.3E
Telecom tower, Bt. Panji 142M AMSL	051626N 1031032.0E
Telecom tower Kg. Pantai 99.2M AMSL	052659.5N 1031025.5E
Telecom tower Kg. Manir 52.4M AMSL	051850.58N 1030446.17E
Telecom tower Kuala Nerus 47.25M AMSL	052146.87N 1030647.05E
Telecom tower Lot 858 Cabang Tiga 62.86M AMSL	051816.6N 1030738.1E
Telecom tower Lot 1903 Cendering 49.02M AMSL	051629.79N 1031015.12E
Telecom tower Lot 9733 Manir 106M AMSL	051849.0N 1030435.8E
Telecom tower Lot 10964 Kuala Nerus 58.5M AMSL	052136.1N 1030708.7E
Telecom tower Lot 595 Batu Buruk 49.5M AMSL	051726.9N 1030829.4E
Telecom tower Lot 10888 Bt. Payong 70M AMSL	051534.0N 1030550.0E
Telecom tower Lot 2086 Chendering 95M AMSL	051555.0N 1031027.0E
Telecom tower KG. Padang Midin 49M AMSL	051525.0N 1030948.0E
Telecom tower RTM Setiu 46M AMSL	051850.0N 1030808.4E
Telecom tower Kg. Atas Tol 49.70M AMSL	051534.4N 1030801.9E
Telecom tower Serada 50.60M AMSL	051540.0N 1030315.7E
Telecom tower Kuala Nenas 66.46M AMSL	051954.7N 1030629.8E
Telecom tower Kusza 46.60M AMSL	052355.3N 1030509.5E

WMKN AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	KUALA TERENGGANU / Sultan Mahmud
2	Hours of service MET Office outside hours	H24
3	Office responsible for TAF preparation Periods of validity	KL International Airport Meteorological Office 24
4	Type of landing forecast Interval of issuance	METAR/SPECI Hourly
5	Briefing / consultation provided	On request.
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	Nil
8	Supplementary equipment available for providing information	Self-Briefing Terminals (Internet)
9	ATS units provided with information	Terengganu Control Tower
10	Additional information	Tel.: 09 - 6664743 Fax: 09 - 6660304

WMKN AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designation RWY	TRUE and MAG BRG	Dimension 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
04	044.5°T 044.4°M	3480 x 45	PCN 75 F/B/X/T	05 22 11.14N 103 05 26.30E	THR: 5.9M / 19FT TDZ: 5.8M / 19FT
22	224.5°T 224.4°M	3480 x 45	PCN 75 F/B/X/T	05 23 31.87N 103 06 45.60E	THR: 6.09M / 20FT

Slope of RWY - SWY	SWY Dimensions (M)	CWY Dimensions (M)	Strips Dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
0.005%	Nil	172 X 180	3600 X 300	Provided	Nil
0.005%	Nil	60 X 180	3600 X 300	Provided	Nil

WMKN AD 2.13 DECLARED DISTANCES

RWY	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
04	3480	3652	3480	3480	RESA 240 M X 90 M
22	3480	3540	3480	3480	RESA 240 M X 90 M

WMKN 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
04	Precision Approach Cat. 1	Green	PAPI Slope 3°	Nil	Nil	White/Yellow	Red	Nil	Nil
22	Simple Approach	Green	PAPI Slope 3°	Nil	Nil	White/Yellow	Red	Red	Nil

WMKN AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN / IBN location, characteristics and hours of operation	ABN: Available on top of Control Tower flashing green/white. Sunset to 1400 UTC
2	LDI location and LGT Anemometer location and LGT	Not available. Anemometer: At wind-direction indicator (WDI) Rwy 04: 400 M from THR on right side. Lighted Rwy 22: 400 M from THR on left side. Lighted
3	TWY edge and centre line lighting	Taxiway and apron edge lights - blue Taxiway centerline lights - green
4	Secondary power supply / switch-over time	Automatic standby generator for Control Tower/Terminal building and airfield ground lighting. Switchover time: 15 seconds
5	Remarks	Stopbar lights at Twy A and B

WMKN AD 2.16 HELICOPTER LANDING AREA

NIL

WMKN AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	Kuala Terengganu CTR Commencing from 045350N 1030804E, clockwise along an arc of a circle 28 NM radius centered on VKR DVOR/DME 052138.4N 1030454.2E, to 050708N 1024104E, thence straight line to 055737N 1030656E, thence along the arc of a circle 36 NM radius centered on VKR DVOR/DME to 054331N 1033337E, thence a straight line to 045350N 1030804E.
2	Vertical limits	Ground / Sea Level to 6500 FT.
3	Airspace classification	C
4	ATS unit callsign Language(s)	Terengganu Tower English
5	Transition altitude	11,000 FT AMSL
6	Remarks	Nil

WMKN AD 2.18 ATS COMMUNICATION FACILITIES

Service Designation	ID	Frequency	Hours of operation	Remarks
1	2	3	4	5
SMC	TERENGGANU GROUND	121.6 MHZ	2300 - 1400	-
TWR	TERENGGANU TOWER	119.05 MHZ		-
APP	TERENGGANU APPROACH	123.6 MHZ 235.32 MHZ 121.5 MHZ		121.5 MHZ - EMERGENCY FREQUENCY
ATIS	TERENGGANU TERMINAL INFORMATION	126.65 MHZ		

WMKN 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
ILS/LLZ	IKTA	108.10 MHZ	H24	05 23 39.76N 103 06 53.34E	-	
GP/DME	-	334.7 MHZ CH 18X	H24	05 22 21.28N 103 05 30.79E	20M / 66FT	
L	TU	312.0 KHZ	H24	05 22 58.80N 103 06 24.00E	-	80W.
DVOR/DME	VKR	112.90 MHZ CH 76X	H24	05 21 38.43N 103 04 54.18E	11.5M /38FT	

WMKN AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Visual Circling Restriction

- a) Visual circling prohibited beyond 3nm from threshold Runway 04 due high terrain (hill elevation 1145ft) located about 4.8NM Southwest of the aerodrome.
- b) Cat C & D aircraft prohibited from visual circling Southwest of runway

2. Arrivals

- a) ATC SMC shall direct arriving aircraft to the main parking apron and assign the parking stand number. The pilot shall follow VDGS where provided or marshaller as appropriate.
- b) General aviation light aircraft shall park at the flying school light aircraft apron unless directed otherwise by ATC SMC.

3. Departures

- a) Departing IFR flights shall contact ATC SMC to obtain start-up and push back clearance. The pilot-in command and marshalls shall be responsible for the safety of aircraft with respect to vehicles, persons and obstructions during start-up and pushback.
- b) All aircraft at power-in and power-out parking bays shall taxi at minimum power until clear of the appropriate blast zone.

4. Procedures for VFR flights within the Kuala Terengganu CTR

- a) A flight plan shall be filed for the flight.
- b) ATC clearance shall be obtained from Terengganu TWR.
- c) Any deviation from ATC clearance requires prior permission.
- d) The flight shall be conducted with vertical visual reference to the ground.
- e) Two – way communication shall be established with Kuala Terengganu Approach on 123.6MHz or 235.32MHz prior to entering the Kuala Terengganu CTR.
- f) All VFR flights shall follow the established VFR Routes for entering and exiting the CTR, as shown in Visual Chart. Any deviation outside these routes requires prior ATC permission.
- g) All arriving aircraft shall hold at the designated VFR Holding area at 1000 feet and await onward ATC clearance for landing.

WMKN AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

WMKN AD 2.22 FLIGHT PROCEDURES

1. Communication failure procedures as per AIP Malaysia, ENR 1.6 - 3 Para 2.1 are to be adopted by pilots.

WMKN AD 2.23 ADDITIONAL INFORMATION

1. Kite Flying In The Vicinity Of The Airport

- 1.1 Kite flying at approach path RWY 04. Pilots to exercise caution.

2. Bird Concentration In The Vicinity Of The Airport

- 2.1 Presence of birds on runway and approach of Runway 04 and Runway 22. Pilots to exercise caution during landing and take-off.

3. List Of Way-points

- 3.1 The following list contains the way-points related to SID, RNAV STAR and IAP procedures at Kuala Terengganu / Sultan Mahmud Airport.

ID	REFERENCE FM VKG VOR/DME	LATITUDE(N)	LONGITUDE (E)	REMARKS
PALNO	RDL 268.42 / 26.43D	05 20 53.93	102 38 24.83	
LASOB	RDL 247.99 / 24.77D	05 12 18.56	102 41 53.01	
LEKOR	RDL 217.99 / 27.96D	04 59 29.71	102 47 39.23	
KALSO	RDL 224.43 / 18.97D	05 08 01.31	102 51 35.44	
ASENI	RDL 253.65 / 14.36D	05 17 34.54	102 51 05.46	
SASVU	RDL 224.41 / 12.48D	05 12 40.68	102 56 08.81	
AVNOK	RDL 224.46 / 7.67D	05 16 08.34	102 59 31.00	
OPASO	RDL 268.55 / 10.06D	05 21 22.95	102 54 48.99	
REKEB	RDL 015.36 / 14.39D	05 35 34.79	103 08 43.45	
VEDEV	RDL 044.47 / 12.57D	05 30 39.07	103 13 43.95	
LAGUB	RDL 073.63 / 14.39D	05 25 42.79	103 18 44.67	
AKNIT	RDL 189.22 / 15.00D	05 06 45.71	103 02 29.73	
GURBA	RDL 356.81 / 12.17D	05 33 51.06	103 04 13.43	
IPGAB	RDL 044.48 / 10.11D	05 28 30.38	103 12 22.62	
PUMES	RDL 092.49 / 12.11D	05 21 06.51	103 17 02.02	
BEVPI	RDL 044.50 / 7.64D	05 27 07.01	103 10 16.45	
GIVAG	RDL 224.28 / 6.74D	05 16 47.34	103 00 11.05	
VEREP	RDL 277.44 / 11.25D	05 23 06.06	102 53 43.37	
LEGEM	RDL 328.70 / 9.72D	05 29 59.18	102 59 50.37	
PUDER	RDL 224.28 / 15.01D	05 10 50.38	102 54 23.96	
XEKET	RDL 254.32 / 19.80D	05 16 15.46	102 45 47.51	
IKUKO	RDL 019.51 / 24.78D	05 45 12.00	103 13 24.00	
GUNBO	RDL 206.89 / 32.88D	04 52 10.21	102 50 00.47	
MEGUT	RDL 207 / 17D	05 06 25	102 57 10	