MALAYSIA

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CIVIL AVIATION AUTHORITY OF MALAYSIA
AERONAUTICAL INFORMATION SERVICES
AIR TRAFFIC CONTROL TOWER (TOWER WEST)
JALAN KLIA 2/4,
64000 KLIA,
SELANGOR DARUL EHSAN
MALAYSIA.

AIRAC AIP AMDT
01/25
Effective Date: 20 MAR 2025
Publication Date: 09 JAN 2025

This AIRAC AIP AMDT 01/25 contains:

GEN 0.3-1 To 3	Checklist of AIP SUP
GEN 0.4-1 To 13	Checklist of AIP Pages
GEN 3.2-3	Updating List Of Aeronautical Chart
ENR 1.8-32	Cruising Level Restriction for VFR Flight
ENR 3.1-25	Updating R461
AD 2-WMKJ-1-1	Updating AD 2.3 - Fuelling and Handling
AD 2-WMKJ-1-2	Updating Cargo - Handling Facilities Rescue And Fire Fighting Services
AD 2-WMKJ-1-3	Updating AD 2.8 - Apron, Taxiways and INS Checkpoints
AD 2-WMKJ-1-4	Updating RWY and TWY Marking and LGT
AD 2-WMKJ-1-5 To 7	Updating HTML Format
AD 2-WMKJ-1-8	Updating RWY Physical Characteristics
AD 2-WMKJ-1-10	Updating HTML Format
AD 2-WMKJ-1-12	Updating Parking Area For Schedule & Non Schedule ACFT
AD 2-WMKJ-1-13	Updating AD 2.23
AD 2-WMKJ-2-1 To 5	Updating Charts As - Per ANNEX 4‘
AD 2-WMKM-1-3	Updating AD 2.8 - Aprons and Taxiways
AD 2-WMKM-1-5 To 6	Updating HTML Format
AD 2-WMKM-2 -1 To 5	Updating Charts As - Per ANNEX 4
AD 2-WMKP-8-3	Updating Charts As - Per ANNEX 4‘
AD 2-WBGB-1-6	Updating HTML Format
AD 2-WBGJ-1-1	Updating ATS Operation Hours
AD 2-WBKK-7-14	Updating Chart Tabular
AD 2-WBKS-1-3	Updating PCR For Bay 5A
AD 2-WBKS-1-4	Updating HTML Format
AD 2-WBKS-1-5	Updating RWY Physical Characteristics
AD 2-WBKS-1-7	Updating HTML Format
AD 2-WBKS-2-1 To 5	Updating Charts As - Per ANNEX 4‘
AD 2-WBGM-1-2	Updating AD 2.8 - Apron & Taxiways
AD 2-WBGM-1-4	Updating RWY Physical Characteristics
AD 2-WBGM-2-1 To 3	Updating Charts As - Per ANNEX 4‘

DESTROY			INSERT		
GEN	0.3-1	31 DEC 2024	GEN	0.3-1	20 MAR 2025
	0.3-2	31 DEC 2024		0.3-2	20 MAR 2025
	0.3-3	31 DEC 2024		0.3-3	20 MAR 2025
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DESTROY			INSERT		
	0.4-3	31 DEC 2024		0.4-3	20 MAR 2025
	0.4-4	31 DEC 2024		0.4-4	20 MAR 2025
	0.4-5	31 DEC 2024		0.4-5	20 MAR 2025
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	0.4-7	31 DEC 2024		0.4-7	20 MAR 2025
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	0.4-13	31 DEC 2024		0.4-13	20 MAR 2025
	0.4-14	31 DEC 2024		0.4-14	20 MAR 2025
	3.2-2	15 SEP 2022		3.2-2	20 MAR 2025
	3.2-3	31 DEC 2024		3.2-3	20 MAR 2025
ENR	1.8-32	15 AUG 2023	ENR	1.8-32	20 MAR 2025
	3.1-25	10 SEP 2021		3.1-25	20 MAR 2025
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	2-WMKJ-1-2	16 JUL 2024		2-WMKJ-1-2	20 MAR 2025
	2-WMKJ-1-3	16 JUL 2024		2-WMKJ-1-3	20 MAR 2025
	2-WMKJ-1-4	31 DEC 2024		2-WMKJ-1-4	20 MAR 2025
	2-WMKJ-1-5	31 DEC 2024		2-WMKJ-1-5	20 MAR 2025
	2-WMKJ-1-6	31 DEC 2024		2-WMKJ-1-6	20 MAR 2025
	2-WMKJ-1-7	31 DEC 2024		2-WMKJ-1-7	20 MAR 2025
	2-WMKJ-1-8	16 JUL 2024		2-WMKJ-1-8	20 MAR 2025
	2-WMKJ-1-10	16 JUL 2024		2-WMKJ-1-10	20 MAR 2025
	2-WMKJ-1-12	16 JUL 2024		2-WMKJ-1-12	20 MAR 2025
	2-WMKJ-1-13	16 JUL 2024		2-WMKJ-1-13	20 MAR 2025
	2-WMKJ-1-14	31 DEC 2024		2-WMKJ-1-14	20 MAR 2025
	2-WMKJ-1-15	31 DEC 2024		2-WMKJ-1-15	20 MAR 2025
	2-WMKJ-2-1	31 DEC 2024		2-WMKJ-2-1	20 MAR 2025
	2-WMKJ-2-3	16 JUL 2024		2-WMKJ-2-3	20 MAR 2025
	2-WMKJ-2-5	16 JUL 2024		2-WMKJ-2-5	20 MAR 2025
	2-WMKM-1-3	31 DEC 2024		2-WMKM-1-3	20 MAR 2025
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	2-WMKP-8-3	31 DEC 2024		2-WMKP-8-3	20 MAR 2025

DESTROY		INSERT	
2-WBGB-1-6	28 NOV 2024	2-WBGB-1-6	20 MAR 2025
2-WBGJ-1-1	28 FEB 2023	2-WBGJ-1-1	20 MAR 2025
2-WBKK-7-14	31 DEC 2024	2-WBKK-7-14	20 MAR 2025
2-WBKS-1-3	28 NOV 2024	2-WBKS-1-3	20 MAR 2025
2-WBKS-1-4	28 NOV 2024	2-WBKS-1-4	20 MAR 2025
2-WBKS-1-5	28 NOV 2024	2-WBKS-1-5	20 MAR 2025
2-WBKS-1-7	31 DEC 2024	2-WBKS-1-7	20 MAR 2025
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2-WBGM-1-2	28 FEB 2023	2-WBGM-1-2	20 MAR 2025
2-WBGM-1-4	23 MAY 2023	2-WBGM-1-4	20 MAR 2025
2-WBGM-2-1	28 FEB 2023	2-WBGM-2-1	20 MAR 2025
2-WBGM-2-3	28 FEB 2023	2-WBGM-2-3	20 MAR 2025

1. Hand amendments

NIL

2. Record entry of AIRAC AMDT on the page GEN 0.2-1.

3. The following publications have been incorporated in this AIRAC AMDT:

AIP SUP	15/2024
AIC	NIL
NOTAM	A0079/25

- END -

GEN 0.3 RECORD OF AIP SUPPLEMENTS

NR / Year	Subject	AIP section(s) affected	Period of validity	Cancellation record
12/2023	KUALA LUMPUR INTERNATIONAL AIRPORT (WMKK) WORK IN PROGRESS	AD	09 MAR 2023 - UFN	
17/2023	KERTEH AIRPORT (WMKE) SECTION 5 ECRL PROJECT SITE CONSTRUCTION WORK	AD	16 MAR 2023 - 31 AUG 2025 EST	
24/2023	MULU AIRPORT (WBMU) RUNWAY SURFACE CRACK AND DEPRESSION	AD	22 JUN 2023 - UFN	
26/2023	PENANG INTERNATIONAL AIRPORT (WMKP) TEMPORARY OBSTACLES - CRANES OPERATION	AD	14 JUL 2023 - 17 MAY 2025	
45/2023	KUALA LUMPUR INTERNATIONAL AIRPORT (WMKK) RUNWAY CLOSURE SCHEDULE (This AIP Supplement replaces AIP Supplement 42/2023)	AD	05 DEC 2023 - UFN	
49/2023	KUALA LUMPUR INTERNATIONAL AIRPORT (WMKK) TAXIWAY CLOSE FOR AIRCRAFT LONG LAYOVER PARKING (This AIP Supplement replaces AIP Supplement 19/2023)	AD	14 DEC 2023 - UFN	
50/2023	KUANTAN AIRPORT (WMKD) TWY F CLOSED AND ATIS UNSERVICEABLE	AD	21 DEC 2023 - UFN	
51/2023	KUALA LUMPUR INTERNATIONAL AIRPORT (WMKK) HAZARDOUS WEATHER WARNING SYSTEM	AD	21 DEC 2023 - UFN	
53/2023	SUBANG AIRPORT (WMSA) WIND SHEAR DETECTION SYSTEMS U/S	AD	28 DEC 2023 - UFN	
02/2024	KOTA BHARU / SULTAN ISMAIL PETRA AIRPORT (WMKC) TEMPORARY CHANGE OF OPEARATIONS HOURS FOR AERODROME AND APPROACH RADAR SERVICES	AD	22 FEB 2024 - UFN	
03/2024	JOHOR BAHRU / SENAI INTERNATIONAL AIRPORT (WMKJ) NDB JR U/S	AD	22 FEB 2024 - UFN	
05/2024	LAWAS AIRPORT (WBGW) TEMPORARY OBSTACLES - TOWER CRANE OPERATION	AD	25 JAN 2024 - UFN	
06/2024	LAWAS AIRPORT (WBGW) TEMPORARY OBSTACLES - TOWER CRANE OPERATION	AD	25 JAN 2024 - UFN	
07/2024	KUCHING INTERNATIONAL AIRPORT (WBGG) TEMPORARY OBSTACLES - TOWER CRANE OPERATION	AD	25 JAN 2024 - UFN	
08/2024	KLUANG AIRSTRIP (WMAP) NDB AP U/S	AD	25 JAN 2024 - UFN	
15/2024	LIMBANG AIRPORT (WBGJ) TEMPORARY CHANGES OF AERODROME OPERATIONS HOURS	AD	21 MAR 2024 - UFN	
20/2024	SANDAKAN AIRPORT (WBKS) CLOSURE OF GENERAL HELIPAD	AD	18 APR 2024 - UFN	
22/2024	KOTA KINABALU INTERNATIONAL AIRPORT (WBKK) PRECISION APPROACH LIGHT RUNWAY 02, AIRCRAFT STAND TAXI LANE, AND APRON TAXIWAY AT TERMINAL 1	AD	18 APR 2024 - UFN	
23/2024	KUALA LUMPUR INTERNATIONAL AIRPORT (WMKK) WORK IN PROGRESS (This AIP Supplement replaces AIP Supplement 39/2023)	AD	21 MAR 2024 - UFN	
25/2024	IPOH/SULTAN AZLAN SHAH AIRPORT (WMKI) AERODROME OBSTACLE	AD	21 MAR 2024 - UFN	
26/2024	KUCHING INTERNATIONAL AIRPORT (WBGG) PROPOSED NEW ROYAL MALAYSIA POLICE AIR OPERATIONS FORCE BASE, SARAWAK	AD	16 MAY 2024 - 14 JUN 2025	

NR / Year	Subject	AIP section(s) affected	Period of validity	Cancellation record
28/2024	SUBANG / SULTAN ABDUL AZIZ SHAH AIRPORT (WMSA) TEMPORARY OBSTACLES - TOWER CRANE OPERATION	AD	18 APR 2024 - 15 FEB 2026	
30/2024	KUALA TERENGGANU / SULTAN MAHMUD AIRPORT (WMKN) TEMPORARY CHANGES OF AERODROME OPERATIONS HOURS	AD	13 JUN 2024 - UFN	
34/2024	LUMUT HELIPORT (WMLH) HELIPORT OBSTACLE	AD	16 MAY 2024 - UFN	
37/2024	ALOR SETAR / SULTAN ABDUL HALIM AERODROME (WMKA) UNSERVICEABLE OF TAXIWAY EDGE LIGHT	AD	11 JUL 2024 - UFN	
38/2024	KOTA KINABALU INTERNATIONAL AIRPORT (WBKK) AUTOMATED WX OBSERVING SYSTEM (AWOS) AND WIND SHEAR DETECTION SYSTEM (WSDS)	AD	11 JUL 2024 - UFN	
39/2024	MALACCA / MALACCA AIRPORT (WMKM) REVISED OF INSTRUMENT FLIGHT PROCEDURES FOR RUNWAY 03 AND RUNWAY 21	AD	11 JUL 2024 - PERM	
41/2024	KUALA LUMPUR INTERNATIONAL AIRPORT (WMKK) WORK IN PROGRESS	AD	13 JUN 2024 - UFN	
44/2024	PENANG INTERNATIONAL AIRPORT (WMKP) TAXIWAY E CLOSE FOR AIRCRAFT LONG LAYOVER PARKING	AD	05 SEP 2024 - UFN	
49/24	JOHOR BAHRU / SENAI INTERNATIONAL AIRPORT (WMKJ) TEMPORARY CHANGE OF OPERATIONS HOURS FOR AP-PROACH RADAR SERVICES.	AD	31 OCT 2024 - UFN	
50/24	OPERATIONAL TRIAL OF SATELLITE COMMUNICATION VOICE (SATVOICE) FOR ATS COMMUNICATIONS IN THE OCEANIC AIRSPACE OF THE KUALA LUMPUR FLIGHT INFORMATION REGION.	ENR	31 OCT 2024 - 30 APR 2025	
51/24	KUANTAN AIRPORT (WMKD) TEMPORARY OBSTACLES – CRAWLER CRANE OPERATION	AD	03 OCT 2024 - 22 JUN 2025 EST	
53/24	LIMBANG AIRPORT (WBGJ) WORK IN PROGRESS	AD	03 OCT 2024 - UFN	
54/24	LIMBANG AIRPORT (WBGJ) WORK IN PROGRESS	AD	03 OCT 2024 - UFN	
55/24	KUCHING INTERNATIONAL AIRPORT (WBGG) TEMPORARY OBSTACLES - TOWER CRANE OPERATION	AD	03 OCT 2024 - UFN	
59/24	KUALA LUMPUR INTERNATIONAL AIRPORT (WMKK) WORK IN PROGRESS	AD	28 NOV 2024 - 31 MAR 2025	
60/24	KUANTAN AIRPORT (WMKD) DVORTAC VKN 113.7 MHZ CH84X, DME-PART AND TACAN-PART U/S (This AIRAC AIP Supplement replaces AIRAC AIP Supplement 42/2024)	AD	28 NOV 2024 - UFN	
61/24	KUCHING INTERNATIONAL AIRPORT (WBGG) RUNWAY GUARD LIGHT UNSERVICEABLE	AD	28 NOV 2024 - 27 MAY 2025	
62/24	BINTULU AIRPORT (WBGB) OBSTACLE	AD	28 NOV 2024 - UFN	
63/24	KOTA BHARU / SULTAN ISMAIL PETRA AIRPORT (WMKC) UPGRADING WORKS (This AIRAC AIP Supplement replaces AIRAC AIP Supplement 35/2024)	AD	26 DEC 2024 - 06 MAY 2025	
64/24	SUBANG / SULTAN ABDUL AZIZ SHAH AERODROME (WMSA) REGENERATION PROJECT PHASE 2 ZONE 3 (This AIRAC AIP Supplement replaces AIRAC AIP Supplement 40/2024)	AD	26 DEC 2024 - 01 OCT 2034 EST	

NR / Year	Subject	AIP section(s) affected	Period of validity	Cancellation record
67/24	KUALA LUMPUR INTERNATIONAL AIRPORT (WMKK) STOPBAR LIGHTS AND LEAD IN LIGHT TAXIWAY A1-A11, C1-C11, P1-P4, Q5-Q7 AND Y1-Y9	AD	26 DEC 2024 - UFN	
68/24	LABUAN AIRPORT (WBKL) ILS UNSERVICEABLE	AD	26 DEC 2024 - UFN	
69/24	KUALA LUMPUR INTERNATIONAL AIRPORT (WMKK) TRIAL IMPLEMENTATION OF SIMULTANEOUS INDEPENDENT PARALLEL APPROACHES BASED ON THE DIRECTION OF FLIGHTS AT KUALA LUMPUR INTERNATIONAL AIRPORT (KLIA)	AD	20 DEC 2024 - 30 JUN 2025	
70/24	KUALA LUMPUR INTERNATIONAL AIRPORT (WMKK) WIND DIRECTION INDICATOR (WDI) RWY 15	AD	28 NOV 2024 - UFN	
71/24	PENANG INTERNATIONAL AIRPORT (WMKP) RUNWAY CLOSURE SCHEDULE (This AIP Supplement replaces AIRAC AIP Supplement 43/2024)	AD	28 NOV 2024 - UFN	
72/24	IPOH / SULTAN AZLAN SHAH AIRPORT (WMKI) TEMPORARY CHANGES OF AERODROME OPERATION HOURS (This AIP Supplement replaces AIRAC AIP Supplement 47/2023)	AD	26 DEC 2024 - UFN	
01/25	KUCHING INTERNATIONAL AIRPORT (WBGG) RUNWAY CLOSURE SCHEDULE	AD	20 FEB 2025 - UFN	
02/25	KUALA LUMPUR INTERNATIONAL AIRPORT (WMKK) IMPLEMENTATION OF DEPARTURE CLEARANCE (DCL) VIA DATA LINK ON SELECTED ROUTES (This AIRAC AIP Supplement replaces AIRAC AIP Supplement 65/24)	AD	20 MAR 2025 - PERM	
03/25	KUALA LUMPUR INTERNATIONAL AIRPORT (WMKK) TRIAL IMPLEMENTATION OF SIMULTANEOUS INDEPENDENT PARALLEL DEPARTURE ON TRIPLE RUNWAY OPERATION AT KUALA LUMPUR INTERNATIONAL AIRPORT (KLIA)	AD	20 FEB 2025 - 31 AUG 2025	

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GEN 0.4 CHECKLIST OF AIP PAGES

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PART 1 - GENERAL (GEN)	
GEN 0.	
0.1-1	12 AUG 2021
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0.1-3	31 DEC 2024
0.1-4	25 MAR 2021
0.2-1	24 FEB 2022
0.2-2	16 AUG 2018
0.3-1	20 MAR 2025*
0.3-2	20 MAR 2025*
0.3-3	20 MAR 2025*
0.3-4	20 MAR 2025*
0.4-1	20 MAR 2025*
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0.4-14	20 MAR 2025*
0.5-1	16 AUG 2018
0.5-2	16 AUG 2018
0.6-1	16 AUG 2018
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GEN 1.	
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1.1-3	31 DEC 2024
1.1-4	31 DEC 2024
1.1-5	31 DEC 2024
1.1-6	31 DEC 2024
1.2-1	26 MAY 2022
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1.2-4	08 DEC 2022
1.3-1	16 AUG 2018
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1.4-1	13 AUG 2020
1.4-2	16 AUG 2018
1.4-3	16 AUG 2018
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1.6-1	13 AUG 2020
1.6-2	16 AUG 2018
1.7-1	20 MAY 2021
1.7-2	25 MAR 2021
1.7-3	20 MAY 2021
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1.7-5	29 OCT 2021
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GEN 2.	
2.1-1	16 AUG 2018
2.1-2	31 DEC 2024
2.2-1	25 MAR 2021
2.2-2	25 MAR 2021
2.2-3	25 MAR 2021
2.2-4	25 MAR 2021
2.2-5	25 MAR 2021
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2.2-7	05 NOV 2020
2.2-8	16 AUG 2018
2.2-9	20 MAY 2021
2.2-10	16 AUG 2018
2.3-1	16 AUG 2018
2.3-2	16 AUG 2018
2.3-3	20 MAY 2021
2.3-4	16 AUG 2018
2.3-5	16 AUG 2018
2.3-6	16 AUG 2018
2.3-7	20 MAY 2021
2.3-8	16 AUG 2018
2.4-1	15 AUG 2019
2.4-2	15 AUG 2019
2.4-3	15 AUG 2019
2.4-4	16 AUG 2018
2.5-1	08 OCT 2024
2.5-2	16 AUG 2018
2.6-1	25 MAR 2021
2.6-2	16 AUG 2018
2.7-1	23 APR 2024
2.7-2	23 APR 2024
2.7-3	23 APR 2024
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GEN 3.	
3.1-1	31 DEC 2024
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3.1-3	31 DEC 2024
3.1-4	31 DEC 2024
3.2-1	31 DEC 2024
3.2-2	20 MAR 2025*
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3.5-1	25 MAR 2021
3.5-2	28 MAR 2019
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3.5-5	20 MAY 2021
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3.6-6	31 DEC 2024
3.6-7	31 DEC 2024
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2-WBGL-1-3	26 MAR 2020
2-WBGL-1-4	26 MAR 2020
2-WBGL-1-5	26 MAR 2020
2-WBGL-1-6	26 MAR 2020
2-WBGL-2-1	26 MAR 2020
2-WBGL-2-2	26 MAR 2020
2-WBGL-2-3	26 MAR 2020
2-WBGL-2-4	26 MAR 2020

Page	Date
MARUDI	
2-WBGM-1-1	23 MAY 2023
2-WBGM-1-2	20 MAR 2025*
2-WBGM-1-3	31 DEC 2024
2-WBGM-1-4	20 MAR 2025*
2-WBGM-1-5	31 DEC 2024
2-WBGM-1-6	31 DEC 2024
2-WBGM-1-7	28 FEB 2023
2-WBGM-1-8	28 FEB 2023
2-WBGM-2-1	20 MAR 2025*
2-WBGM-2-2	28 MAR 2019
2-WBGM-2-3	20 MAR 2025*
2-WBGM-2-4	28 MAR 2019
BAKELALAN	
2-WBGQ-1-1	26 MAR 2020
2-WBGQ-1-2	26 MAR 2020
2-WBGQ-1-3	26 MAR 2020
2-WBGQ-1-4	26 MAR 2020
2-WBGQ-1-5	26 MAR 2020
2-WBGQ-1-6	26 MAR 2020
2-WBGQ-2-1	26 MAR 2020
2-WBGQ-2-2	26 MAR 2020
2-WBGQ-2-3	26 MAR 2020
2-WBGQ-2-4	26 MAR 2020
LAWAS	
2-WBGW-1-1	31 DEC 2024
2-WBGW-1-2	08 OCT 2024
2-WBGW-1-3	15 SEP 2022
2-WBGW-1-4	08 OCT 2024
2-WBGW-1-5	08 OCT 2024
2-WBGW-1-6	31 DEC 2024
2-WBGW-2-1	08 OCT 2024
2-WBGW-2-2	28 MAR 2019
2-WBGW-2-3	08 OCT 2024
2-WBGW-2-4	28 MAR 2019
BARIO	
2-WBGZ-1-1	26 MAR 2020
2-WBGZ-1-2	26 MAR 2020
2-WBGZ-1-3	26 MAR 2020
2-WBGZ-1-4	26 MAR 2020
2-WBGZ-1-5	26 MAR 2020
2-WBGZ-1-6	26 MAR 2020
2-WBGZ-2-1	26 MAR 2020
2-WBGZ-2-2	26 MAR 2020
2-WBGZ-2-3	26 MAR 2020
2-WBGZ-2-4	26 MAR 2020
KUDAT	
2-WBKT-1-1	16 AUG 2018
2-WBKT-1-2	16 AUG 2018
2-WBKT-1-3	28 MAR 2019
2-WBKT-1-4	28 MAR 2019
2-WBKT-1-5	25 MAR 2021
2-WBKT-1-6	28 MAR 2019
2-WBKT-2-1	05 NOV 2020
2-WBKT-2-2	28 MAR 2019
2-WBKT-2-3	05 NOV 2020
2-WBKT-2-4	28 MAR 2019
TANJUNG MANIS	
2-WBTM-1-1	28 FEB 2023
2-WBTM-1-2	28 FEB 2023
2-WBTM-1-3	28 FEB 2023
2-WBTM-1-4	28 FEB 2023
2-WBTM-1-5	28 FEB 2023
2-WBTM-1-6	28 FEB 2023
2-WBTM-2-1	28 FEB 2023
2-WBTM-2-2	08 SEP 2022
AD 4.	
4.1-1	08 DEC 2022
4.1-2	08 DEC 2022
4.1-3	08 DEC 2022
4.1-4	08 DEC 2022
4.1-5	15 AUG 2023
4.1-6	08 DEC 2022

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GEN 3.2 AERONAUTICAL CHARTS

3.2.1 RESPONSIBLE SERVICES

Civil Aviation Authority Of Malaysia provides a range of aeronautical charts for use by all types of civil aviation. The Aeronautical Information Services produces some of the charts which are part of the AIP.

The charts published in the AIP are produced in accordance with the provisions contained in the ICAO documents listed below:

Annex 4 - Aeronautical Charts.
DOC 8168 OPS/611 - Aircraft Operations Vol ll.
DOC 8697 AN/889 - Aeronautical Chart Manual.

3.2.2 MAINTENANCE OF CHARTS

3.2.2.1 The Aeronautical charts included in the AIP are kept up to date by means of necessary replacement sheets. Significant amendments or revisions in aeronautical information to other aeronautical charts are also included in the replacement sheets. Revision of the aeronautical information on all charts is constantly in progress and amended reprints are published as regularly as production resources permit.

3.2.2.2 Items of information found to be incorrect after publication will be corrected by NOTAM if they are of operational significance.

3.2.3 Purchase Arrangements

The charts as listed under paragraph 3.2.5 of this subsection may be obtained from:

Aeronautical Information Services,
Civil Aviation Authority Of Malaysia (CAAM)
Air Traffic Control Tower (Tower West)
Jalan KLIA 2/4,
64000 KLIA,
Selangor Darul Ehsan,
Malaysia

TEL:	+603 - 8778 4106
e-mail:	ais@caam.gov.my
URL:	https://www.caam.gov.my
	https://aip.caam.gov.my

3.2.4 Aeronautical Chart Series Available

3.2.4.1 The following series of aeronautical charts are produced:

a) Aerodrome Chart - ICAO
b) Aerodrome Obstacle Chart - ICAO Type A (for each runway)
c) En-Route Chart - ICAO
d) Standard Departure Chart - Instrument (SID) - ICAO
e) Standard Arrival Chart - Instrument (STAR) - ICAO
f) Instrument Approach Chart - ICAO (for each runway and procedure type)
g) Precision Approach Terrain Chart - ICAO
h) World Aeronautical Chart - ICAO

The charts currently available are listed under para 3.2.5 of this subsection.

3.2.4.2 General Description Of Each Series

a) **Aerodrome Chart - ICAO**

The chart provides flight crews with information that will facilitate the ground movement of aircraft to and from the runways and apron and to portray the major flight operation facilities at the aerodrome.

b) **Aerodrome Obstacle Chart - ICAO Type A (operating limitations)**

This chart contains detailed information on obstacles in the take-off flight path areas of aerodrome. It is shown in plan and profile view. This obstacle information, provides the data necessary to enable an operator to comply with the operating limitations of ICAO Annex 6, parts I and ll, Chapter 5.

c) **En-Route Chart - ICAO**

This chart is produced for the entire Kuala Lumpur and Kota Kinabalu FIR. The aeronautical data include all aerodromes, prohibited, restricted and danger area and the air traffic services system in detail. The chart provides the flight crew with information that will facilitate navigation along ATS routes in compliance with air traffic services procedures.

d) **Standard Departure Chart - Instrument (SID) - ICAO**

This chart is produced whenever a standard departure route - instrument has been established and cannot be shown with sufficient clarity on the Area Chart - ICAO.

The aeronautical data shown include the aerodrome of departure, aerodrome(s) which effect the designated standard departure route - instrument, prohibited, restricted and danger areas and the air traffic services system. This chart provides the flight crew with information that will enable them to comply with the designated standard departure route - instrument from the take-off phase to the en-route phase.

e) **Standard Arrival Chart - Instrument (STAR) - ICAO**

This chart is produced whenever a standard arrival route - instrument has been established and cannot be shown with sufficient clarity on the Area Chart - ICAO.

The aeronautical data shown include the aerodrome of landing, aerodrome(s) which effect the designated standard arrival route - instrument, prohibited, restricted and danger areas and the air traffic services system. This chart provides the flight crew with information that will enable them to comply with the designated standard arrival route - instrument from the en-route phase to the approach phase.

f) **Instrument Approach Chart - ICAO (for each runway and procedure type)**

This chart is produced for all aerodromes used by civil aviation where instrument approach procedures have been established. A separate Instrument Approach Chart - ICAO has been provided for each approach procedure.

The aeronautical data shown include information on aerodromes, prohibited, restricted and danger areas, radio communication facilities and navigational aids, minimum sector altitude, procedure track portrayed in plan and profile view, aerodrome operating minima, etc.

This chart provides the flight crew with information that will enable them to perform an approved instrument approach procedure to the runway of intended landing including the missed approach procedure and where applicable, associated holding patterns.

g) **Precision Approach Terrain Chart - ICAO**

This chart is produced for all runways served by Category II precision approaches.

The chart provides aircraft operating agencies with information to assess the effect of terrain in the approach path on decision height determination by the use of radar altimeter.

h) **World Aeronautical Chart - ICAO 1:1 000 000**

This series is constructed on Lambert Conformal Conic Projection with two standard parallels at 0 deg 40 min and 3 deg 20 min.The spheroid is Word Geodetic System 1984 (WGS84).The aeronautical data shown have been kept to a minimum, consistent with the use of the chart for visual air navigation.It includes a selection of aerodromes, significant obstacles, elements of the ATS system, prohibited, restricted and danger areas, and radio navigation aids.The chart provides information to satisfy visual air navigation and is also used as a pre-flight planning chart.

3.2.5 List of Aeronautical Charts Available

3.2.5.1 Aerodrome Chart - ICAO (AC)

Title of series	Name of Chart	Reference	Date
Aerodrome Charts - ICAO (AC)	ALOR SETAR	AD 2-WMKA-2-1	28 NOV 2024
	BINTULU	AD 2-WBGB-2-1	28 NOV 2024
	GONG KEDAK	AD 2-WMGK-2-1	29 OCT 2021
	IPOH	AD 2-WMKI-2-1	28 NOV 2024
	JOHOR BAHRU	AD 2-WMKJ-2-1	20 MAC 2025
	KERTEH	AD 2-WMKE-2-1	26 MAR 2020
	KL INTERNATIONAL	AD 2-WMKK-2-1	31 DEC 2024
	KOTA BHARU	AD 2-WMKC-2-1	28 NOV 2024
	KOTA KINABALU	AD 2-WBKK-2-1	28 NOV 2024
	KUALA TERENGGANU	AD 2-WMKN-2-1	28 NOV 2024
	KUANTAN	AD 2-WMKD-2-1	28 NOV 2024
	KUCHING	AD 2-WBGG-2-1	28 NOV 2024
	KUDAT	AD 2-WBKT-2-1	05 NOV 2020
	LAHAD DATU	AD 2-WBKD-2-1	28 NOV 2024
	LABUAN	AD 2-WBKL-2-1	28 NOV 2024
	LANGKAWI	AD 2-WMKL-2-1	28 NOV 2024
	LAWAS	AD 2-WBGW-2-1	08 OCT 2024
	LIMBANG	AD 2-WBGJ-2-1	31 DEC 2024
	MALACCA	AD 2-WMKM-2-1	20 MAC 2025
	MARUDI	AD 2-WBGM-2-1	20 MAC 2025
	MIRI	AD 2-WBGR-2-1	28 NOV 2024
	MUKAH	AD 2-WBGK-2-1	28 NOV 2024
	PENANG	AD 2-WMKP-2-1	28 NOV 2024
	PULAU REDANG	AD 2-WMPR-2-1	25 MAR 2021
	PULAU TIOMAN	AD 2-WMBT-2-1	15 SEP 2022
	SANDAKAN	AD 2-WBKS-2-1	20 MAC 2025
	SIBU	AD 2-WBGS-2-1	28 NOV 2024
	SUBANG	AD 2-WMSA-2-1	28 NOV 2024
	TAWAU	AD 2-WBKW-2-1	28 NOV 2024
	MULU	AD 2-WBMU-2-1	28 NOV 2024
	PULAU PANGKOR	AD 2-WMPA-2-1	08 SEP 2022
	LONG AKAH	AD 2-WBGA-2-1	26 MAR 2020
	LONG LELLANG	AD 2-WBGF-2-1	26 MAR 2020
	LONG SERIDAN	AD 2-WBGI-2-1	26 MAR 2020
	LONG BANGA	AD 2-WBGL-2-1	26 MAR 2020
	BAKELALAN	AD 2-WBGQ-2-1	26 MAR 2020
	BARIO	AD 2-WBGZ-2-1	26 MAR 2020
	TANJUNG MANIS	AD 2-WBTM-2-1	28 FEB 2023

3.2.5.2 Aerodrome Obstacle Charts - ICAO - TYPE A (AOC)

Title of series	Name of Chart	Reference	Date
Aerodrome Obstacle Charts - ICAO - TYPE A (AOC)	BINTULU	AD 2-WBGB-3-1	26 MAR 2020
	JOHOR BAHRU	AD 2-WMKJ-3-1	28 MAR 2019
	KL INTERNATIONAL (RWY 14L/32R)	AD 2-WMKK-3-1	28 MAR 2019
	KL INTERNATIONAL (RWY 14R/32L)	AD 2-WMKK-3-3	28 MAR 2019
	KL INTERNATIONAL (RWY 15/33)	AD 2-WMKK-3-5	07 NOV 2019
	KOTA BHARU	AD 2-WMKC-3-1	13 AUG 2020
	KOTA KINABALU	AD 2-WBKK-3-1	03 OCT 2024
	KUCHING	AD 2-WBGG-3-1	20 MAY 2021
	LANGKAWI	AD 2-WMKL-3-1	07 NOV 2019
	LIMBANG	AD 2-WBGJ-3-1	16 AUG 2018
	LABUAN	AD 2-WBKL-3-1	16 AUG 2018
	MALACCA	AD 2-WMKM-3-1	28 MAR 2019
	MIRI	AD 2-WBGR-3-1	08 SEP 2022
	PENANG	AD 2-WMKP-3-1	25 MAR 2021
	SUBANG	AD 2-WMSA-3-1	28 MAR 2019
	ALOR SETAR	AD 2-WMKA-3-1	31 DEC 2024
	TAWAU	AD 2-WBKW-3-1	07 NOV 2019
	SIBU	AD 2-WBGS-3-1	28 MAR 2019
	KUALA TERENGGANU	AD 2-WMKN-3-1	16 AUG 2018
	KERTEH	AD 2-WMKE-3-1	16 AUG 2018
	MULU	AD 2-WBMU-3-1	13 AUG 2020

3.2.5.3 Precision Approach Terrain Charts - ICAO

Title of series	Name of Chart	Reference	Date
Precision Approach Terrain Chart - ICAO	RWY 14L	AD 2-WMKK-5-1	23 MAY 2019
	RWY 14R	AD 2-WMKK-5-3	23 MAY 2019
	RWY 32L	AD 2-WMKK-5-5	23 MAY 2019
	RWY 32R	AD 2-WMKK-5-7	23 MAY 2019

3.2.5.4 Standard Departure Chart - Instrument - ICAO (SID)

Title of series	Name of Chart	Reference	Date
Standard Departure Chart - Instrument - ICAO -SID	**ALOR SETAR**		
	RWY 22 TAMOS 1D RIGTO 1D DUBAX 1D SAGEL 1D GUTEB 1D OMBUL 1D AKMIS 1D	AD 2-WMKA-6-1	16 JUL 2024
	RWY 22 RNAV (GNSS) TAMOS 1B RIGTO 1B DUBAX 1B SAGEL 1B GUTEB 1B OMBUL 1B AKMIS 1B	AD 2-WMKA-6-3	16 JUL 2024
	BINTULU		
	RWY 17 RNAV EKETO 1C DUNAS IC NOKER 1C BENLI 1C BASUV 1C ADGAB 1C	AD 2-WBGB-6-1	01 DEC 2022
	RWY 17 ADGAB 3F EKETO 3F BASUV 3F DUNAS 3F BENLI 3F NOKER 3F	AD 2-WBGB-6-5	01 DEC 2022
	RWY 35 RNAV EKETO 1D DUNAS 1D NOKER 1D BENLI 1D BASUV 1D	AD 2-WBGB-6-7	01 DEC 2022
	RWY 35 ADGAB 3E EKETO 3E BASUV 3E NU-NAS 3E BENLI 3E NAKER 3E	AD 2-WBGB-6-11	01 DEC 2022

Adjacent FIR	To	From Airways or Waypoints	FPL Route
Singapore FIR	Bangkok FIR	TIDAR	M904
		Y339	AROSO Y513 KALIL Y501 RINBA Y502 DUBAX
			AROSO Y513 KALIL Y501 RIGTO
			AROSO Y513 KALIL Y501 RINBA R325 VAS A457 TAMOS
		B469	VMR B469 VPK M751 VKB M751 GOLUD
			VMR B469 VPK M751 VKB M626 KADAX
			VMR B469 VPK M751 VKB M644 ABTOK
			VMR B469 VPK M751 VKB A334 PASVA
	Chennai FIR	Y339	AROSO Y513 KALIL Y504 GUNIP N571 IGOGU
			AROSO Y513 KALIL Y504 GUNIP N571 VAMPI Y338 LEKIR L510 EMRAN
			AROSO Y513 KALIL Y501 RINBA Y503 VPL P628 IGREX
			AROSO Y513 KALIL Y504 BILIK G582 PUGER P574 NOPEK
		SABKA	A457 SUKAT B466 ANOKO (FOR NON-RNAV FLT ONLY)
	Jakarta FIR	Y339	AROSO Y513 KALIL Y504 BILIK G582 PUGER R461
	Ho Chi Minh FIR	ENREP	IGARI N891
Beyond Singapore FIR	Bangkok FIR	TIDAR	M904
		G579	VJB Y342 AROSO Y513 KALIL Y501 RINBA Y502 DUBAX
			VJB Y342 AROSO Y513 KALIL Y501 RIGTO
			VJB Y342 AROSO Y513 KALIL Y501 RINBA R325 VAS A457 TAMOS
		B469	VPK M751 VKB M751 GOLUD
			VPK M751 VKB M626 KADAX
			VPK M751 VKB M644 ABTOK
			VPK M751 VKB A334 PASVA
	Chennai FIR	G579	VJB Y342 AROSO Y513 KALIL Y504 GUNIP N571 IGOGU
			VJB Y342 AROSO Y513 KALIL Y504 GUNIP N571 VAMPI Y338 LEKIR L510 EMRAN
			VJB Y342 AROSO Y513 KALIL Y501 RINBA Y503 VPL P628 IGREX
			VJB Y342 AROSO Y513 KALIL Y504 BILIK G582 PUGER P574 NOPEK
			VJB A457 SUKAT B466 ANOKO (FOR NON-RNAV FLT ONLY)
	Jakarta FIR	G579	VJB Y342 AROSO Y513 KALIL Y504 BILIK G582 PUGER R461
	Ho Chi Minh FIR	ENREP	N891 IGARI

1.8.7 Cruising Level Restrictions

1.8.7.1 Flights on following sector and routes shall observe the below specified cruising level restrictions.

1. WMKK A457 WMKP : FL320 Or Below
2. WMKK A457 WMKA : FL320 Or Below
3. WMKK A457 VPG/ W525 Or B579 WMKL : FL320 Or Below
4. WMKP W530 VIH A464 WMKK : FL310 Or Below
5. WMKL W531 VIH A464 WMKK : FL310 Or Below

1.8.7.2 Given the complexity of airspace structure in the Kuala Lumpur TMA, separation requirements between VFR and IFR class C airspace, density of air traffic as well as the controller's workload, applicable procedures for VFR flights transiting through Kuala Lumpur TMA are as follows:

1. VFR aircraft shall not submit flight plan transiting Kuala Lumpur TMA from 3000 ft to FL 145.
2. VFR aircraft transiting Kuala Lumpur TMA below 3000 ft shall file flight plan according to the VFR lanes.

1.8.8 Flight planning route for Non RNAV aircraft.

From	To	FPL Route
WMKA / WMKL / WMKP / WMKI	WMKM / WMKJ	A464
WMKM / WMKJ	WMKA / WMKL / WMKP / WMKI	A457
WMKC / WMKN / WMPR / WMKE / WMKD	WMKJ / WMBT	W540 VPK B469 (BELOW FL235)
WMKJ / WMBT	WMKC / WMKN / WMPR / WMKE / WMKD	B469 VPK W540 (BELOW FL235)

1.8.9 Flight Planning Requirement for Aircraft Operating in Kota Kinabalu FIR

1.8.9.1 Flights Departing And Landing At Airports Within Kota Kinabalu FIR

From	To	FPL Route
WBGB	WBGG	G460 VKG
	WBGM	W422 VMY DCT WBGM
	WBGR	W422 VMY
	WBGS	G460 VSI
	WBGW	W422 VMY DCT WBGW
	WBKD	G460 BRU M646 VJN W460 LHD
	WBKK	G460 BRU M646 VJN
	WBKL	G460 VLB
	WBKS	G460 BRU W461 VSN
		G460 BRU M646 VJN A341 VSN (FL165 AND ABOVE)
	WBKT	G460 BRU M646 VJN W420 KABDU DCT WBKT
	WBKW	G460 BRU W453 LATIL W441 VTW
	WBGJ	W422 VMY W450 VLG
	WBMU	W448 VZU
	WBSB	G460 BRU

Route designator (RNP/RNAV[1]) Name of significant points Coordinates	Track MAG VOR RDL DIST (COP)	Upper limits / Lower limits or Minimum altitude[2] Airspace classification	Lateral limits NM	Direction of cruising levels Odd	Direction of cruising levels Even	Remarks Controlling unit channel Logon address
1	2	3	4	5		6
R461						
▲ KUALA LUMPUR DVORDME (VKL)						
024328N 1014417E	295° / 115°	FL 460 / 6 500 FT MSL	20	↓		**Controlling Authority:**
VIDEX	27.5 NM	Class A				Above FL 300 KUALA LUMPUR RADAR FREQ: (PRI)120.575 MHZ (SRY)132.55 MHZ FL 300 and below: KUALA LUMPUR RADAR FREQ: (PRI)132.80 MHZ (SRY)132.55 MHZ
△ 025507N 1011923E	295° / 115°	7 000 FT				
INTOT	12.4 NM					
△ 030025N 1010807E	295° / 115°					
VESIS	10.4 NM					
△ 030446N 1005841E	295° / 115°					
PUGER (FIR BDRY)	45.4 NM			↑		For Air Traffic Management purposes, flights inbound to WMKK / WMSA are required to cross PUGER at FL310.
▲ 032359N 1001731E						

1.RNP = required navigation performance specification; RNAV = area navigation specification.
2.MEA = minimum en-route altitude; MOCA = minimum obstacle clearance altitude.
3.RNP 4 represents aircraft and operating requirements, including a 7.4 KM (4 NM) lateral performance, with on-board performance monitoring and alerting that are detailed in the Performance-based Navigation (PBN) Manual (Doc 9613).

Route designator (RNP/RNAV[1]) Name of significant points Coordinates	Track MAG VOR RDL DIST (COP)	Upper limits / Lower limits or Minimum altitude[2] Airspace classification	Lateral limits NM	Direction of cruising levels Odd / Even	Remarks Controlling unit channel Logon address
1	**2**	**3**	**4**	**5**	**6**
R467					
KUALA LUMPUR DVOR/DME (VKL)					
▲ 024328N 1014417E	309° / 129°	FL 460 / 6 500 FT AMSL	20	↓	Flight planning:
AGOSA	40.0 NM	Class A			From Singapore/Johor Bahru - A457 or A464, thence R467 and B466.
△ 030841N 1011309E	309° / 129°	7 000 FT			**Controlling Authority:**
GOBAS	20.0 NM				KUALA LUMPUR ACC FREQ: (PRI) 132.8 MHZ (SRY) 133.55 MHZ Within Kuala Lumpur TMA
△ 032123N 1005722E	308° / 128°	FL 460 / 8 500 FT AMSL			
	109.0 NM	Class A		↑	Lumpur Approach FREQ: 119.450 MHZ
		9 000 FT			
GUNIP					
▲ 042953N 0993150E					

1.RNP = required navigation performance specification; RNAV = area navigation specification.
2.MEA = minimum en-route altitude; MOCA = minimum obstacle clearance altitude.
3.RNP 4 represents aircraft and operating requirements, including a 7.4 KM (4 NM) lateral performance, with on-board performance monitoring and alerting that are detailed in the Performance-based Navigation (PBN) Manual (Doc 9613).

WMKJ AD 2.1 AERODROME LOCATION INDICATOR AND NAME

WMKJ - JOHOR BAHRU/SENAI INTERNATIONAL

WMKJ AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	013826N 1034013E In front of AFRS station.
2	Direction and distance from (city)	Bearing 332° 54' 38" / 22.95 KM from Johor Bahru (Causeway)
3	Elevation/Reference temperature	41 M (135 FT) / 32° C
4	Geoid undulation at AD ELEV PSN	8 M
5	MAG VAR/Annual change	0° E (2020) / 0.003° decreasing
6	AD operator, address, telephone, telefax, e-mail address, AFS and website address	Operator: Senai Airport Terminal Services Sdn Bhd, Senai International Airport, 81250 Johor Bahru Johor Darul Takzim TEL: +607 - 5994500 Telefax: +607 - 5996624 e-mail: adadmin@senaiairport.com ATC Services: Civil Aviation Authority Of Malaysia Senai International Airport 81250 Johor Bahru Johor Darul Takzim TEL: +607 - 5994789 (Office) Telefax: +607 - 5994280 TEL: +607 - 5982802 (Tower) Telefax: +607 - 5982801 AFS: WMKJZTZX e-mail: dcajohor@caam.gov.my
7	Types of traffic permitted (IFR/VFR)	IFR / VFR
8	Remarks	NIL

WMKJ AD 2.3 OPERATIONAL HOURS

1	AD Operator	2230 - 1600
2	Customs and immigration	2230 - 1600
3	Health and sanitation	MON - FRI: 0000 - 0900 Sat, Sun and Public Holidays: Closed
4	AIS Briefing Office	2230 - 1600
5	ATS Reporting Office (ARO)	2330 - 0930
6	MET Briefing Office	H24
7	ATS	2230 - 1600
8	Fuelling	2230 - 1600
9	Handling	By prior arrangement with Senai Airport Terminal Services Ground Handling. TEL: +607 - 5994500 ext. 1101/1102/1113 Telefax:+607 - 59940452 SITA: JHBFFXH e-mail: cargo1@senaiairport.com
10	Security	H24
11	De-icing	NIL
12	Remarks	Outside operation hours - Prior Approval required before 0800.

WMKJ AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	By prior arrangement with Senai Airport Terminal Services Ground Handling. TEL: +607 - 5994500 ext. 1101/1102/1113 Telefax:+607 - 59940452 SITA: JHBFFXH e-mail: cargo1@senaiairport.com
2	Fuel/oil types	Jet A1, AVGAS 100
3	Fuelling facilities/capacity	Prior arrangement with PETRONAS TEL : +607 - 5998977 / 5991289 Telefax : +607 - 5982911 Trailer - 2 x 45,000 Litres Bowser - 2 x 18,000 Litres Storage Tanks - 900,000 Litres AVGAS - 2,000 Litres
4	De-icing facilities	NIL
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	Commercial aircraft code C aircraft
7	Remarks	Senai Airport Terminal Services Ground Handling Services available H24 by prior arrangement with aerodrome administration.

WMKJ AD 2.5 PASSENGER FACILITIES

1	Hotels	First class hotel near airport.
2	Restaurants	Restaurant in terminal building.
3	Transportation	Taxi and bus service to Johor Bahru / Singapore.
4	Medical facilities	District Hospital - 10 KM fm airport.
5	Bank and Post Office	ATM, Bureau De Change and Post Office in terminal building.
6	Tourist Office	NIL
7	Remarks	NIL

WMKJ AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 8
2	Rescue equipment	Adequately provided as recommended by ICAO.
3	Capability for removal of disabled aircraft	With arrangement with the respective airline and ground handler. a) Largest aircraft - A320 / B738
4	Remarks	All Airport Fire & Rescue Service (AFRS) personnel are to be well trained in rescue and firefighting as well as medical first aid.

WMKJ AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Types of clearing equipment	-
2	Clearance priorities	-
3	Remarks	-

WMKJ AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	Main Apron: Bay 1, 2, 3, 4 Surface: Concrete Strength: PCN 109 / R / D / W / T Bay 5, 6, 7 Surface: Asphalt Strength: PCN 70 / F / C / X / T Bay 8 Surface: Concrete Strength: PCN 80 / R / B / W / T Cargo Apron: Bay 21, 22, 23, 24, 25, 26 & 27 Surface: Concrete Strength: PCN 108 / R / D / W / T GA Apron Surface: Asphalt Strength: PCN 24 / F / C / X / T VVIP Apron Surface: Concrete Strength: PCN 79 / R / C / X / T
2	Taxiway width, surface and strength	TWY A, D, E, H, J Width: 23 M Surface: Asphalt Strength: PCN 70 / F / C / X / T TWY B, F Width: 23 M Surface: Asphalt Strength: PCN 86 / F / A / W / T TWY C, G Width: 23 M Surface: Asphalt Strength: PCN 111 / F / A / W / T TWY B1 Width: 21 M Surface: Asphalt Strength: PCN 50 / F / C / X / T Main Apron Taxiway Width: 59.1 M Surface: Concrete Strength: PCN 109 / R / C / W / T Cargo Apron Taxiway Width: 50 M Surface: Concrete Strength: PCN 108 / R / D / W / T
3	Altimeter checkpoint location and elevation	Location: Main Apron Elevation:38 M Location: Cargo Apron Elevation:39 M Location: VVIP Apron Elevation:39 M Location: GA Apron Elevation:40 M
4	VOR checkpoints	TWY B Holding point: 112.5 MHZ 162° 1.3 NM

5	INS checkpoints	Refer to WMKJ AD 2 - 3
6	Remarks	Separation distance between RWY and parallel TWY A is Code F compliance. Separation distance between parallel TWY A and Apron TWY is Code F compliance. Distance between RWY centre line to RWY holding position is Code F compliance. Unscheduled aircraft are to be parked at the Cargo aircraft parking apron except for VVIP aircraft. Light aircraft to be parked at GA Apron.

WMKJ 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	Lead-in line at apron and stand designation marking - yellow Taxiing guidance signs at intersection with TWY and RWY and at RWY Holding positions. All parking stand marshaller assisted. Nose wheel guidance lines for all parking bays.
2	RWY and TWY markings and LGT	RWY Markings: Runway designation marking, Runway centre line marking, Threshold marking, Transverse stripe, Aiming point marking, Touchdown zone marking, Runway side stripe marking. RWY Lightings: Runway edge lights, Runway threshold lights & Runway end light. TWY Markings: Taxiway centre line marking, Runway turn pad marking, Runwayholding position marking, Intermediate holding position marking, VOR aerodrome checkpoint marking, Taxiway side stripe marking, Transverse stripe. TWY Lightings: Taxiway centre line lights, Taxiway edge lights.
3	Stop bars	NIL
4	Remarks	1. TWY B1 and GA APN edge lights not available. 2. Aiming point markings for RWY 16 begin approximately 48 M before PAPI and aiming point markings for RWY 34 begin approximately 55 M before PAPI.

WMKJ AD 2.10 AERODROME OBSTACLES

RWY / Area effected	Obstacles Type Elevation Markings / LGT	Coordinates
a	b	c
	Four Apron Floodlights Masts situated at Cargo Apron. Hgt 120FT. Lighted at night.	
	ANTENNA, hgt 622.4FT(189.7M). Painted and lgtd.	013102.8N 1035058.8E
	TELECOM TWR AT TAMAN TAMPO INDAH, hgt 285.04FT (86.88M) AMSL. Marked and lgtd.	013051.8N 1034353.8E
	TELECOM TWR AT BUKIT KULAI, hgt 429.8FT (131M) AMSL. Marked and lgtd.	013931.8N 1033647.9E
	TELECOM TWR, hgt 264.47FT (80.61M) AMSL. Marked and lgtd.	014010.8N 1033310.9E
	TELECOM TWR AT LOT 1883 SENAI, hgt 257.71FT (78.55M) AMSL. Marked and lgtd.	013749.8N 1033829.9E
	TELECOM TWR AT UTM SKUDAI, hgt 440FT (134.11M) AMSL. Marked and lgtd	013441.8N 1033851.9E

RWY / Area effected	Obstacles Type Elevation Markings / LGT	Coordinates
a	b	c
	TELECOM TWR AT MUKIM SENAI, hgt 260FT (79.25) AMSL. Marked and lgtd.	013753.8N 1033942.9E
	TELECOM TWR AT LOT 381 SENAI, hgt 260FT (79.25M) AMSL. Marked and lgtd.	013833.8N 1033916.9E
	TELECOM TWR AT JBA KULAI, hgt 259FT (76M) AMSL. Marked and lgtd.	013927.8N 1033556.9E
	TELECOM TWR AT PTD 2694 SENAI, hgt 260FT (79.25M) AMSL. Marked and lgtd.	013815.8N 1033920.9E
	TELECOM TWR, hgt 248FT (75.45M) AMSL. Marked and lgtd.	013648.8N 1033849.9E
	TELECOM TWR, hgt 318FT (96.93M) AMSL. Marked and lgtd.	013241.8N 1034214.8E
	TELECOM TWR, hgt 285FT (86.86M) AMSL. Marked and lgtd.	013241.8N 1034214.8E
	TELECOM TWR, hgt 285FT (86.86M) AMSL. Marked and lgtd.	014002.8N 1033608.9E
	TELECOM TWR AT TAMAN UNIVERSITY, hgt 271FT (82.58M) AMSL. Marked and lgtd.	013217.8N 1033726.9E
	TELECOM TWR, hgt 550FT (152.4M) AMSL. Marked and lgtd.	014046.8N 1033407.9E
	TELECOM TWR, hgt 350FT (106.7M) AMSL. Marked and lgtd.	013103.8N 1034337.8E
	TELECOM TWR, hgt 1231FT (375.2M) AMSL. Marked and lgtd.	014630.7N 1034927.8E
	TELECOM TWR, hgt 506FT (154.23M) AMSL. Marked and lgtd.	014905.7N 1025719.2E
	TELECOM TWR, hgt 408FT (124.35M) AMSL. Marked and lgtd.	013737.8N 1033420.9E
	TELECOM TWR, hgt 581FT (177.1M) AMSL. Marked and lgtd.	015305.7N 1031725.0E
	TELECOM TWR, Telecom Twr, hgt 266FT (81.08M) AMSL. Marked and lgtd.	022937.5N 1025137.2E
	TELECOM TWR, hgt 300FT (91.44M) AMSL. Marked and lgtd.	013938.8N 1033643.9E
	TELECOM TWR 24 WMKJ, hgt 250FT (76.20M) AMSL. Marked and lgtd.	013213.8N 1034203.8E
	TELECOM TWR, hgt 370FT (112.78) AMSL. Marked and lgtd.	012658.8N 1035608.7E
	TELECOM TWR AT PASIR GUDANG, hgt 365.61FT (111.44M) AMSL. Marked and lgtd.	012656.8N 1035537.7E
	TELECOM TWR AT LOT 480, TANJONG SEMBRONG, YONG PENG, hgt 350FT (106.6M) AMSL. Marked and lgtd.	020212.7N 1030412.1E
	TELECOM TWR AT LOT 6084, BUKIT BELAH, SRI MEDAN, hgt 570FT (173.74M) AMSL. Marked and lgtd.	015701.7N 1025756.2E
	TELECOM TWR AT GUNUNG LEDANG, hgt 391FT. Marked and lgtd.	022204.6N 1023627.3E
	TELECOM TWR AT TAMPOI, hgt 100FT. Marked and lgtd.	012959.8N 1034326.8E
	TELECOM TWR AT JALAN TAMPOI, hgt 120FT. Marked and lgtd.	013035.8N 1034351.8E
	TELECOM TWR AT PANDAN, hgt 120FT. Marked and lgtd.	013222.8N 1034707.8E
	TELECOM TWR AT TANGKAK, hgt 420FT. Marked and lgtd.	021427.6N 1023205.4E
	TELECOM TWR AT PASIR GUDANG, hgt 240FT. Marked and lgtd.	012818.8N 1034053.9E
	TELECOM TWR AT KANGKAR SENANGKAR , hgt 340FT. Marked and lgtd.	012818.8N 1034053.9E
	TELECOM TWR AT SRI LALANG, hgt 396FT. Marked and lgtd.	015925.7N 1031516.0E
	TWR ERECTED AT KG GAJAH, hgt 322FT AMSL. Marked and lgtd.	020618.6N 1032343.0E
	TWR ERECTED AT GERSIK, hgt 204FT AMSL. Marked and lgtd.	015431.7N 1024352.3E
	TWR ERECTED AT KANGKAR BARU, hgt 378FT AMSL. Marked and lgtd.	020340.7N 1032343.0E
	TWR ERECTED AT LAM LEE, hgt 293FT AMSL. Marked and lgtd.	020522.6N 1030251.1E
	TWR ERECTED AT KULAI, hgt 500FT AMSL. Marked and lgtd.	013819.8N 1033523.9E
	TWR ERECTED AT TOL KULAI, hgt 350FT AMSL. Marked and lgtd.	013838.8N 1033336.9E

RWY / Area effected	Obstacles Type Elevation Markings / LGT	Coordinates
a	b	c
	TWR ERECTED AT AIR HITAM, hgt 298FT AMSL. Marked and lgtd.	015925.7N 1031516.0E
	TWR ERECTED AT PARIT RAJA, hgt 193FT AMSL. Marked and lgtd.	015151.7N 1030628.1E
	TWR ERECTED AT YONG PENG, hgt 290FT AMSL. Marked and lgtd.	020109.7N 1030256.1E
	TWR ERECTED AT SEMBRONG, hgt 650FT AMSL. Marked and lgtd.	020305.7N 1032202.2E
	TWR ERECTED AT KLUANG, hgt 349FT AMSL. Marked and lgtd.	020158.7N 1031854.0E
	TWR ERECTED AT JLN MERSING, Kluang, hgt 238FT AMSL. Marked and lgtd.	022559.6N 1032003.0E
	TWR ERECTED AT KG. BARU, KLUANG, hgt 231FT AMSL. Marked and lgtd.	010339.9N 1032148.0E
	TWR ERECTED AT LOT 37173, MUKIM, KLUANG, hgt 178FT AMSL. Marked and lgtd.	015929.7N 1031839.0E
	TWR ERECTED AT KLUANG BARAT, hgt 374FT AMSL. Marked and lgtd.	015929.7N 1031543.0E
	TWR ERECTED AT KG MIC, KLUANG, hgt 117FT AMSL. Marked and lgtd.	015931.7N 1031544.0E
	TWR ERECTED AT JLN AIR HITAM, hgt 196FT AMSL. Marked and lgtd.	015459.7N 1031103.0E
	TWR ERECTED AT BATU 6, YONG PENG, hgt 240FT AMSL. Marked and lgtd.	015834.7N 1030634.1E
	TWR ERECTED AT TG. SEMBRONG, YONG PENG, hgt 350FT AMSL. Marked and lgtd.	020212.7N 1030409.1E
	TWR ERECTED AT SEELONG, hgt 203FT AMSL. Marked and lgtd.	013729.9N 1034123.8E
	TWR ERECTED AT PASIR GUDANG, hgt 300FT. Lgtd at night.	012709.8N 1035318.8E
	SEVERAL TWR ERECTED CROSSING APCH PATH/BASE RWY 16, highest hgt 362FT MSL. Lgtd at night.	014156.8N 1033920.9E
	TRANSMISSION TWR, hgt 298.77FT (91.1M) AMSL. Marked and lgtd.	014058N 1034200E
	TRANSMISSION TWR, hgt 276.74FT (84.4M) AMSL. Marked and lgtd.	014054N 1034153E
	TRANSMISSION TWR, hgt 301.67FT (91.9M) AMSL. Marked and lgtd.	014046N 1034142E
	TRANSMISSION TWR, hgt 271.16FT (82.6M) AMSL. Marked and lgtd.	014041N 1034135E
	TRANSMISSION TWR, hgt 271.65FT (82.8M) AMSL. Marked and lgtd.	014035N 1034123E
	TRANSMISSION TWR, hgt 274.77FT (83.7M) AMSL. Marked and lgtd.	014031N 1034116E
	TRANSMISSION TWR, hgt 260.50FT (79.4M) AMSL. Marked and lgtd.	014026N 1034109E
	TRANSMISSION TWR, hgt 289.53FT (88.2M) AMSL. Marked and lgtd.	014022N 1034101E
	TRANSMISSION TWR, hgt 283.30FT (86.3M) AMSL. Marked and lgtd.	014017N 1034055E
	TRANSMISSION TWR, hgt 340.71FT (103.8M) AMSL. Marked and lgtd.	014021N 1034051E
	TRANSMISSION TWR, hgt 352.19FT (107.3M) AMSL. Marked and lgtd.	014026N 1034046E
	TRANSMISSION TWR, hgt 370.57FT (112.9M) AMSL. Marked and lgtd.	014031N 1034041E
	TRANSMISSION TWR, hgt 370.24FT (112.9M) AMSL. Marked and lgtd.	014040N 1034031E
	TRANSMISSION TWR, hgt 338.25FT (103.1M) AMSL. Marked and lgtd.	014049N 1034023E
	TRANSMISSION TWR, hgt 325.29FT (99.1M) AMSL. Marked and lgtd.	014056N 1034017E
	TRANSMISSION TWR, hgt 302.33FT (91.6M) AMSL. Marked and lgtd.	014100N 1034012E
	TRANSMISSION TWR, hgt 283.63FT (85.9M) AMSL. Marked and lgtd.	014108N 1034005E
	TRANSMISSION TWR, hgt 301.34FT (91.3M) AMSL. Marked and lgtd.	014114N 1034000E
	TRANSMISSION TWR, hgt 305.94FT (92.7M) AMSL. Marked and lgtd.	014119N 1033955E
	TRANSMISSION TWR, hgt 276.74FT (83.9M) AMSL. Marked and lgtd.	014128N 1033947E

RWY / Area effected	Obstacles Type Elevation Markings / LGT	Coordinates
a	b	c
	TRANSMISSION TWR, hgt 302.33FT (91.6M) AMSL. Marked and lgtd.	014133N 1033943E
	TRANSMISSION TWR, hgt 260.66FT (78.9M) AMSL. Marked and lgtd.	014139N 1033937E
	TRANSMISSION TWR, hgt 274.11FT (83.1M) AMSL. Marked and lgtd.	014147N 1033930E
	TRANSMISSION TWR, hgt 322.50FT (97.7M) AMSL. Marked and lgtd.	014156N 1033921E
	TRANSMISSION TWR, hgt 303.31FT (91.1M) AMSL. Marked and lgtd.	014201N 1033915E
	TRANSMISSION TWR, hgt 325.95FT (98.7M) AMSL. Marked and lgtd.	014204N 1033908E
	TRANSMISSIONT TWR, hgt 327.59FT (99.2M) AMSL. Marked and lgtd.	014156N 1033902E
	TRANSMISSION TWR, hgt 323.82FT (98.1M) AMSL. Marked and lgtd.	014156N 1033853E
	TRANSMISSION TWR, hgt 331.68FT (100.5M) AMSL. Marked and lgtd.	014153N 1033842E
	TRANSMISSION TWR, hgt 322.35FT (97.6M) AMSL. Marked and lgtd.	014100N 1033831E
	TRANSMISSION TWR, hgt 301.50FT (91.3M) AMSL. Marked and lgtd.	014207N 1033820E
	TRANSMISSIONT TWR, hgt 290.30FT (87.9M) AMSL. Marked and lgtd.	014214N 1033809E
	TRANSMISSION TWR, hgt 322.93FT (97.8M) AMSL. Marked and lgtd.	014219N 1033802E
	TRANSMISSION TWR, hgt 289.52FT (87.7M) AMSL. Marked and lgtd.	014221N 1033754E

WMKJ AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	AMS SENAI
2	Hours of service MET Office outside hours	H24
3	Office responsible for TAF preparation Periods of validity	AMO KLIA H24 (0024 0606 1212 1818)
4	Trend forecast Interval of issuance	-
5	Briefing/consultation provided	NIL
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	No briefing and consultation but charts available upon request
8	Supplementary equipment available for providing information	Aviation Self-Briefing Terminal - ABT (Internet)
9	ATS units provided with information	Johor Bahru APP/TWR
10	Additional information (limitation of service, etc.)	TEL: +607 - 5982802 Telefax:+607 - 5982801

WMKJ AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY(M)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
16	159.88° T	3800 x 45	PCN 70 / F / C / X / T Asphalt / Flexible	THR coordinates 013919.83N 1033950.29E RWY end coordinates 013723.68N 1034032.51E GUND +7.9 M	THR elevation: 41.0 M (134.5 FT) TDZ elevation: 40.0 M (131.3 FT)
34	339.87° T	3800 x 45	PCN 70 / F / C / X / T Asphalt / Flexible	THR coordinates 013723.73N 1034032.56E RWY end coordinates 013919.75N 1033950.18E GUND +8 M	THR elevation: 37 M (121 FT)

Slope of RWY-SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
0.12%	NIL	NIL	3920 x 300	Provided	Locked wheel turn is not allowed on the RWY. RESA : RWY 16 - 240M X 90M RWY 34 - 240M X 90M RWY width: 45M with 15M shoulders on either side.
0.12%	NIL	NIL	3920 x 300	Provided	

WMKJ AD 2.13 DECLARED DISTANCES

RWY DESIGNATOR	FROM	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6	7
16	THRESHOLD	3800	3800	3800	3800	NIL
	TWY B	2336	2336	2336	-	NIL
34	THRESHOLD	3800	3800	3800	3800	NIL
	TWY C	2120	2120	2120	-	NIL
	TWY D	2194	2194	2194	-	NIL
	TWY E	3293	3293	3293	-	NIL

WMKJ AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ, LGT LEN	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour INTST	RWY End LGT colour WBAR	SWY LGT LEN (M) colour	Remarks
1	2	3	4	5	6	7	8	9	10
16	CAT1 900 M LIH	Green	PAPI LEFT 3° 17.9 M / 59.0 FT	NIL	NIL	3800, 60 M White: 0 - 3143 M Yellow: 3200 - 3800 M LIH	Red	NIL	NIL
34	SALS 420M LIH	Green	PAPI RIGHT/ 3° 17.9 M / 59.0 FT	NIL	NIL	3800, 60 M White: White: 0 - 3143 M Yellow:3200 - 3800 M LIH	Red	NIL	NIL

WMKJ AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and operational hours	NIL
2	LDI location and LGT Anemometer location and LGT	LDI: NIL WDI: Illuminated Wind Direction Indicator (IWDI) RWY 16 - Left of THR and lighted. RWY 34 - Left of THR and lighted.
3	TWY edge and centre line lighting	Edge: At all TWY and aprons except TWY B1 and GA Apron. Colour: Blue Centre line: At all TWY curves. Colour: Green
4	Secondary power supply/switch-over time	Automatic standby generator available for airfield lighting and telecommunications. Max switch-over time - less than 15 seconds.
5	Remarks	NIL

WMKJ AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO Geoid undulation	NIL
2	TLOF and/or FATO elevation M/FT	NIL
3	TLOF and FATO area dimensions, surface, strength, marking	NIL
4	True BRG of FATO	NIL
5	Declared distance available	NIL
6	APP and FATO lighting	NIL
7	Remarks	NIL

WMKJ AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	JOHOR BAHRU CTR 012730N 1034354E, 013530N 1033554E, 014130N 1033254E then clockwise around the arc of a circle of radius 5 NM centred on 014400N 1033724E to 014620N 1034134E, 014000N 1034454E, 012830N 1034754E then along the national boundary to 012730N 1034354E.
2	Vertical limits	SFC to 3000 FT ALT
3	Airspace classification	C
4	ATS unit call sign Language(s)	Johor Radar during approach radar service provision. Johor Tower during approach procedural service provision. English
5.	Designation and lateral limits	JOHOR BAHRU TMA Area bounded by 013022N 1033437E, 014404N 1031507E, thence along the arc of 25 NM radius centred of VJB, thence along western boundary of B469,thence along northern boundary W401 to 013022N 1033437E
6.	Vertical limits	1 500 FT ALT to FL 245
7.	Airspace classification	C
8.	Unit Providing Service	Johor Radar / Johor Tower 1 500 FT ALT to 6 000 FT ALT Lumpur ACC / Singapore ACC 7 000 FT ALT to FL 245
9.	Transition altitude	11000 FT ALT
10.	Remarks	NIL

WMKJ AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
SMC	JOHOR GROUND	121.8MHZ	22:30 - 16:00	-
TWR	JOHOR TOWER	118.15MHZ		Between hours from 16:00 - 22:30 UTC, all Johor airspace release to Lumpur Radar. Aircraft to contact Lumpur Radar on 123.75 MHZ (PRI) or 132.75 MHZ (SRY)
APP	JOHOR RADAR	124.7MHZ (P) 121.05MHZ (S)	23:30 - 13:30	Radar service available from 2330 - 1330 UTC daily Johor Tower shall be responsible for the provision of Air Traffic Services outside the above operation hours
ATIS	JOHOR TERMINAL INFORMATION	123.05MHZ	22:30 - 16:00	-

WMKJ AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, MAG VAR, CAT of ILS/MLS (For VOR/ILS/MLS, give declination)	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
RWY 16						
ILS/LOC	IJB	109.9MHZ	H24	013714.8N 1034035.8E	-	Hgt of aerial 3.2M. Back beam not flyable
GP/DME		333.8MHZ CH 36X		013909.7N 1033958.1E	-	Hgt of aerial 14.5M.Glide slope 3°.
NDB	JR	245KHZ		014024.55N 1033927.84E	-	168° MAG / 1.2NM from THR RWY 16.
VOR/DME	VJB	112.5MHZ CH 72X		013950.40N 1033939.20E	43.07M	1000M from THR RWY 16.

WMKJ AD 2.20 LOCAL TRAFFIC REGULATIONS

2.20.1 Aircraft Bay Regulation At Cargo Apron

2.20.1.1 Bay 21

This bay is to accommodate up to A21N with wingspan not more than 35.80 M.

2.20.1.2 Bay 22

This bay is to accommodate up to A21N with wingspan not more than 35.80 M.

2.20.1.3 Bay 23

This bay is to accommodate up to B744 aircraft with wingspan not more than 64.4 M.

2.20.1.4 Bay 24-27

This bay is to accommodate up to A21N with wingspan not more than 35.80 M.

2.20.1.5 All aircrafts park at Bay 21 to 27 are power in, push-out mode.

2.20.1.6 Aircrafts from Bay 21 to 24 shall be pushed back with aircraft facing to the south. For Bay 25, 26 and 27 all aircraft shall be pushed back with aircraft facing to the east.

2.20.1.7 The pilot in-command and aircraft marshaller shall be responsible for the safety of the aircraft with respect to all other aircraft, vehicles, persons and other obstruction during engine start-up power-out and taxiing, and also ensuring appropriate blast zones are clear during engine start-up.

2.20.1.8 For the long layover aircraft, parking at bay mentioned above may be allowed for discharging cargo, thereafter to be towed to designated area at the south of apron.

2.20.1.9 All aircraft are required to bring own tow-bar except for B737, B727, B777, B747, B767, MD-11, DC-10, IL96, L-1011, DC-8, AN-12, A340-200, A330-200/300, A310 and A300.

2.20.2 Parking Area For General Aviation Aircraft

2.20.2.1 Parking area for General Aviation aircraft will be allocated by Ground Handling Division, Senai Airport Terminal Services (SATS). The stands will be allocated at the new General Aviation parking area located to the west of the Cargo Apron.

2.20.2.2 Taxiway B1 and GA Apron for day operations only.

2.20.3 Helicopter operations

2.20.3.1 All helicopter operations shall land at, and take-off from the runway, and

i. Use TWY C/G if going to or/and going out from Passenger Apron.
ii. Use TWY B/F if going to or/and going out from Cargo Apron.

2.20.3.2 Pilots in command shall call the Surface Movement Control frequency (121.8 MHz) for taxi/air taxi from parking positions to the respective taxiway, prior to commencing movement. The take-off clearance will be provided by Aerodrome Control (118.15MHz) and may be accompanied by an initial tracking clearance to resolve aerodrome traffic conflicts.

2.20.3.3 Pilots in command of arriving helicopters will be issued with tracking instructions to avoid aerodrome traffic conflictions and clearance to land on the respective taxiway.

2.20.3.4 After landing at the respective taxiway, the pilot-in command will be issued with a parking position. The pilot-in-command shall taxi/air taxi the aircraft to the parking position.

2.20.3.5 ATC may consider direct tracking to land or take-off via North of Cargo Terminal from Cargo Apron if traffic permitted.

2.20.4 Local Flying Restrictions

2.20.4.1 Circuit Pattern

a) Heavy 1500FT/2000FT on QNH
b) Light/Medium 1000FT on QNH

2.20.4.2 Circuit Pattern

a) RWY 16 LEFT-HAND circuit
b) RWY 34 RIGHT-HAND circuit

2.20.4.3 Standard Circuit Joining Procedure

a) From eastern side

i. Descend over east of airfield to circuit altitude
ii. Position accordingly into traffic pattern at downwind when cleared by ATC
iii. Pilots shall be responsible for maintaining their own separation

b) From western site:

i. Proceed west of airfield 1000FT or as instructed by ATC via west of North-South highway.
ii. Hold at west of the airfield.
iii. Position accordingly into the traffic pattern at right hand downwind RWY 16 or as instructed by ATC.
iv. Pilot shall be responsible for maintaining their own separation.

2.20.4.4 Night Flying Circuit and Training Procedures

2.20.4.4.1 All night flying circuit and training procedures in WMKJ are subject to the following conditions:

i. in VMC conditions;
ii. Pilot is IFR rated;
iii. Aircraft type are IFR certified;
iv. Circuits are permitted within aerodrome operation hours however; instrument training are premitted within Johor Radar operation hours; and
v. Circuit availability is subject to the approval from CAAM Manager Johor Bahru for foreign aircraft and the slot allocation is from Johor Tower.

2.20.5 Isolation Bay

2.20.5.1 Isolation Parking Area is located at the intersection of Taxiway A and E.

2.20.6 Parking Area For Schedule/Non-schedule Passenger Aircraft

2.20.6.1 Under normal circumstances, all Passenger Aircraft either schedule or non-schedule will be issued a parking position at Bay 1 to Bay 8 of Main Apron.

2.20.6.2 To optimize the utilization of passenger Loading Bridges at Gates 1 to 4, aircraft parked at these stands and experienced technical difficulties and delay is expected to be more than 60 minutes of ETD (other than emergency) shall have to move to the remote bay.

2.20.6.3 All aircraft type A320, B737 and ATR-72 must parked at PIPO marking when parked at Bay 2A, 3A, 4A, 5, 6, 7. Upon entering apron, pilot in command shall look out for aircraft marshallers to guide the aircraft to the assigned aircraft parking stand. The pilot in command and the marshallers shall be responsible for the safety of the aircraft with respect to all other aircraft, vehicles, persons and other obstructions on the apron during docking, engine start up and taxing.

2.20.6.4 All aircraft type A320 and ATR-72 must parked at Bay 5A, 6A, 6B & 7A. Upon entering apron, pilot in command shall look out for aircraft marshallers to guide the aircraft to the assigned aircraft parking stand. The pilot in command and the marshallers shall be responsible for the safety of the aircraft with respect to all other aircrafts, vehicles, persons and other obstructions on the apron during docking, engine start up and taxing

2.20.6.5 Diversion flight shall park at cargo apron.

WMKJ AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

WMKJ AD 2.22 FLIGHT PROCEDURES

2.22.1 DME Arrival Procedures For Johor Bahru / Senai International Airport.

RADIAL/TRACK	NAVAID	DME CHECK POINT	MNM IFR ALTITUDE	AFTER Passing ..... DME/VJB DESCEND to ..... FT on QNH	REMARKS
R-275/095°	VJB	Not Required	5000FT	14 ↓ 3500	From overhead VJB VOR make Standard Instrument Approach or as directed by ATC. Note: Level restriction to cross 25 DME VJB North 6000FT or below for arrivals on W534, A457 and R325.
R-297/117°	VJB	Not Required	5000FT	8 ↓ 3500	
R-016/196°	VJB	Not Required	6000FT	20 ↓ 5000 8 ↓ 3500	
R-319/139°	VJB	Not Required	6000FT	20 ↓ 5000 8 ↓ 3500	

WMKJ AD 2.23 ADDITIONAL INFORMATION

2.23.1 Bird Concentration In The Vicinity Of The Airport

2.23.1.1 Presence of birds on runway and grass area. Pilots to exercise caution while landing and take-off.

2.23.2 Ununiform gap of RWY centre line markings.

2.23.2.1 Ununiform gap of RWY centre line markings at the extended portion of RWY 34 approximately 500 M.

2.23.3 Overload Operation

2.23.3.1 Prior approval from Senai Airport Terminal Services Sdn. Bhd. required for aircraft operation with ACN higher than runway PCN 77.

WMKJ AD 2.24 CHARTS RELATED TO AN AERODROME

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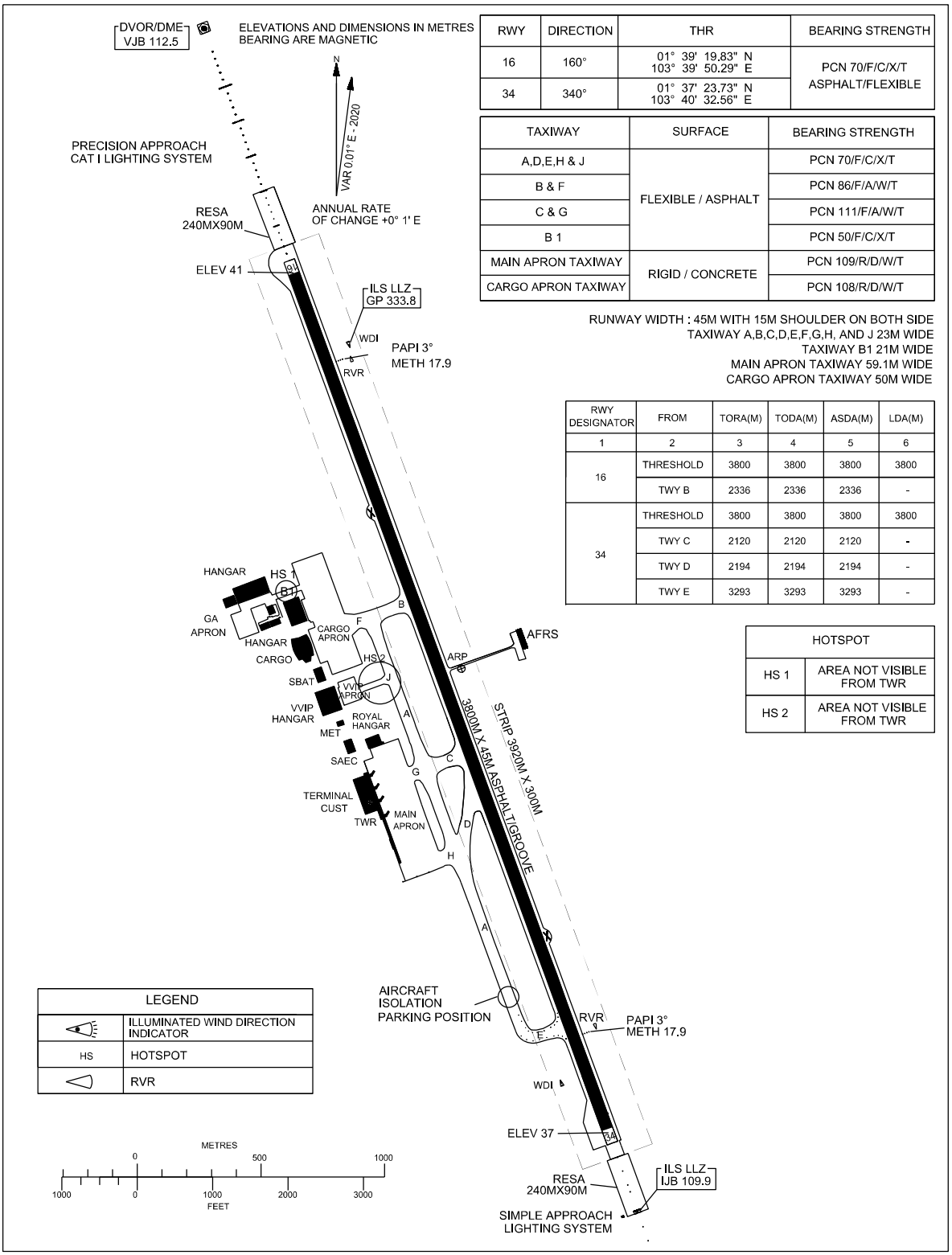
AERODROME/HELIPORT CHART - ICAO

01° 38' 26" N
103° 40' 13" E

ELEV 41M

SMC	121.80 MHZ
TWR	118.15 MHZ
APP	124.70 MHZ
	121.05 MHZ
ATIS	123.05 MHZ

JOHOR BAHRU SENAI INTERNATONAL AIRPORT



RWY	DIRECTION	THR	BEARING STRENGTH
16	160°	01° 39' 19.83" N 103° 39' 50.29" E	PCN 70/F/C/X/T ASPHALT/FLEXIBLE
34	340°	01° 37' 23.73" N 103° 40' 32.56" E	

TAXIWAY	SURFACE	BEARING STRENGTH
A,D,E,H & J	FLEXIBLE / ASPHALT	PCN 70/F/C/X/T
B & F		PCN 86/F/A/W/T
C & G		PCN 111/F/A/W/T
B 1		PCN 50/F/C/X/T
MAIN APRON TAXIWAY	RIGID / CONCRETE	PCN 109/R/D/W/T
CARGO APRON TAXIWAY		PCN 108/R/D/W/T

RUNWAY WIDTH : 45M WITH 15M SHOULDER ON BOTH SIDE
TAXIWAY A,B,C,D,E,F,G,H, AND J 23M WIDE
TAXIWAY B1 21M WIDE
MAIN APRON TAXIWAY 59.1M WIDE
CARGO APRON TAXIWAY 50M WIDE

RWY DESIGNATOR	FROM	TORA(M)	TODA(M)	ASDA(M)	LDA(M)
1	2	3	4	5	6
16	THRESHOLD	3800	3800	3800	3800
	TWY B	2336	2336	2336	-
34	THRESHOLD	3800	3800	3800	3800
	TWY C	2120	2120	2120	-
	TWY D	2194	2194	2194	-
	TWY E	3293	3293	3293	-

HOTSPOT	
HS 1	AREA NOT VISIBLE FROM TWR
HS 2	AREA NOT VISIBLE FROM TWR

CHANGES : REPLACEMENT CHART

INTENTIONALLY BLANK

AERODROME PARKING/DOCKING CHART - ICAO

APRON ELEV
40M

SMC	121.80 MHZ
TWR	118.15 MHZ
APP	124.70 MHZ
	121.05 MHZ
ATIS	123.05 MHZ

JOHOR BAHRU SENAI INTERNATONAL AIRPORT

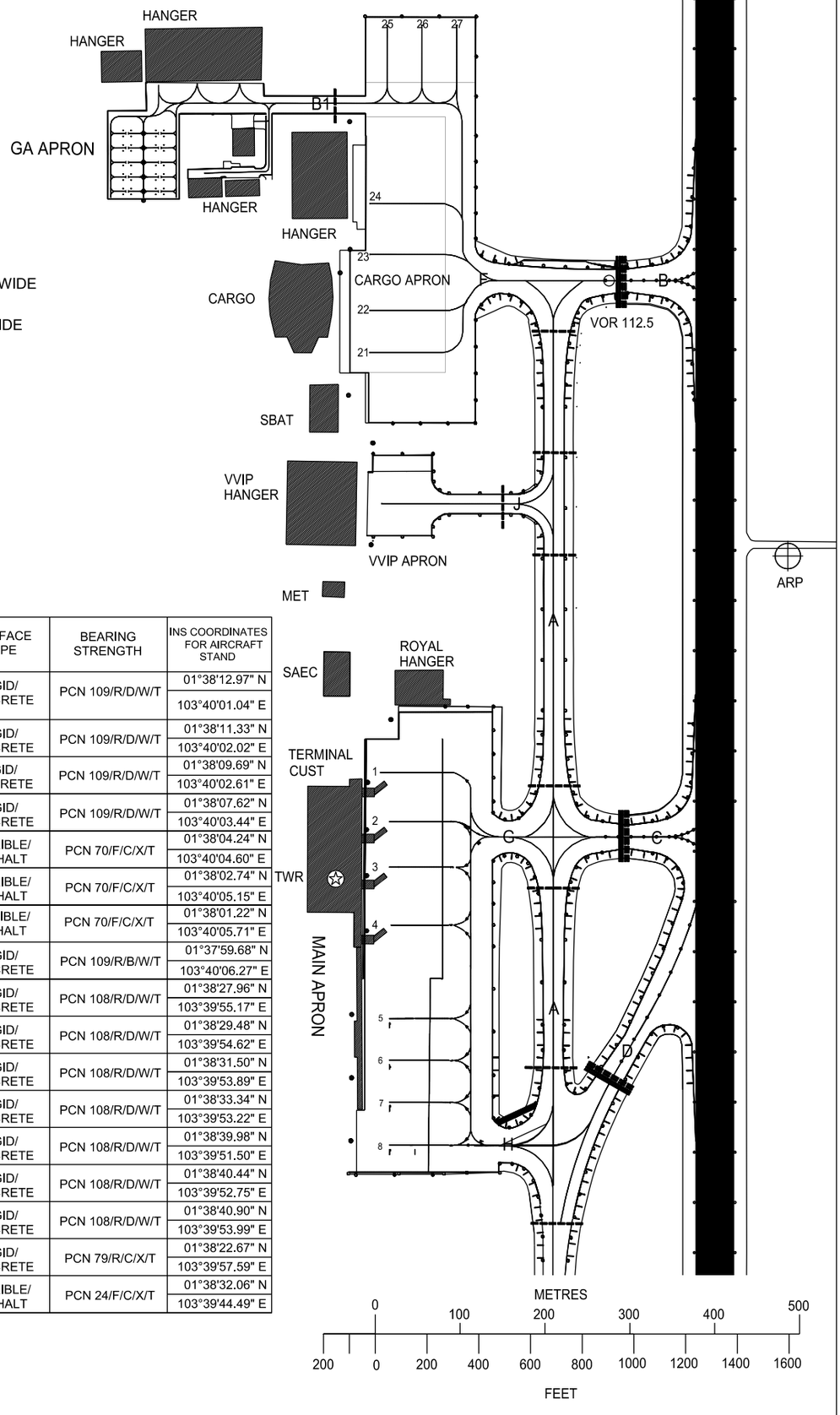
ELEVATIONS AND DIMENSIONS IN METRES
BEARING ARE MAGNETIC

VAR 0.01° E - 2020

ANNUAL RATE
OF CHANGE +0° 1' E

TAXIWAY A,B,C,D,E,F,G,H AND J 23M WIDE
TAXIWAY B1 21M WIDE
TERMINAL APRON TAXIWAY 59.1M WIDE
CARGO APRON TAXIWAY 50M WIDE

LEGEND	
	TAXIWAY EDGE LIGHT
	RUNWAY EDGE LIGHT
	TAXIWAY LEAD-IN LIGHT
	APRON FLOOD LIGHT
	INTERMEDIATE HOLDING POSITION
	RUNWAY- HOLDING POSITION



BAY NUMBER	AIRCRAFT TYPE	SURFACE TYPE	BEARING STRENGTH	INS COORDINATES FOR AIRCRAFT STAND
1	B744, A359, A346, A358, B773, A333, A343, B789, B772, B763 B39M, A21N, AT76 OR SMALLER	RIGID/ CONCRETE	PCN 109/R/D/W/T	01°38'12.97" N 103°40'01.04" E
2	B39M, A21N, AT76 OR SMALLER	RIGID/ CONCRETE	PCN 109/R/D/W/T	01°38'11.33" N 103°40'02.02" E
3	B39M, A21N, AT76 OR SMALLER	RIGID/ CONCRETE	PCN 109/R/D/W/T	01°38'09.69" N 103°40'02.61" E
4	A333, B39M, A21N, AT76 OR SMALLER	RIGID/ CONCRETE	PCN 109/R/D/W/T	01°38'07.62" N 103°40'03.44" E
5	B39M, A21N, AT76 OR SMALLER	FLEXIBLE/ ASPHALT	PCN 70/F/C/X/T	01°38'04.24" N 103°40'04.60" E
6	B39M, A21N, AT76 OR SMALLER	FLEXIBLE/ ASPHALT	PCN 70/F/C/X/T	01°38'02.74" N 103°40'05.15" E
7	B39M, A21N, AT76 OR SMALLER	FLEXIBLE/ ASPHALT	PCN 70/F/C/X/T	01°38'01.22" N 103°40'05.71" E
8	B39M, A21N, AT76 OR SMALLER	RIGID/ CONCRETE	PCN 109/R/B/W/T	01°37'59.68" N 103°40'06.27" E
21	B39M, A21N, AT76 OR SMALLER	RIGID/ CONCRETE	PCN 108/R/D/W/T	01°38'27.96" N 103°39'55.17" E
22	B39M, A21N, AT76 OR SMALLER	RIGID/ CONCRETE	PCN 108/R/D/W/T	01°38'29.48" N 103°39'54.62" E
23	B744, B39M, A21N OR SMALLER	RIGID/ CONCRETE	PCN 108/R/D/W/T	01°38'31.50" N 103°39'53.89" E
24	B39M, A21N OR SMALLER	RIGID/ CONCRETE	PCN 108/R/D/W/T	01°38'33.34" N 103°39'53.22" E
25	B39M, A21N OR SMALLER	RIGID/ CONCRETE	PCN 108/R/D/W/T	01°38'39.98" N 103°39'51.50" E
26	B39M, A21N OR SMALLER	RIGID/ CONCRETE	PCN 108/R/D/W/T	01°38'40.44" N 103°39'52.75" E
27	B39M, A21N OR SMALLER	RIGID/ CONCRETE	PCN 108/R/D/W/T	01°38'40.90" N 103°39'53.99" E
VVIP APRON	B738 OR SMALLER	RIGID/ CONCRETE	PCN 79/R/C/X/T	01°38'22.67" N 103°39'57.59" E
GA APRON	PC-12 OR SMALLER	FLEXIBLE/ ASPHALT	PCN 24/F/C/X/T	01°38'32.06" N 103°39'44.49" E

CHARTS : REPLACEMENT CHART

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AERODROME GROUND MOVEMENT CHART - ICAO

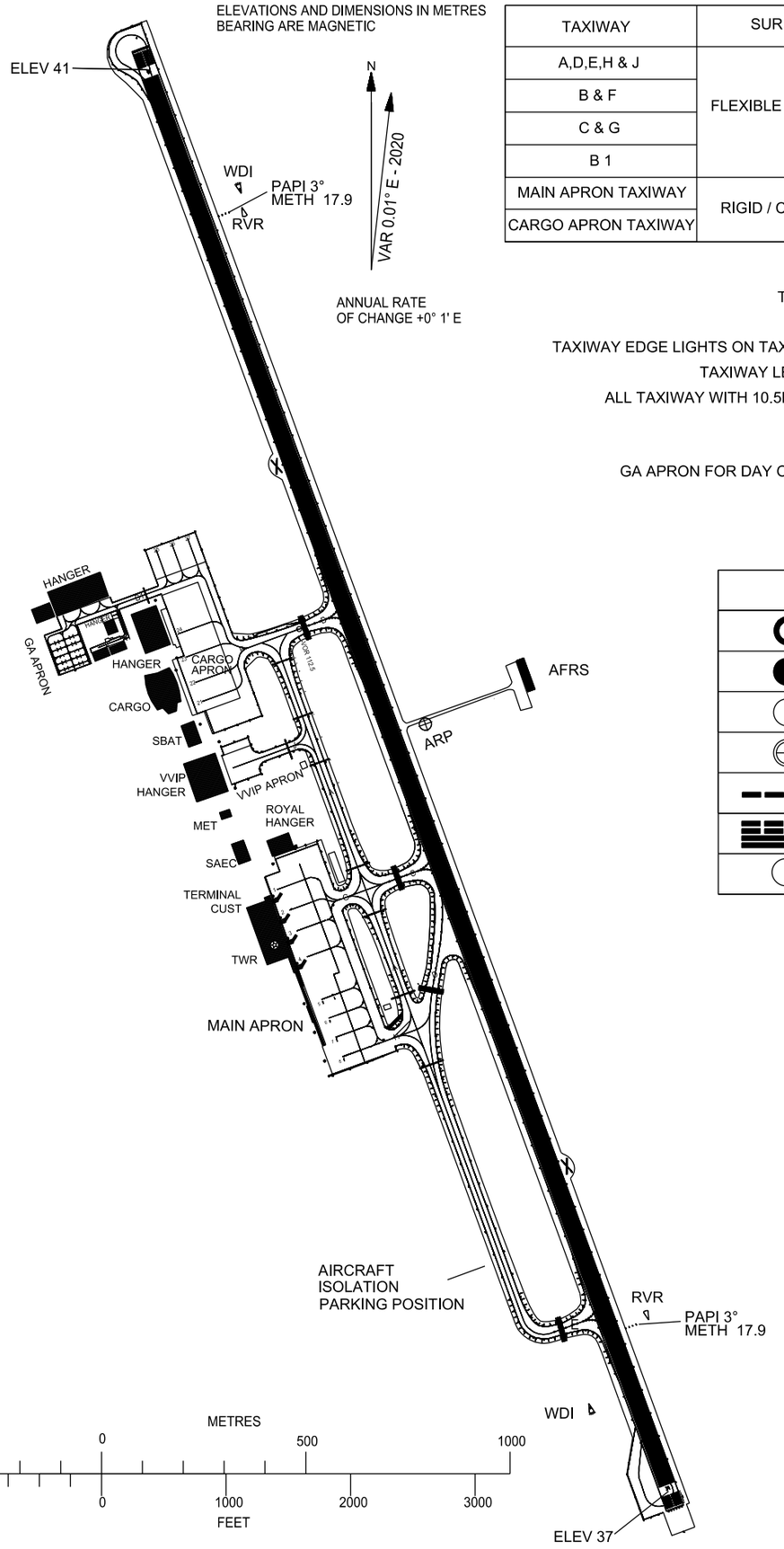
01° 38' 26" N
103° 40' 13" E

APRON ELEV
40M

SMC	121.80 MHZ
TWR	118.15 MHZ
APP	124.70 MHZ
	121.05 MHZ
ATIS	123.05 MHZ

JOHOR BAHRU SENAI INTERNATONAL AIRPORT

ELEVATIONS AND DIMENSIONS IN METRES
BEARING ARE MAGNETIC



TAXIWAY	SURFACE	BEARING STRENGTH
A,D,E,H & J	FLEXIBLE / ASPHALT	PCN 70/F/C/X/T
B & F		PCN 86/F/A/W/T
C & G		PCN 111/F/A/W/T
B 1		PCN 50/F/C/X/T
MAIN APRON TAXIWAY	RIGID / CONCRETE	PCN 109/R/D/W/T
CARGO APRON TAXIWAY		PCN 108/R/D/W/T

TAXIWAY A,B,C,D,E,F,G,H AND J 23M WIDE
TAXIWAY B1 21M WIDE
TAXIWAY EDGE LIGHTS ON TAXIWAYS A,B,C,D,E,F,G,H AND J EXCEPT B1
TAXIWAY LEAD-IN LIGHTS ON TAXIWAY B,C,D, AND E
ALL TAXIWAY WITH 10.5M SHOULDER EXCEPT TAXIWAY J AND B1
MAIN APRON TAXIWAY 59.1M WIDE
CARGO APRON TAXIWAY 50M WIDE
GA APRON FOR DAY OPERATION ONLY (NIL BLUE EDGE LIGHT)

LEGEND	
	TAXIWAY EDGE LIGHT
	RUNWAY EDGE LIGHT
	TAXIWAY LEAD-IN LIGHT
	APRON FLOOD LIGHT
	INTERMEDIATE HOLDING POSITION
	RUNWAY- HOLDING POSITION
	VOR AERODROME CHECKPOINT MARKING

CHANGES : REPLACEMENT CHART

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WMKM AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	Bay 1 **and** Bay 2 Surface : Concrete (Rigid) Strength : PCR 157 / R / D / X / U Bay 1A Surface : Concrete (Rigid) Strength : PCR 501 / R / D / X / U Bay R1 and Bay R4 Surface : Concrete (Rigid) Strength : 1999 KG / 1.25 MPa Bay R2 and Bay R3 Surface : Concrete (Rigid) Strength : PCR 11 / R / D / Y / U
2	Taxiway width, surface and strength	Taxiway A Width:15 M Surface:Asphalt (Flexible) Strength: PCR 444 / F / D / X / U Taxiway C and Taxiway D Width:7.5 M Surface:Asphalt (Flexible) Strength: PCR 16 / F / D / Y / U Taxiway E Width:15 M Surface:Asphalt (Flexible) Strength: PCR 9 / F / D / Y / U Holding Bay B Width:74 M Surface:Asphalt (Flexible) Strength: PCR 660 / F / B / X / T Aircraft Stand Taxilane A1 Width:10 M Surface:Asphalt (Flexible) and Concrete (Rigid) Strength: PCR 444 / F / D / X / U and PCR 11 / R / D / Y / U
3	Altimeter checkpoint location and elevation	Location: Main apron Elevation: 4M (13FT)
4	VOR checkpoints	TWY A Holding Position: 296° / 0.17NM
5	INS checkpoints	At aircraft parking stands (See AD 2-WMKM-2-3)
6	Remarks	Holding Bay B and Taxiway D are available for daylight operation only.

WMKM 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 all intersections with TWY and RWY and at all holding positions. Guide-lines at apron. Nose-in guidance at aircraft stands.
2	RWY and TWY markings and LGT	RWY markings : Designation, threshold, side stripe, transverse stripe, centre line, touchdown zone and aiming point. Runway turn pad markings at RWY 21 only. RWY LGT : Threshold, edge and end lights. Wing bar lights at RWY 03 only. TWY markings : Centre line, taxi side stripe, runway-holding position, intermediate holding position and transverse stripe markings. VOR aerodrome checkpoint marking at TWY A only. Mandatory instruction marking at Holding Bay B and Taxiway E only. TWY LGT : Edge lights.
3	Stop bars	NIL
4	Remarks	NIL

WMKM AD 2.10 AERODROME OBSTACLES

In approach/TKOF areas			In circling area and at AD		Remarks
1			2		3
RWY NR/Area affected	**Obstacle type Elevation Markings/LGT**	**Coordinates**	**Obstacle type Elevation Markings/LGT**	**Coordinates**	
a	b	c	a	b	
03 APCH 21 TKOF	NIL	-	WDI RWY 03 12 M (41 FT) Marked and Lighted	021537.1N 1021456.0E	
21 APCH 03 TKOF	HILL : 53.39M / 175FT AMSL (Hill protrude 1M above 2% Approach obstacle limitation surface.	021718.84N 1021609.08E 2065M from Threshold 21. 302M an left side of extended Centerline on approach to RWY 21	WDI RWY 21 18 M (59 FT) Marked and Lighted	021615.0N 1021524.0E	
			GP ANTENNA 20 M / 66FT	021536.4N 1021454.2E	

Elevation of Obstacles above transitional, Inner Horizontal and Conical Obstacle Limitation Surface

FEDERAL SECRETARIAT BUILDING, Ayer Keroh, 426FT AMSL. Lgtd at night	021609N 1021714E Inner Horizontal
TELECOMS MAST at Bukit Cheng, Hgt 185FT AMSL, marked and lgtd	021500N 1021310E Inner Horizontal
TELECOMS TOWER Kolam Air Bertam Malim 170FT. AMSL	021502N 1021321E Inner Horizontal
HILL 168FT AMSL	021616N 1021624E Inner Horizontal
HILL BUKIT JELUTONG 173FT AMSL	021539N 1021547E Inner Horizontal
HILL BUKIT LESONG BATU 377FT AMSL	021539N 1021650E Inner Horizontal
HILL GOONG PIRING 198FT AMSL	021504N 1021310E Inner Horizontal
TELECOMS TOWER BUKIT TINGGI 382FT AMSL	021525N 1021309E Inner Horizontal
HILL 197FT AMSL	021538N 1021321E Inner Horizontal

HILL BUKIT KUDA 197FT AMSL	021624N 1021331E Inner Horizontal
HILL 197FT AMSL	021628N 1021321E Inner Horizontal
HILL 243FT AMSL	021722N 1021644E Inner Horizontal
TNB ELECTRICAL PYLON 290FT AMSL	021644N 1021645E Inner Horizontal
TELECOMS TOWER Lot 97, Kawasan Perindustrian Ayer Keroh 350FT AMSL	021523N 1021753E Conical
HILL BUKIT GONDOL 206FT AMSL	021358N 1021637E Conical
TELECOM TOWER BUKIT BERUANG 767FT AMSL, Marked and lgtd.	021435N 1021705E Conical
TELECOMS TOWER Lot 479 Mukim Cheng 280FT AMSL	021633N 1021250E Conical
3 CHIMNEY, Air Keroh Industrial Area 334FT AMSL	021520N 1021720E Conical
CTRM BUILDING, West of airfield 100FT AMSL	021550N 1021514E Transitional
MULTI STOREY BUILDING (PDRM Staff Quarters) 204FT AMSL	021720N 1021446E Inner Horizontal

WMKM AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	AMS MALACCA
2	Hours of service MET Office outside hours	H24
3	Office responsible for TAF preparation Periods of validity	AMO KLIA 2400(0024 0606 1212 1818)
4	Trend forecast Interval of issuance	H24
5	Briefing/consultation provided	NIL
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	No briefing and consultation but charts available upon request
8	Supplementary equipment available for providing information	Aviation Self-Briefing Terminal - ABT (Internet)
9	ATS units provided with information	Malacca APP/TWR
10	Additional information (limitation of service, etc.)	TEL: +06 - 3175773 Telefax:+06 - 3176646

WMKM AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY(M)	Strength (PCR) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
03	29.00°T	2135 x 45	PCR 444 / F / D / X / U Asphalt (Flexible)	THR coordinates 021525.96N 1021452.70E RWY end coordinates 021626.09N 1021527.36E GUND 1.0M	THR elevation: 5.4 M(17.7 FT) TDZ elevation: 5.4 M(17.7 FT)

Designations RWY NR	TRUE BRG	Dimensions of RWY(M)	Strength (PCR) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
21	209.00°T	2135 x 45	PCR 444 / F/ D / X / U Asphalt (Flexible)	THR coordinates 021626.09N 1021527.36E RWY end coordinates 021525.96N 1021452.70E GUND 1.0M	THR elevation: 12 M (39 FT)

Slope of RWY-SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
+0.314%	NIL	NIL	2255 x 280	NIL	RESA 90M x 90M
-0.314%	NIL	NIL	2255 x 280	NIL	RESA 90M x 90M

WMKM AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)		TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2		3	4	5	6
	FROM	TORA				
03	THRESHOLD	2135	2135	2135	2135	NIL
	TWY D	1335	1335	1335	NIL	NIL
21	THRESHOLD	2135	2135	2135	2135	NIL
	TWY C	1690	1690	1690	NIL	NIL
	TWY D	800	800	800	NIL	NIL

WMKM AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ, LGT LEN	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour INTST	RWY End LGT colour WBAR	SWY LGT LEN (M) colour	Remarks
1	2	3	4	5	6	7	8	9	10
03	CAT1 578M LIH	Green Green	PAPI Left Slope 3° 16.4 M (53.8 FT)	NIL	NIL	2135M 60M Variable White / Yellow LIH	Red	NIL	Interval distance of RWY 03 approach light mast from Row No.18 to Row No. 19 is more than 30M.
21	SALS 360M LIH	Green -	PAPI Left Slope 3° 16.6 M (54.5 FT)	NIL	NIL	2135M 60M Variable White/ Yellow LIH	Red	NIL	NIL

AERODROME/HELIPORT CHART - ICAO

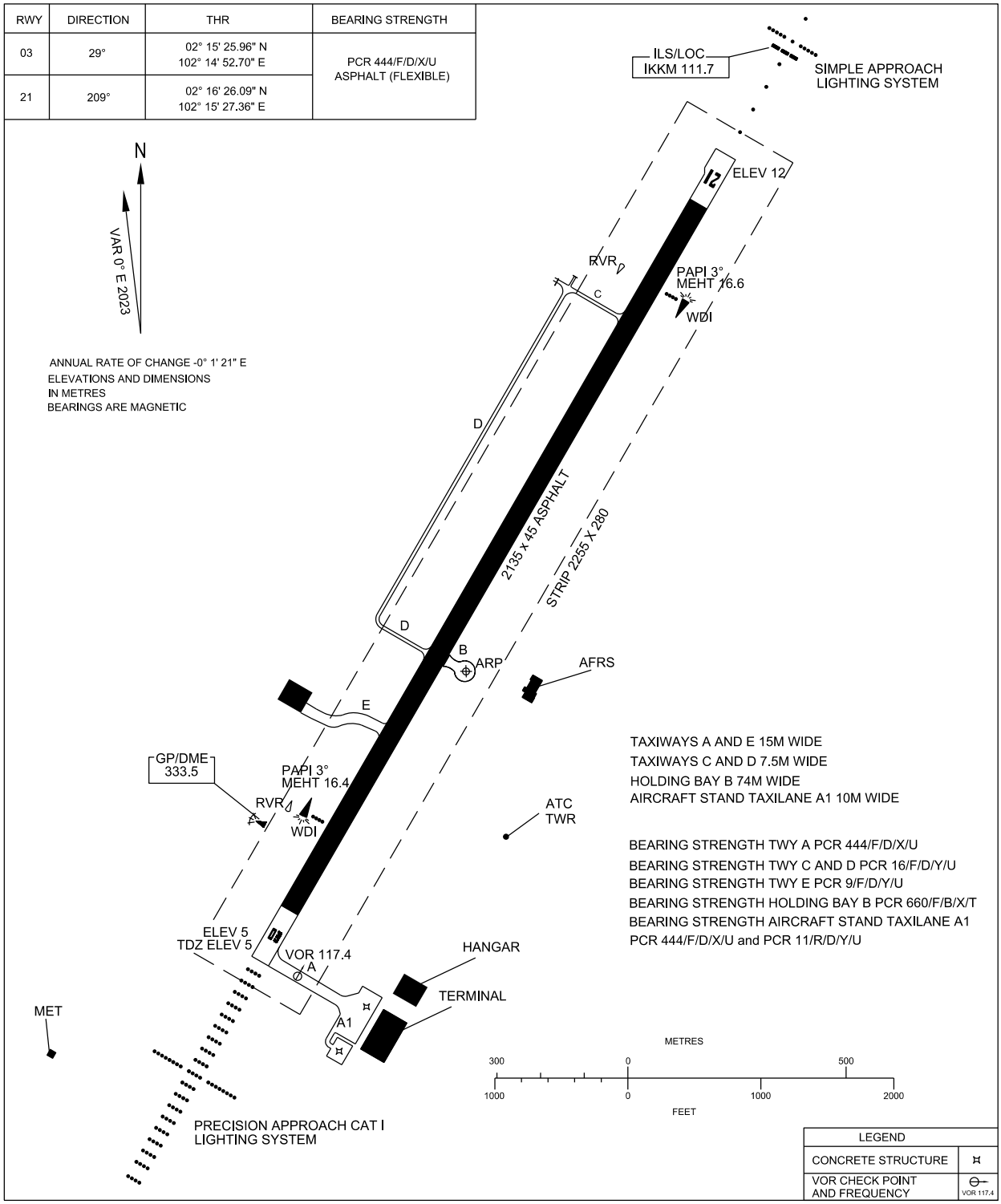
02° 15' 47" N
102° 15' 09" E

ELEV 12 M

TWR	118.0
SMC	121.6
ATIS	127.45

MALACCA/ MALACCA AIRPORT

RWY	DIRECTION	THR	BEARING STRENGTH
03	29°	02° 15' 25.96" N 102° 14' 52.70" E	PCR 444/F/D/X/U ASPHALT (FLEXIBLE)
21	209°	02° 16' 26.09" N 102° 15' 27.36" E	



CHANGES: PAVEMENT BEARING STRENGTH

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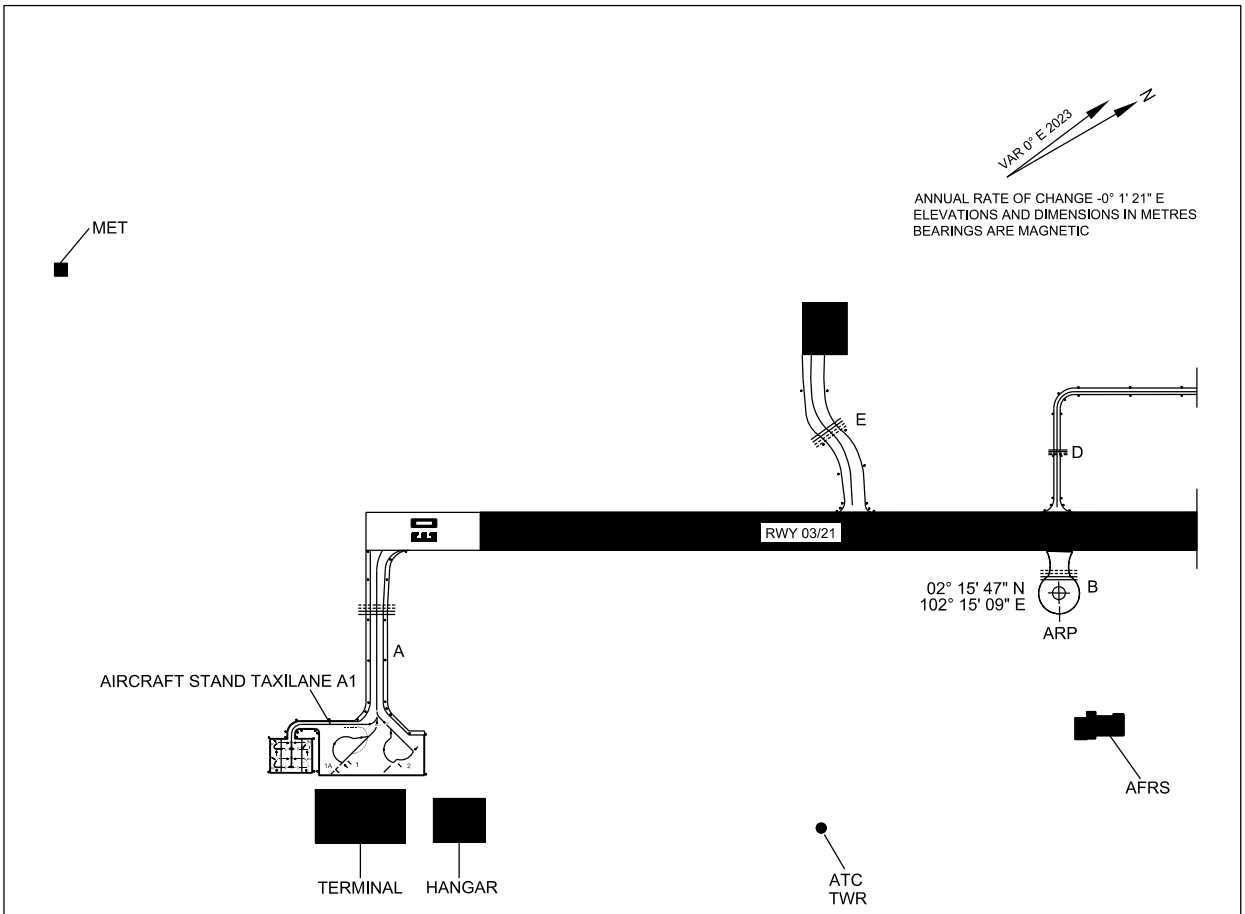
AIRCRAFT PARKING/ DOCKING CHART - ICAO

APRON ELEV
4 M

TWR	118.0
SMC	121.6
ATIS	127.45

MALACCA/ MALACCA AIRPORT



TAXIWAYS A AND E 15M WIDE
TAXIWAYS C AND D 7.5M WIDE
HOLDING BAY B 74M WIDE
AIRCRAFT STAND TAXILANE A1 10M WIDE

BEARING STRENGTH TWY A PCR 444/F/D/X/U
BEARING STRENGTH TWY C AND D PCR 16/F/D/Y/U
BEARING STRENGTH TWY E PCR 9/F/D/Y/U
BEARING STRENGTH HOLDING BAY B PCR 660/F/B/X/T
BEARING STRENGTH AIRCRAFT STAND TAXILANE A1
PCR 444/F/D/X/U AND PCR 11/R/D/Y/U

AIRCRAFT PARKING/DOCKING STAND POSITION

INS COORDINATES FOR AIRCRAFT STANDS			SURFACE & STRENGTH	AIRCRAFT TYPE
1	02° 15' 20.97" N	102° 14' 59.73" E	PCR 157/R/D/X/U	AT76
1A	02° 15' 20.68" N	102° 14' 59.79" E	PCR 501/R/D/X/U	A320, E290
2	02° 15' 22.67" N	102° 15' 00.77" E	PCR 157/R/D/X/U	AT76
R1	02° 15' 19.06" N	102° 14' 57.89" E	1999 KG/1.25 MPa	DA42
R2	02° 15' 18.72" N	102° 14' 58.43" E	PCR 11/R/D/Y/U	PA34
R3	02° 15' 19.70" N	102° 14' 59.01" E	PCR 11/R/D/Y/U	PA34
R4	02° 15' 20.03" N	102° 14' 58.45" E	1999 KG/1.25 MPa	DA42

METRES
0 100 200 300 400 500
0 400 800 1200 1600
FEET

LEGEND	
AIRCRAFT STAND	6
TAXIWAY LIGHT	•
RUNWAY-HOLDING POSITION	

CHANGES: COORDINATES FOR AIRCRAFT STANDS AND AIRCRAFT TYPE
UPDATE INFORMATION ON GA APRON
PAVEMENT BEARING STRENGTH

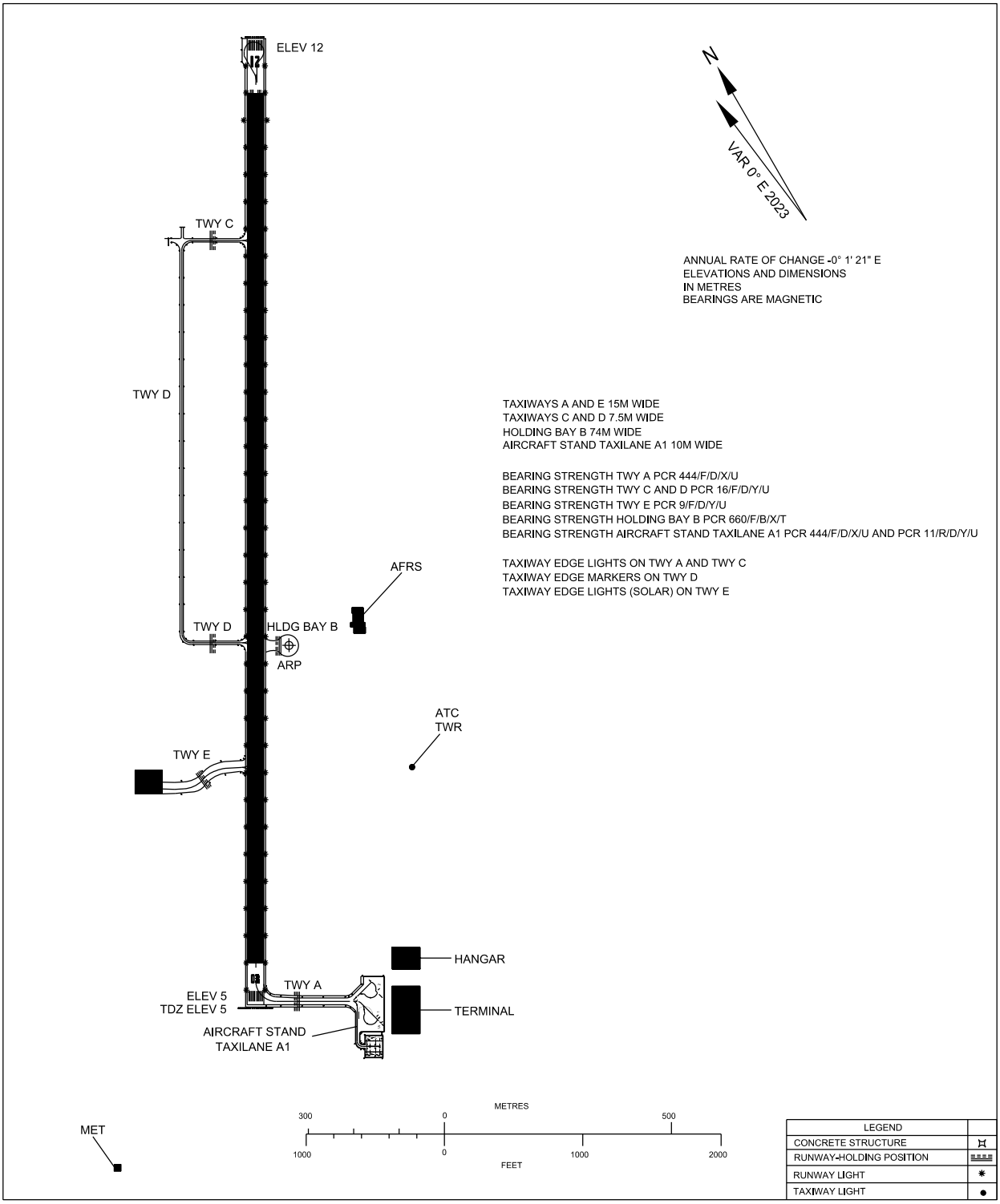
INTENTIONALLY BLANK

AERODROME GROUND MOVEMENT CHART - ICAO

APRON ELEV
4 M

TWR	118.0
SMC	121.6
ATIS	127.45

MALACCA/ MALACCA AIRPORT



CHANGES: UPDATE INFORMATION ON GA APRON PAVEMENT BEARING STRENGTH

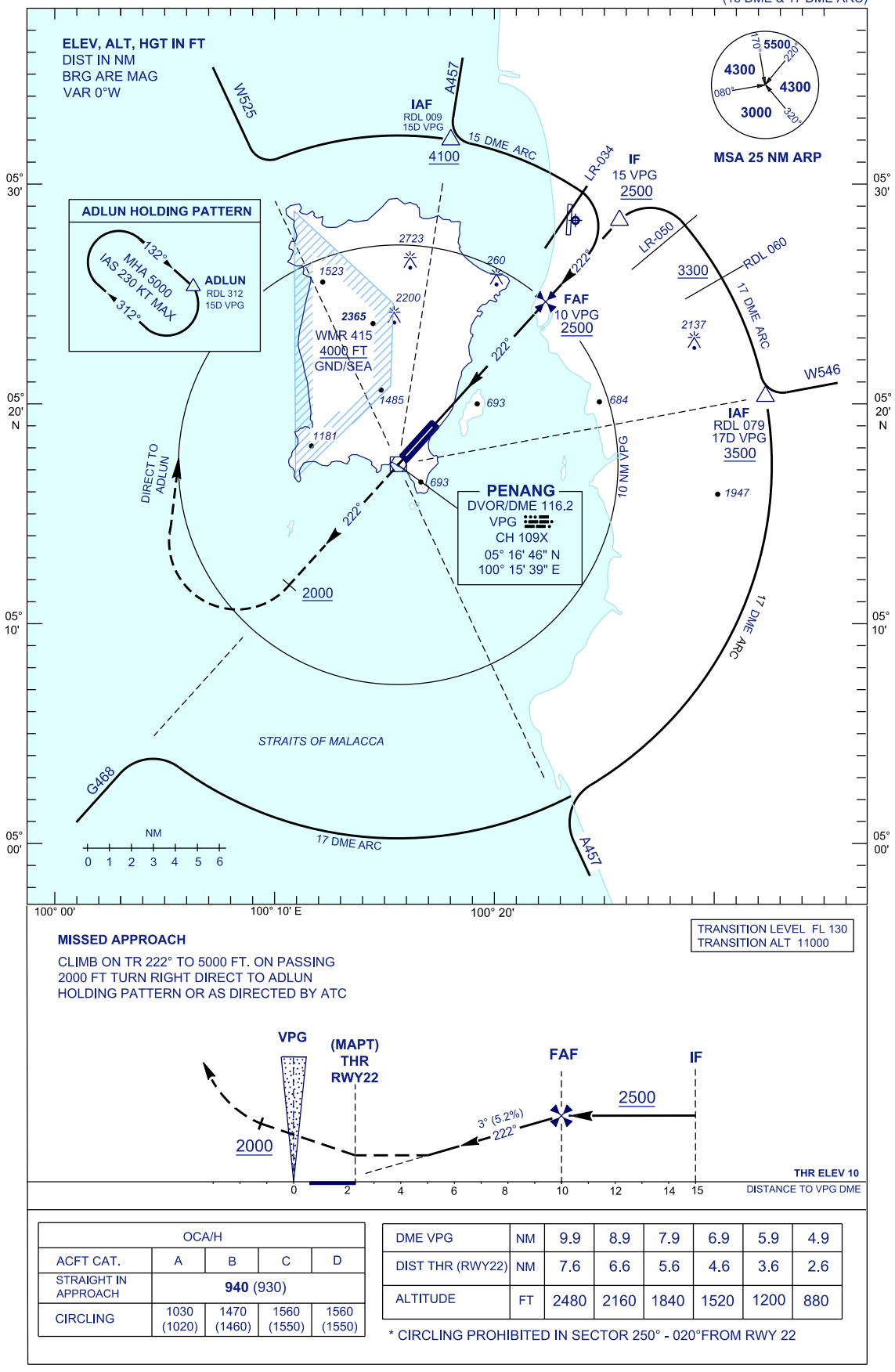
INTENTIONALLY BLANK

INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV 10 FT
HEIGHTS RELATED TO
THR RWY 22 - ELEV 10 FT

APP	125.925
TWR	121.1
SMC	121.6, 121.9
ATIS	126.4

PENANG/PENANG INTERNATIONAL AIRPORT (WMKP)
RWY 22
VOR Z
(15 DME & 17 DME ARC)



MISSED APPROACH
CLIMB ON TR 222° TO 5000 FT. ON PASSING
2000 FT TURN RIGHT DIRECT TO ADLUN
HOLDING PATTERN OR AS DIRECTED BY ATC

TRANSITION LEVEL FL 130
TRANSITION ALT 11000

OCA/H				
ACFT CAT.	A	B	C	D
STRAIGHT IN APPROACH	**940** (930)			
CIRCLING	1030 (1020)	1470 (1460)	1560 (1550)	1560 (1550)

DME VPG	NM	9.9	8.9	7.9	6.9	5.9	4.9
DIST THR (RWY22)	NM	7.6	6.6	5.6	4.6	3.6	2.6
ALTITUDE	FT	2480	2160	1840	1520	1200	880

* CIRCLING PROHIBITED IN SECTOR 250° - 020°FROM RWY 22

CHANGES : IN PROFILE VIEW CHANGE LABEL THR RWY 22 TO READ AS (MAPT) THR RWY 22, REMOVE OLD MAPT LABEL.

INSTRUMENT APPROACH CHART - ICAO

AERODROME ELEV 10 FT
HEIGHTS RELATED TO
THR RWY 22 - ELEV 10 FT

PENANG/PENANG INTERNATIONAL AIRPORT (WMKP)
RWY 22

VOR Z
(15 DME & 17 DME ARC)

AERONAUTICAL DATA TABULATION

FIX / POINT	COORDINATES	
VPG	05°16'45.84"N	100°15'38.78"E
IF (15 D VPG)	05°27'55.29"N	100°25'45.45"E
FAF (10 D VPG)	05°24'13.71"N	100°22'21.47"E
ADLUN (RDL 312/15D VPG)	05°26'51.74"N	100°04'26.76"E
RWY 22 (MAPT)	05°18'30.25"N	100°17'13.37"E

CHANGES :TO ADD THR RWY 22 COORDINATES AS A MAPT.

RWY/ Area affected	Obstacles Type Elevation Markings / LGT	Coordinates
a	b	c
Within 10NM radius of ARP	TV AND MCW TELECOM TWRS AT BKT NYABAU, 6.5KM NE of airfield, hgt of Twr up to 944FT (295M) AMSL. Marked and lgtd.	031312N 1130442E
	TELECOM TWR ERECTED AT BINTULU , hgt 147FT (45M) AMSL. Marked and lgtd.	030713N 1130136E
	TELECOM TWR ERECTED AT TANJUNG KIDURONG hgt 549FT (167M) AMSL. Marked and lgtd.	031636N 1130451E
	TELECOM TWR ERECTED AT BKT BALI BINTULU DISTRICT , hgt 520FT (158.50M) AMSL. Marked and lgtd.	031427N 1131631E
	TV BROADCAST TWR ERECTED AT BKT NYABAU, hgt 968FT (295M) AMSL Marked & Lgtd.	031310N 1130450E
	TELECOM TWR ERECTED AT BKT NYABAU , hgt 449FT (137M) AMSL Marked & Lgtd.	031307N 1130435E
	4 GIANT CHIMNEYS ERECTED AT TANJUNG KIDURONG, 5NM NE of airfield, hgt289FT (88.6M). Lgtd.	031624N 1130358E
	LNG STORAGE TANKS, PLANTS, GAS STACKS AND FLARES which may shoot up to a hgt of 1000FT, sited within 3NM radius of 031614N 1130409E, 6NM fm Bintulu AD.	031614N 1130409E
	TELECOM TWR ERECTED AT BKT NYABAU , hgt 806FT AMSL Marked & Lgtd.	031307N 1130436E
	TELECOM TWR ERECTED AT TANJUNG KIDURONG , hgt 208FT (63.50M) AMSL. Marked & Lgtd.	031636N 1130506E
	TELECOM TWR ERECTED AT BKT NYABAU , hgt 826FT (251.7M) AMSL. Marked & Lgtd.	031307N 1130436E
	TELECOM TWR ERECTED AT TANJUNG KIDURONG, Lot 802, Blk 20, Kemena Land District, hgt 317FT (96.48M).	031636N 1130506E
	TELECOM TWR ERECTED AT 11TH MILE Mile, Lot 173, Blk 27, Kemena Land District, hgt 258FT (78.72M) AMSL.	031305N 1130851E
	TELECOM TWR ERECTED AT KEMENA, Bintulu, hgt 269FT (81.96M) AMSL. Marked & Lgtd.	030913N 1130549E
	TELECOM TWR ERECTED AT BKT NYABAU, hgt 780FT (237.74M) AMSL. Marked & Lgtd.	031301N 1130430E
	TELECOM TOWER ERECTED AT LOT 148, KEMENA, hgt 258FT (78.72M) AMSL. Marked & Lgtd.	030943N 1130543E
	TELECOM TWR ERECTED AT LOT 1394, KEMENA, hgt 150FT (47.72M).	031037N 1130341E
	TELECOM TOWER ERECTED AT BANYANG , Bintulu District, hgt 450FT (137.16M) AMSL. Marked & Lgtd	030247N 1125540E
	TELECOM TWR ERECTED AT KIDURONG Area, site ID 6313, hgt 233FT (71M) AMSL. Marked & Lgtd.	031455N 1130530E
	TELECOM TWR ERECTED AT BKT NYABAU , hgt 850FT (259M) AMSL.	031301N 1130430E
	TELECOM TOWER ERECTED AT TANJUNG KIDURONG, hgt 390FT (107M) AMSL.	031633N 1130503E
	TELECOM TWR ERECTED AT BKT NYABAU , hgt 550FT (167.64M) AMSL. Marked & Lgtd.	031307N 1130422E
	TELECOM TWR ERECTED AT BKT SETIAM , hgt 2104FT (614.44M) AMSL. Marked and lgtd.	025810N 1125530E
	TELECOM TWR ERECTED AT BKT SETIAM , hgt 1949FT (594.20M) AMSL. Marked and lgtd.	025812N 1125533E
	TELECOM TWR ERECTED BKT SETIAM, hgt 2153FT (656.2M) AMSL. Marked and lgtd.	025807N 1125549E
	TELECOM TWR ERECTED AT TANJUNG KIDURONG, hgt 350FT (107M) AMSL. Marked and lgtd.	031639N 1130502E
	TELECOM TWR ERECTED AT TANJUNG KIDURONG, hgt 347FT (106M) AMSL. Marked and lgtd.	031705N 1130439E
	TELECOM TWR ERECTED AT MARINE POLICE BASE , Bintulu, hgt 88FT (26.7M) AMSL.	031008N 1130200E
	PARKCITY EVERLY HOTEL, brg 015, 3.6NM fm ARP, hgt 164.8FT (50.25M). Lgtd at night.	031101N 1130151E
	VHF RADIO MAST ERECTED AT BKT JEPAK , hgt 510FT (155M) AMSL. Marked and lgtd.	030935N 1130243E

WBGB AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	AMS BINTULU
2	Hours of service MET Office outside hours	H24
3	Office responsible for TAF preparation Periods of validity	AMO KUCHING H24 (0024 0606 1212 1818)
4	Trend forecast Interval of issuance	-
5	Briefing/consultation provided	NIL
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	No briefing and consultation but charts available upon request
8	Supplementary equipment available for providing information	Aviation Self-Briefing Terminal - ABT (Internet)
9	ATS units provided with information	Bintulu APP/TWR
10	Additional information (limitation of service, etc.)	TEL: +6086 - 334148/318191 Telefax:+6086 - 310213

WBGB AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY(M)	Strength (PCR) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
17	167.00°	2745 x 45	PCR 564 / F / A / W / U Asphalt (Flexible)	THR coordinates 030810.44N 1130101.47E RWY end coordinates 030643.16N 1130120.61E THR GUND +40.80M	THR: 10.4 M (34.1 FT) TDZ: 10.4 M (34.1 FT)
35	347.00°	2745 x 45	PCR 564 / F / A / W / U Asphalt (Flexible)	THR coordinates 030643.16N 1130120.61E RWY end coordinates 030810.44N 1130101.47E THR GUND +40.90M	THR: 23 M (75 FT)

Slope of RWY-SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
+0.448%	NIL	60 x 150	2925 x 280	Provided	RESA 90M x 90M
-0.448%	60 x 45	60 x 150	2925 x 280	-	RESA 90M x 90M

WBGJ AD 2.1 AERODROME LOCATION INDICATOR AND NAME

WBGJ - LIMBANG

WBGJ AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	044830N 1150034E Site: Right side of TWY A from Terminal view (49.9M from edge of TWY A)
2	Direction and distance from (city)	5.856KM (3.2NM) Bearing 0°40'48" from Limbang Plaza; 8.0KM by road.
3	Elevation/Reference temperature	5 M (16 FT) / 31.9°C
4	Geoid undulation at AD ELEV PSN	+41 M
5	MAG VAR/Annual change	0° W (2023)- 0° 4' 26" W decreasing
6	AD operator, address, telephone, telefax, e-mail address, AFS and website address	Operator: Malaysia Airports Sdn. Bhd. Limbang Airport 98700 Limbang Sarawak TEL: (+60) 8 5212090 Telefax: (+60) 8 5214979 e-mail: masb_lmn@malaysiaairports.com.my Http: Http://www.malaysiaairports.com.my ATC Services: Civil Aviation Authority of Malaysia Limbang Airport 98700 Limbang Sarawak Malaysia TEL:(+60) 85216822 Telefax:(+60) 85212872 TEL:(+60) 85217679 (Tower) Telefax:(+60) 85217680 (Tower)
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	NIL

WBGJ AD 2.3 OPERATIONAL HOURS

1	AD Operator	22:30-10:30 UTC Daily
2	Customs and immigration	Immigration: Available for schedule flights. Other flights on request.
3	Health and sanitation	NIL
4	AIS Briefing Office	In Control Tower during AD operating hrs
5	ATS Reporting Office (ARO)	In Control Tower during AD operating hrs
6	MET Briefing Office	H24
7	ATS	2300 - 0900
8	Fuelling	NIL
9	Handling	By prior arrangement with Malaysia Airlines.
10	Security	H24
11	De-icing	NIL
12	Remarks	NIL

WBGJ AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	By prior arrangement with Malaysia Airlines.
2	Fuel/oil types	NIL
3	Fuelling facilities/capacity	NIL
4	De-icing facilities	NIL
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	NIL
7	Remarks	NIL

WBGJ AD 2.5 PASSENGER FACILITIES

1	Hotels	In town.
2	Restaurants	At airport terminal.
3	Transportation	Taxi.
4	Medical facilities	Limbang Hospital.
5	Bank and Post Office	In town
6	Tourist Office	NIL
7	Remarks	NIL

WBGJ AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 5
2	Rescue equipment	Adequately provided as recommended by ICAO
3	Capability for removal of disabled aircraft	By arrangement with the respective airline and ground handler. a) Largest aircraft - ATR 72-500
4	Remarks	All Airport Fire & Rescue Service (AFRS) personnel are to be well trained in rescue and firefighting as well as medical first aid.

WBGJ AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Types of clearing equipment	-
2	Clearance priorities	-
3	Remarks	-

WBGJ AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

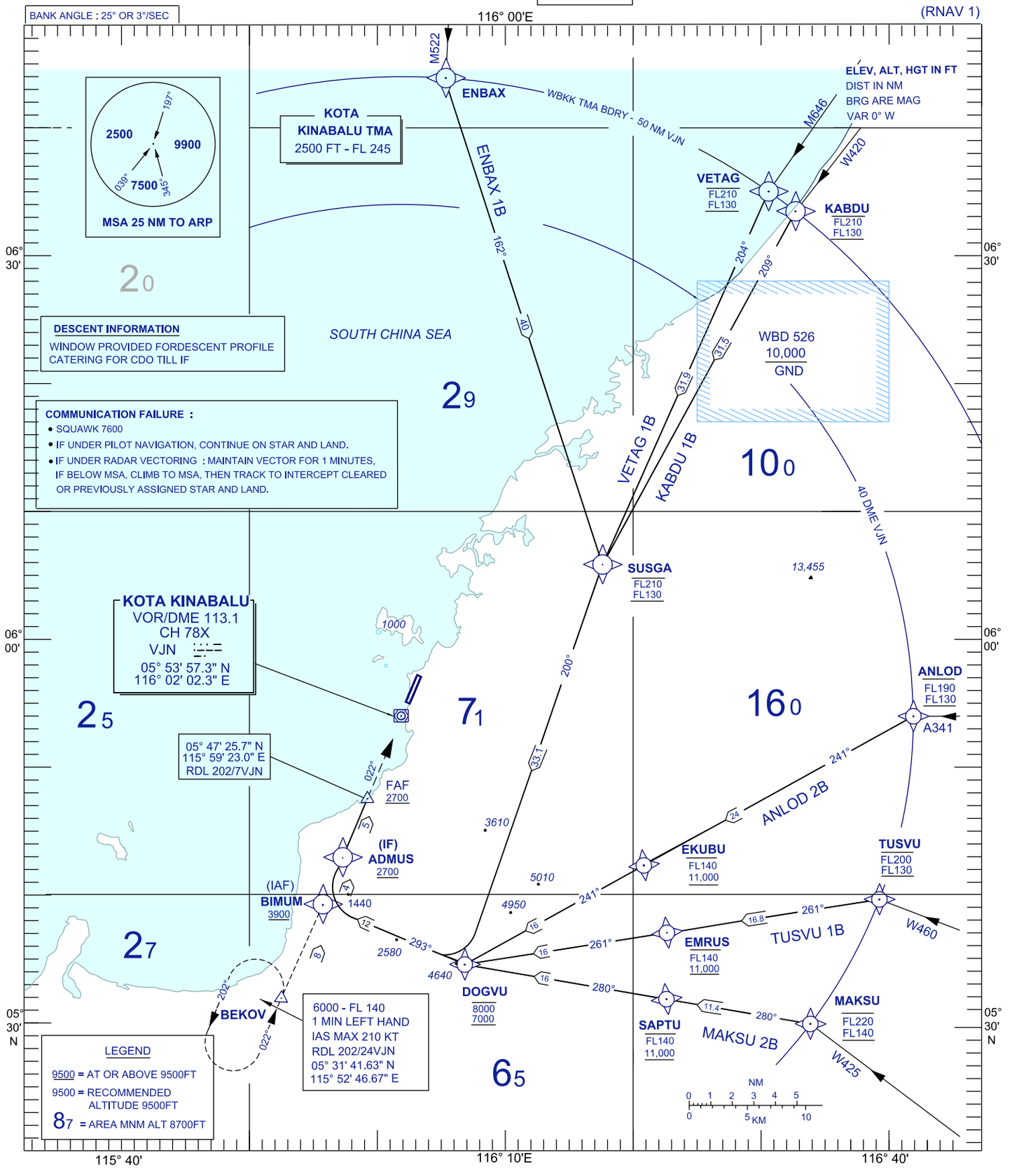
1	Apron surface and strength	**Bay 1 and Bay 2** Surface: Asphalt (Flexible) Concrete (Rigid) Strength: PCR 135 / F / C / W / U PCR 150 / R / C / W / U Bay 3 Surface: Asphalt (Flexible) Concrete (Rigid) Strength: 5670 kg / No pressure limit.

STANDARD ARRIVAL CHART INSTRUMENT (STAR) - ICAO

TRANSITION ALTITUDE
11,000 FT

TWR	118.30
APP	119.10
SMC	121.60
ATIS	127.40

KOTA KINABALU/KOTA KINABALU (WBKK)
RWY 02
ARRIVALS (EAST)
(RNAV 1)



CHANGES : TRACK FROM WAYPOINT SUSGA TO DOGVU 203° TO READ AS 200° AND DISTANCE 36.6 TO READ AS 33.1.

STANDARD ARRIVAL CHART INSTRUMENT (STAR) - ICAO

TRANSITION ALTITUDE
11 000 FT

KOTA KINABALU/KOTA KINABALU (WBKK)
RWY 02

ARRIVALS (EAST)
(RNAV 1)

TABULAR DESCRIPTION

ROUTE DESIGNATOR	SERIAL NUMBER	PATH DESCRIPTOR	WP IDENTIFIER	FLY OVER	COURSE/ °M(°T)	MAGNETIC VARIATION	DISTANCE (NM)	TURN DIRECTION	ALTITUDE (FT)	SPEED (KT) IAS MAX	NAVIGATION SPECIFICATION
ENBAX 1B	010	IF	ENBAX	-	-	-	-	-	-	-	RNAV 1
	020	TF	SUSGA	-	162°	-	40	-	- FL210 + FL130	-	RNAV 1
	030	TF	DOGVU	-	200°	-	33.1	R	- 8000 +7000	-	RNAV 1
	040	TF	BIMUM	-	293°	-	12	R	+3900	185	RNAV 1
	050	TF	ADMUS	-	022°	-	4	R	+2700	185	RNAV 1
VETAG 1B	010	IF	VETAG	-	-	-	-	-	- FL210 + FL130	-	RNAV 1
	020	TF	SUSGA	-	204°	-	31.9	L	- FL210 + FL130	-	RNAV 1
	030	TF	DOGVU	-	200°	-	33.1	R	- 8000 +7000	-	RNAV 1
	040	TF	BIMUM	-	293°	-	12	R	+3900	185	RNAV 1
	050	TF	ADMUS	-	022°	-	4	R	+2700	185	RNAV 1
KABDU 1B	010	IF	KABDU	-	-	-	-	-	- FL210 + FL130	-	RNAV 1
	020	TF	SUSGA	-	209°	-	31.5	L	- FL210 + FL130	-	RNAV 1
	030	TF	DOGVU	-	200°	-	33.1	R	- 8000 +7000	-	RNAV 1
	040	TF	BIMUM	-	293°	-	12	R	+3900	185	RNAV 1
	050	TF	ADMUS	-	022°	-	4	R	+2700	185	RNAV 1
ANLOD 2B	010	IF	ANLOD	-	-	-	-	-	- FL190 +FL130	-	RNAV 1
	020	TF	EKUBU	-	241°	-	24	-	-FL140 +11000	-	RNAV 1
	030	TF	DOGVU	-	241°	-	16	-	- 8000 +7000	-	RNAV 1
	040	TF	BIMUM	-	293°	-	12	R	+3900	185	RNAV 1
	050	TF	ADMUS	-	022°	-	4	R	+2700	185	RNAV 1
TUSVU 1B	010	IF	TUSVU	-	-	-	-	-	- FL200 +FL130	-	RNAV 1
	020	TF	EMRUS	-	261°	-	16.8	-	- FL140 +11000	-	RNAV 1
	030	TF	DOGVU	-	261°	-	16	-	- 8000 +7000	-	RNAV 1
	040	TF	BIMUM	-	293°	-	12	R	+3900	185	RNAV 1
	050	TF	ADMUS	-	022°	-	4	R	+2700	185	RNAV 1
MAKSU 2B	010	IF	MAKSU	-	-	-	-	-	- FL220 + FL140	-	RNAV 1
	020	TF	SAPTU	-	280°	-	11.4	-	- FL140 +11000	-	RNAV 1
	030	TF	DOGVU	-	280°	-	16	-	- 8000 +7000	-	RNAV 1
	040	TF	BIMUM	-	293°	-	12	R	+3900	185	RNAV 1
	050	TF	ADMUS	-	022°	-	4	R	+2700	185	RNAV 1

CHANGES : IN TABULAR DESCRIPTION, FOR ENBAX 1B, VETAG 1B AND KABDU 1B CHANGE COURSE/M° 203° TO READ AS 200° AND DISTANCE (NM) 36.6 TO READ AS 33.1.

WBKS AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	Bay 1, Bay 1A and Bay 1B Surface: Concrete (Rigid and) Asphalt (Flexible) Strength: PCR 157 / R / D / W / U and PCR 135 / F / C / W / U Bay 2 Surface: Concrete (Rigid) and Asphalt (Flexible) Strength: PCR 704 / R / D / W / U and PCR 574 / F / C / W / U Bay 3 Surface: Concrete (Rigid) and Asphalt (Flexible) Strength: PCR 704 / R / D / W / U and PCR 524 / F / B / W / U Bay 4 and Bay 5 Surface: Concrete (Rigid) and Asphalt (Flexible) Strength: PCR 704 / R / D / W / U and PCR 524 / F / B / W / U Bay 5A Surface: Concrete (Rigid) and Asphalt (Flexible) Strength: PCR 354 / R / D / W / U and PCR 292 / F / B / W / U Bay H1 Surface: Asphalt (Flexible) Strength: 7 Tonnes
2	Taxiway width, surface and strength	Taxiway **A** Width: 29 M Surface: Asphalt (Flexible) Strength: PCR 524 / F / B / W / U Taxiway B and Apron Taxiway Width: 15 M Surface: Asphalt (Flexible) Strength: PCR 574 / F / C / W / U Aircraft Stand Taxilane B1 Width: 15 M Surface: Asphalt (Flexible) Strength: 7 Tonnes
3	Altimeter checkpoint location and elevation	Location: Apron Elevation: 13 M
4	VOR checkpoints	NIL
5	INS checkpoints	Refer to Aircraft Parking Docking Chart (See AD 2-WBKS-2-3)
6	Remarks	1. Parking Bay 1A and Bay 1B is restricted to AT75 or smaller aircraft. 2. H1 and Aircraft Stand Taxilane B1 are available for daylight operation only.

WBKS 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 RWY Holding Position. Guide lines at apron for all parking bays. VDGS for Bay 2 and 3. Nose wheel guidance line.
2	RWY and TWY markings and LGT	RWY markings : Designation, threshold, side stripe, transverse stripe, centre line, touchdown zone, aiming point and runway turn pad markings. RWY LGT : Threshold, edge and end lights. Stopway light for RWY 08 only. TWY markings : Centre line, taxi side stripe, runway-holding position, intermediate holding position and transverse stripe markings. TWY LGT : Centre line (on curve and exit taxiway) and edge lights.
3	Stop bars	NIL
4	Remarks	Pilot to exercise caution when taxing to holding position.

WBKS AD 2.10 AERODROME OBSTACLES

RWY / Area effected	Obstacles Type Elevation Markings / LGT	Coordinates
a	b	c
	AERIAL MAST, HGT 150M. Painted red and white and LGTD.	055814.6N 1180058.4E
	ANTENNA, DIST 295.2 M FM THR RWY 08 and 120 M FM RCL, HGT 16.5M. Marked and LGTD.	055402.41N 1180257.64E
	WINDSOCK AERIAL MAST, on MT Mekarah, 5 NM south of Sandakan AD, HGT 1140 FT (347M) MSl. LGTD and painted red and white.	055033.7N 1180542.4E
	ANTENNA, No. 211, Jalan Kem 22 RAMD, HGT 37 M.	0553.409N 11803.608E
	ANTENNA, No. 155 Jalan Tinusa, HGT 17 M.	0553.434N 11804.926E
	BUILDING, 105 Kampung. Sungai Kayu, HGT 40 M.	0554.386N 11802.821E
	ATC TOWER, HGT 26 M.	0553.797N 11803.918E
	ANTENNA 07 WBKS at the Airport Rescue and Fire Fighting Services Building, HGT 26M.	0553.820N 11803.529E
	TELECOMMUNICATION TOWER, ATM Sri Kinabatangan Camp, HGT 59M, LGTD.	055248N 1180359E
	TELECOMMUNICATION TOWER, 8 Mile, Sandakan, hgt 54.2M, LGTD.	055243N 1180140E

WBKS AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	AMS SANDAKAN
2	Hours of service MET Office outside hours	H24
3	Office responsible for TAF preparation Periods of validity	AMO KOTA KINABALU H24(0024 0606 1212 1818)
4	Trend forecast Interval of issuance	-
5	Briefing/consultation provided	NIL
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	No briefing and consultation but charts available upon request

8	Supplementary equipment available for providing information	Aviation Self-Briefing Terminal - ABT (Internet)
9	ATS units provided with information	Sandakan APP / TWR
10	Additional information (limitation of service, etc.)	TEL: +6089 - 660535 Telefax:+6089 - 669479 Wind and RWY Visual Range (WRVR) System equipped for RWY08 and RWY26

WBKS AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY(M)	Strength (PCR) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
08	80.26°	2500 x 45	PCR 574 / F / C / W / U - 367 M Asphalt (Flexible) PCR 524 / F / B / W / U - 1983 M Asphalt (Flexible) PCR 685 / R / C / W / U - 150 M Concrete (Rigid)	THR coordinates 055357.15N 1180248.95E RWY end coordinates 055410.24N 1180409.00E THR GUND +66.7 M	THR elevation: 9.6 M 31.6 FT TDZ elevation: 13.0 M 42.7 FT
26	260.26°	2500 x 45	PCR 685 / R / C / W / U - 150 M Concrete (Rigid) PCR 524 / F / B / W / U - 1983 M Asphalt (Flexible) PCR 574 / F / C / W / U - 367 M Asphalt (Flexible)	THR coordinates 055410.24N 1180409.00E RWY end coordinates 055357.15N 1180248.95E THR GUND +54 M	THR elevation: 6 M 20 FT

Slope of RWY-SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
-0.141%	60 x 45	NIL	2680 x 280	NIL	RESA 90 M x 90 M
+0.141%	NIL	NIL	2680 x 280	NIL	RESA 90 M x 90 M

WBKS AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
08	2500	2500	2560	2500	NIL
26	2500	2500	2500	2500	NIL

WBKS AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ LGT LEN	RWY Centre Line LGT LEN, Spacing, colour, INTST	RWY edge LGT LEN, spacing, colour, INTST	RWY End LGT colour WBAR	SWY LGT LEN colour	Remarks
1	2	3	4	5	6	7	8	9	10
08	CAT1 900M LIH	Green -	PAPI Left & Right / Slope 3° 15.2 M (49.9 FT)	NIL	NIL	2500 M, 60 M, Variable White/ Yellow, LIH	Red -	61 M Red	NIL
26	SALS 420M LIH	Green -	PAPI Left & Right / Slope 3° 14.3 M (46.9 FT)	NIL	NIL	2500 M, 60 M, Variable White/ Yellow, LIH	Red -	NIL	NIL

WBKS AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and operational hours	ABN: Available on top of Control Tower, FLG Green and White 20 to 30 per minute IBN: NIL ON at night and during bad weather.
2	LDI location and LGT Anemometer location and LGT	LDI: NIL Wind direction indicator (WDI) RWY 08: 301.25M from THR on right, 118M from RWY centre line and lighted. RWY 26: 356M from THR on left,122M from RWY centre line and lighted.
3	TWY edge and centre line lighting	TWY edge lights - TWY A & TWY B TWY centre line lights - TWY A & TWY B (on curve and exit)
4	Secondary power supply/switch-over time	Secondary power supply to all AGL at AD Switch-over time: Maximum 15 seconds
5	Remarks	NIL

WBKS AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO Geoid undulation	NIL
2	TLOF and/or FATO elevation M/FT	NIL
3	TLOF and FATO area dimensions, surface, strength, marking	NIL
4	True BRG of FATO	NIL
5	Declared distance available	NIL
6	APP and FATO lighting	NIL
7	Remarks	Helicopter parking is available at Helipad (H1) with D-value of 17M and below.

WBKS AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	SANDAKAN CTR A circle of 25NM radius centred from VSN DVOR/DME (055413.62N 1180429.55E).
2	Vertical limits	SFC to 7 500 FT AMSL

3	Airspace classification	C
4	ATS unit call sign Language(s)	SANDAKAN TOWER English
5	Transition altitude	11 000 FT AMSL
6	Remarks	Transition Level FL130

WBKS AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
SMC	SANDAKAN GROUND	121.900 MHZ	2300 - 1400	-
TWR	SANDAKAN TOWER	122.050 MHZ * 121.500 MHZ		* Emergency frequency
APP	SANDAKAN APPROACH	123.200 MHZ		-
ATIS	SANDAKAN INFORMATION	128.200 MHZ		

WBKS AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, MAG VAR, CAT of ILS/MLS (For VOR/ILS/MLS, give declination)	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
ILS/LOC	ISKN	109.300 MHZ	H24	055411.73N 1180418.67E	-	ILS reference Datum 51 FT. Antenna Elevation: 17.06 M
GP/DME	-	332.000 MHZ CH 30X		055402N 1180258E	-	Antenna Elevation: 23.61M
DVOR/DME	VSN	114.000 MHZ CH 87X		055413.62N 1180429.55E	-	Antenna Elevation: 19.88 M

WBKS AD 2.20 LOCAL AERODROME REGULATIONS

2.20.1. No back tracking on runway for aircraft type B737 and above. Use runway turn pads.

2.20.2. Restricted route for C130 operations is Taxiway A and parking at Bay 5A.

2.20.3. **Arriving Aircraft Parking Arrangement at Main Apron**

2.20.3.1 When Bay 1 is occupied, no aircraft are allowed to be parked at Bay 1A and Bay 1B.

2.20.3.2 When Bay 1A is occupied, no aircraft is allowed to be parked at Bay 1B and vice versa.

2.20.3.3 When Bay 2 is occupied, no aircraft is allowed to be parked at Bay 1A and vice versa.

2.20.3.4 When Bay 5 is occupied, no aircraft are allowed to be parked at Bay 5A and vice versa.

2.20.3.5 No simultaneous aircraft movement is allowed either power-in, push back and power-out at the apron.

2.20.4. Arriving Aircraft Parking Arrangement at H1 and Aircraft Stand Taxilane B1

2.20.4.1 Helicopters that are larger than AW139 are not allowed to operate at the helipad (H1) without proper coordination and arrangement with the ATC and the Operations Unit of Malaysia Airports.

2.20.4.2 Helicopters intended to use the Helipad (H1) shall hold short at runway-holding position Taxiway A or Taxiway B and pilots shall obtain approval from ATC to enter the Helipad (H1).

2.20.4.3 No simultaneous aircraft movements are allowed either power-in or power-out at Bay 1B and Helicopters at Aircraft Stand Taxilane B1 & Helipad (H1).

2.20.4.4 No simultaneous aircraft movements are allowed at Taxiway B and Helicopters at Aircraft Stand Taxilane B1 & Helipad (H1).

WBKS AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

WBKS AD 2.22 FLIGHT PROCEDURES

NIL

WBKS AD 2.23 ADDITIONAL INFORMATION

2.23.1. Concentration of birds within the vicinity of the Aerodrome. Pilot to exercise caution during landing and take-off.

2.23.2. All aircraft are not allowed to make locked wheel turn on the runway.

2.23.3. Pilot to exercise caution on the aerodrome non-conforming issues as follows:

2.23.3.1 The spacing of runway edge lights are not uniformly spaced and the distance between lights is within 60 M.

2.23.3.2 Portion of the perimeter road and security fencing located within runway strips at RWY 26.

AERODROME/HELIPORT CHART - ICAO

05°54'03"N
118°03'41"E

ELEV 13 M

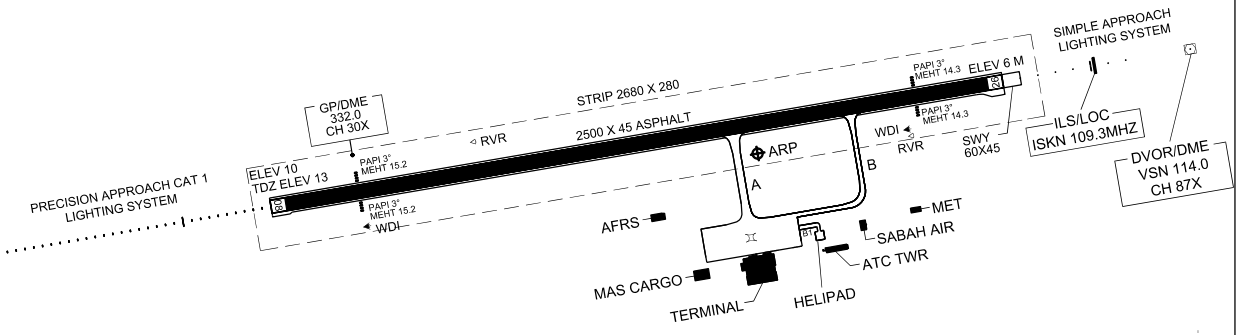
TWR	122.05
	121.5
SMC	121.9
ATIS	128.2
APP	123.2

SANDAKAN/ SANDAKAN AIRPORT

RWY	DIRECTION	THR	BEARING STRENGTH
08	080°	05° 53' 57.15" N 118° 02' 48.95" E	574 / F / C / W / U - 367 M ASPHALT (FLEXIBLE) 524 / F / B / W / U - 1983 M ASPHALT (FLEXIBLE) 685 / R / C / W / U - 150 M CONCRETE (RIGID)
26	260°	05° 54' 10.24" N 118° 04' 09.00" E	685 / R / C / W / U - 150 M CONCRETE (RIGID) 524 / F / B / W / U - 1983 M ASPHALT (FLEXIBLE) 574 / F / C / W / U - 367 M ASPHALT (FLEXIBLE)

N
VAR 0° W 2024

ANNUAL RATE OF CHANGE -0° 5' 11" W
ELEVATIONS AND DIMENSIONS IN METRES
BEARINGS ARE MAGNETIC



TAXIWAY A 29M WIDE
TAXIWAY B 15M WIDE
APRON TAXIWAY 15M WIDE
AIRCRAFT STAND TAXILANE B1 15M

BEARING STRENGTH TWY A PCR 524 / F / B / W / U
BEARING STRENGTH TWY B PCR 574 / F / C / W / U
BEARING STRENGTH APRON TAXIWAY PCR 574 / F / C / W / U
BEARING STRENGTH AIRCRAFT STAND TAXILANE B1 7 TONNES

TAXIWAY EDGE LIGHTS ON TWY A & TWY B
TAXIWAY CENTRE LINE LIGHTS ON CURVE AND EXIT TWY A & TWY B

METRES
0 100 200 300 400 500 1000
0 400 800 1200 1600 2000 2400 2800 3200
FEET

LEGEND	
CONCRETE STRUCTURE	

CHANGES: THR COORDINATES

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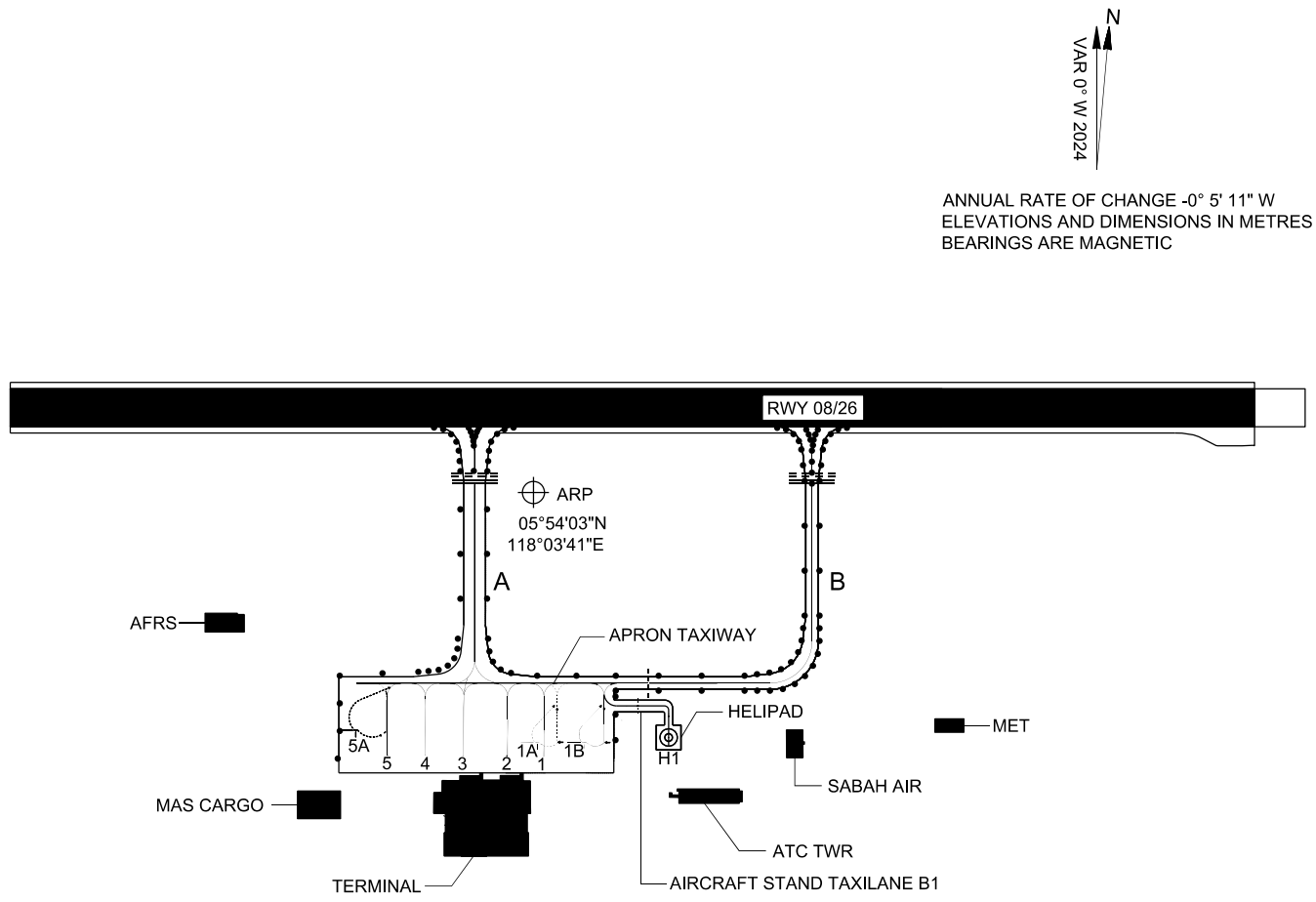
AIRCRAFT PARKING/ DOCKING CHART - ICAO

APRON ELEV
13 M

TWR	122.05
	121.5
SMC	121.9
ATIS	128.2
APP	123.2

SANDAKAN/ SANDAKAN AIRPORT



AIRCRAFT PARKING/DOCKING STAND POSITION

INS COORDINATES FOR AIRCRAFT STANDS			SURFACE & STRENGTH	AIRCRAFT TYPE
1	05° 53' 52.63" N	118° 03' 44.08" E	PCR 157 / R / D / W / U & PCR 135 / F / C / W / U	AT75
1A	05° 53' 53.08" N	118° 03' 43.89" E	PCR 157 / R / D / W / U & PCR 135 / F / C / W / U	AT75
1B	05° 53' 53.30" N	118° 03' 45.59" E	PCR 157 / R / D / W / U & PCR 135 / F / C / W / U	AT75
2	05° 53' 52.42" N	118° 03' 42.70" E	PCR 704 / R / D / W / U & PCR 574 / F / C / W / U	A320, A21N, B738, B38M
3	05° 53' 52.15" N	118° 03' 41.03" E	PCR 704 / R / D / W / U & PCR 524 / F / B / W / U	A320, A21N, B738, B38M
4	05° 53' 51.91" N	118° 03' 39.56" E	PCR 704 / R / D / W / U & PCR 524 / F / B / W / U	A320, A21N, B738, B38M
5	05° 53' 51.56" N	118° 03' 38.12" E	PCR 704 / R / D / W / U & PCR 524 / F / B / W / U	A320, A21N, B738, B38M
5A	05° 53' 52.34" N	118° 03' 36.82" E	PCR 354 / R / D / W / U & PCR 292 / F / B / W / U	C130
H1	05° 53' 54.00" N	118° 03' 48.69" E	ASPHALT - 7 Tonnes	Helicopter (AW139)

LEGEND	
AIRCRAFT STAND	5
TAXIWAY LIGHT	•
RUNWAY-HOLDING POSITION	≡≡≡≡
INTERMEDIATE HOLDING POSITION	----
CONCRETE STRUCTURE	⌶

CHANGES: INFORMATION PAVEMENT STRENGTH & AIRCRAFT TYPE AT BAY 5A

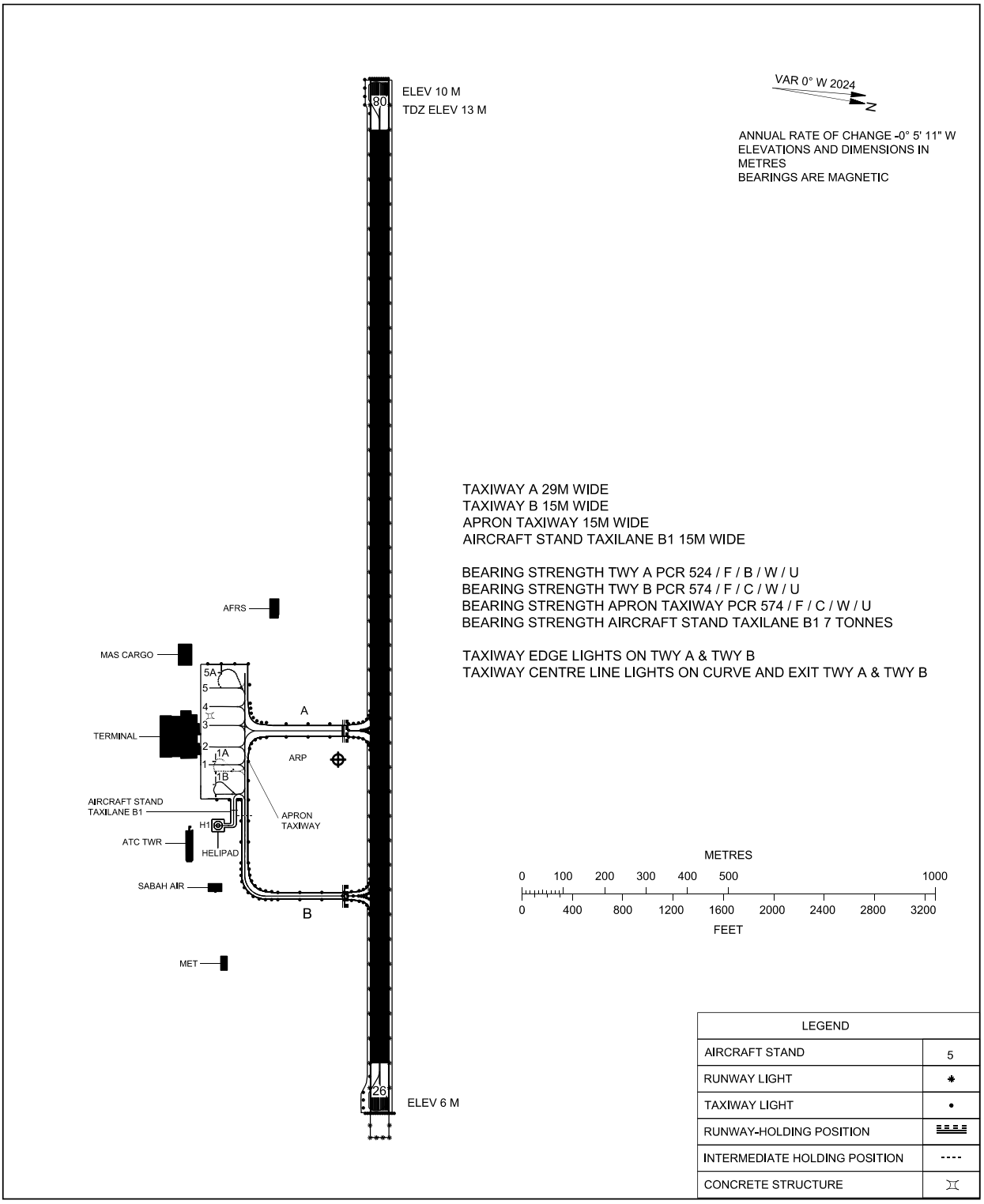
INTENTIONALLY BLANK

AERODROME GROUND MOVEMENT CHART - ICAO

APRON ELEV
13 M

TWR	122.05
	121.5
SMC	121.9
ATIS	128.2
APP	123.2

SANDAKAN/ SANDAKAN AIRPORT



CHANGES: ADD RUNWAY TURN PAD MARKINGS

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WBGM AD 2.1 AERODROME LOCATION INDICATOR AND NAME

WBGM - MARUDI

WBGM AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	041044N 1141940E Site: 38.0M from RWY Centreline and 48.0M from TWY A Centreline
2	Direction and distance from (city)	0.25KM (0.13NM). Bearing 74°10'55" from Marudi Hospital
3	Elevation/Reference temperature	24M(79FT) / 32°C
4	Geoid undulation at AD ELEV PSN	+44M
5	MAG VAR/Annual change	0° W (2019) -0.07° decreasing
6	AD operator, address, telephone, telefax, e-mail address, AFS and website address	Operator: Malaysia Airports Sdn Bhd Padang Terbang Marudi Jalan Limbang, Marudi 98050 Baram Sarawak Malaysia TEL: +6085 - 755220 Telefax: +606 - 3175214 Website: www.malaysiaairports.com.my ATC Services: Civil Aviation Authority of Malaysia Padang Terbang Marudi Jalan Limbang 98050 Marudi Sarawak Malaysia TEL: +6085 - 755069 Telefax:+6085 - 756504 e-mail: dcamarudi@caam.gov.my
7	Types of traffic permitted (IFR/VFR)	VFR
8	Remarks	NIL

WBGM AD 2.3 OPERATIONAL HOURS

1	AD Operator	HJ
2	Customs and immigration	NIL
3	Health and sanitation	Available on request.
4	AIS Briefing Office	NIL
5	ATS Reporting Office (ARO)	NIL
6	MET Briefing Office	NIL
7	ATS	HJ
8	Fuelling	NIL
9	Handling	Handling facilities available prior arrangement.
10	Security	HJ
11	De-icing	NIL
12	Remarks	NIL

WBGM AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	NIL

2	Fuel/oil types	NIL
3	Fuelling facilities/capacity	NIL
4	De-icing facilities	NIL
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	NIL
7	Remarks	NIL

WBGM AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotel in town
2	Restaurants	Restaurant in town
3	Transportation	Local taxi and local transports
4	Medical facilities	Marudi Hospital in town
5	Bank and Post Office	Bank and Post Office available in town
6	Tourist Office	NIL
7	Remarks	NIL

WBGM AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	NIL
2	Rescue equipment	Available 4x4 vehicle equipped with 50KG (3 unit) dry chemical powders.
3	Capability for removal of disabled aircraft	With arrangement with the respective airline and ground handler. a) Largest aircraft - DHC6
4	Remarks	All Airport Fire & Rescue Service (AFRS) personnel are to be well trained in rescue and firefighting as well as medical first aid.

WBGM AD 2.7 SEASONAL AVAILABILITY - CLEARING

1	Types of clearing equipment	NIL
2	Clearance priorities	NIL
3	Remarks	NIL

WBGM AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	Bay 1 and Bay 2 Surface : Asphalt (Flexible) Strength : 5670 KG / 0.50 MPa
2	Taxiway width, surface and strength	Taxiway A Taxiway Width : 16M Surface : Asphalt (Flexible) Strength : 5670 KG / 0.50 MPa
3	Altimeter checkpoint location and elevation	Location: At apron Elevation: 23M (75FT)
4	VOR checkpoints	NIL
5	INS checkpoints	At aircraft parking stands (See AD 2-WBGM-2-3)
6	Remarks	NIL

WBGM 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 RWY Holding positions. Yellow taxiing guidelines at aprons
2	RWY and TWY markings and LGT	RWY markings : Designation, threshold, transverse stripe, centre line aiming point markings. TWY markings : Centre line, taxi side stripe and runway - holding position markings. LGT : NIL
3	Stop bars	NIL
4	Remarks	NIL

WBGM AD 2.10 AERODROME OBSTACLES

RWY / Area affected	Obstacles Type Elevation Markings / LGT	Coordinates
a	b	c
-	TELECOM TOWER AT BUKIT DABEI hgt 127FT (389M) AMSL. Marked and lgtd.	041126.2N 1142621.1E
-	TELECOM TOWER AT BUKIT DABEI hgt 1201FT (366.20M) AMSL. Marked and lgtd.	041129.2N 1142621.1E
-	TELECOM TOWER AT MIRI BUKIT LAMBIR hgt 1033FT (315M) AMSL. Marked and lgtd.	041129.2N 1140256.2E
-	TELECOM TOWER AT BUKIT PANTU BURI hgt 956FT (291.44M) AMSL. Marked and lgtd.	041331.2N 1140632.2E
-	TELECOM TOWER AT MARUDI TOWN (site 1D 6443) hgt 170FT (51.72M) AMSL. Marked and lgtd.	041114.2N 1142010.1E
-	Crane erected at the bridge construction site at (Baram River Ferry Terminal) Height 250FT AGL	041039.0N 1141919.0E
-	Incinerator erected (Marudi Hospital), hgt 20M AGL, aprx 70M right of centreline RWY 10 and 250M fm airport terminal building	-

WBGM AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	AMS MIRI
2	Hours of service MET Office outside hours	H24
3	Office responsible for TAF preparation Periods of validity	AMO KUCHING H24(0024 0606 1212 1818)
4	Trend forecast Interval of issuance	NIL
5	Briefing/consultation provided	NIL
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	No briefing and consultation but charts available upon request
8	Supplementary equipment available for providing information	NIL
9	ATS units provided with information	MARUDI TWR
10	Additional information (limitation of service, etc.)	NIL

WBGM AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY(M)	Strength (PCN) and surface of RWY and SWY	THR coordinates RWY end coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
10	103.15°	834 x 24	5670 KG / 0.50 MPa Asphalt (Flexible)	THR Coordinate 041046.57N 1141935.92E RWY End coordinate 041040.39N 1142002.26E GUND +44M	THR elevation: 23M (75FT)
28	283.15°	834 x 24	5670 KG / 0.50 MPa Asphalt (Flexible)	THR Coordinate 041040.39N 1142002.26E RWY End coordinate 041046.57N 1141935.92E GUND +44M	THR elevation: 24M (79FT)

Slope of RWY-SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
+0.151%	NIL	NIL	894 x 60	NIL	NIL
-0.151%	NIL	NIL	894 x 60	NIL	NIL

WBGM AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
10	834	834	834	834	NIL
28	834	834	834	834	NIL

WBGM AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ, LGT LEN	RWY Centre Line LGT Length, spacing, colour, INTST	RWY edge LGT LEN, spacing, colour INTST	RWY End LGT colour WBAR	SWY LGT LEN (M) colour	Remarks
1	2	3	4	5	6	7	8	9	10
10	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
28	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

AERODROME/HELIPORT CHART - ICAO

04° 10' 44" N
114° 19' 40" E

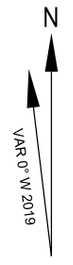
ELEV 24 M

TWR 122.4

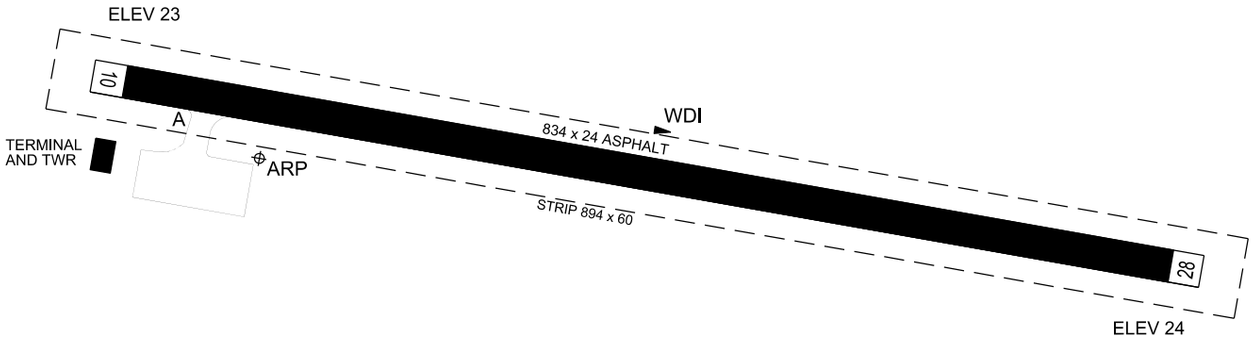
MARUDI/ MARUDI AIRPORT

RWY	DIRECTION	THR	BEARING STRENGTH
10	103°	04° 10' 46.57" N 114° 19' 35.92" E	5670KG/0.50MPA ASPHALT
28	283°	04° 10' 40.39" N 114° 20' 02.26" E	

INS COORDINATES FOR AIRCRAFT STANDS	BEARING STRENGTH	AIRCRAFT TYPE
1 04° 10' 44.22" N 114° 19' 37.22" E	5670KG/0.50MPA ASPHALT	DHC6
2 04° 10' 43.91" N 114° 19' 38.30" E	5670KG/0.50MPA ASPHALT	DHC6

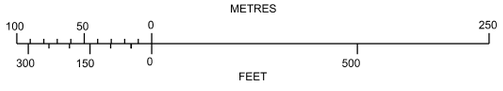


ANNUAL RATE OF CHANGE -0.07° W
ELEVATIONS AND DIMENSIONS IN METRES
BEARINGS ARE MAGNETIC



TAXIWAY A 16M WIDE

BEARING STRENGTH TWY A 5670KG/0.50MPA (ASPHALT)



CHANGES : ADD INFO PAVEMENT STRENGTH
COORDINATES FOR AIRCRAFT STANDS
UPDATE LOCATION WDI

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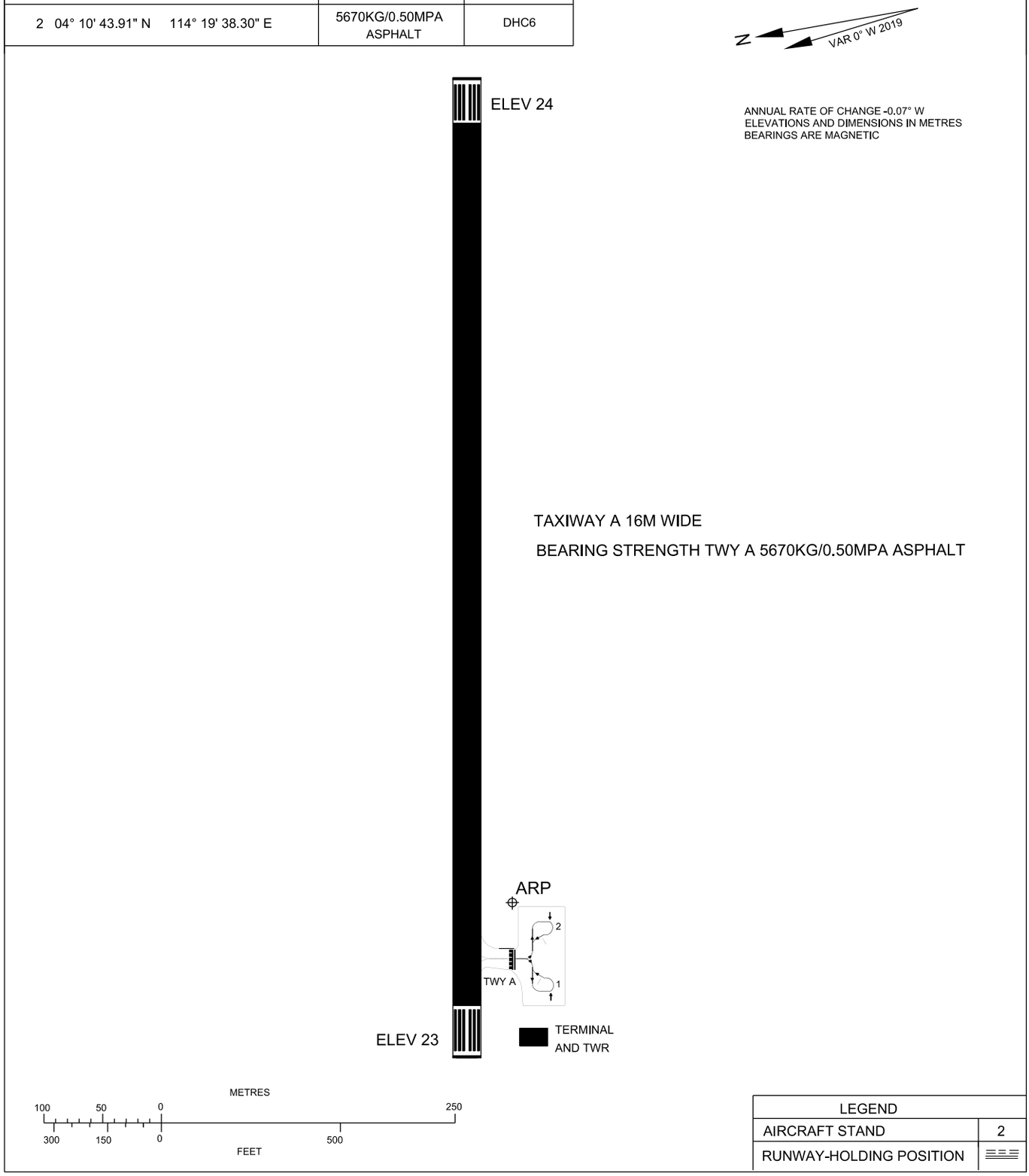
AERODROME GROUND MOVEMENT CHART - ICAO

APRON ELEV
23 M

TWR 122.4

MARUDI/ MARUDI AIRPORT

INS COORDINATES FOR AIRCRAFT STANDS	BEARING STRENGTH	AIRCRAFT TYPE
1 04° 10' 44.22" N 114° 19' 37.22" E	5670KG/0.50MPA ASPHALT	DHC6
2 04° 10' 43.91" N 114° 19' 38.30" E	5670KG/0.50MPA ASPHALT	DHC6



CHANGES : ADD INFO PAVEMENT STRENGTH
COORDINATES FOR AIRCRAFT STANDS

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