WARA AD 2.1 AERODROME LOCATION INDICATOR AND NAME

WARA - MALANG / Abdul Rachman Saleh

WARA AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

ARP coordinates and site at AD	075546S 1124243E
Direction and distance from (city)	NIL, 7 KM
Elevation/Reference temperature & Mean low temperature	1729ft / 24°C
Geoid undulation at AD ELEV PSN	31.2 M / 102.3 ft
MAG VAR/Annual change	1°E (2015) / 0.06° Decreasing
AD Operator, address, telephone, telefax, telex, e-mail, AFS & Website	NIL Jl. Lettu Udara Soewoto, Desa Saptorenggo, Kecamatan Pakis, Kabupaten Malang Tel : (+62341) 7938900, 793888 Telefax : (+62341) 792110 Email : bandaraabdsaleh@yahoo.com AFS : NIL Website : NIL
Type of Traffic Permitted (IFR/VFR)	IFR and VFR
Remarks	NIL

WARA AD 2.3 OPERATIONAL HOURS

Aerodrome Operator	0000 - 1000
Customs and immigration	H24
Health and sanitation	NIL
AIS Briefing Office	NIL
ATS Reporting Office (ARO)	0000 - 1000
MET Briefing Office	H - 24
ATS	0000 - 1000
Fueling	NIL
Handling	0000 - 1000
Security	H - 24
De-icing	Not Applicable
Remarks	AIS Available at Surabaya Regional office H24 Local Time: UTC +7 HR Fueling military only

WARA AD 2.4 HANDLING SERVICE AND FACILITIES

Cargo Handling facilities	ACD (Avia Citra Dirgantara)
Fuel/oil types	AVTUR
Fueling facilities/Capacity	3 Tank Car / 8000 L
De-icing facilities	Not Applicable
Hangar space for visiting aircraft	Military only
Repair facilities for visiting aircraft	Military only
Remarks	NIL

WARA AD 2.5 PASSENGER FACILITIES

Hotels	In the city
Restaurants	At AD
Transportation	Taxi and Rent Car
Medical facilities	Hospital Military
Bank and Post Office	In the city
Tourist Office	NIL
Remarks	NIL

WARA AD 2.6 RESCUE AND FIRE FIGHTING

AD category for fire fighting	Category 6
Rescue equipment	2 Units Foam Tender Type II 1 Unit Commando Car 1 Unit Ambulance
Capability for removal of disabled aircraft	Crane capacity 6tons
Remarks	1 Unit Water Tender (4000 L Water)

WARA AD 2.7 SEASONAL AVAILABILITY - CLEARING

Types of clearing equipment	Sweeping Car
Clearance priorities	RWY, TWY & Apron
Remarks	Test isi data

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

APRON SURFACE AND STRENGTH

Designation	= APRON
Surface	= Concrete
Strength	= PCN 60/R/C/X/T

TAXIWAY WIDTH, SURFACE AND STRENGTH

Designation	= TAXIWAY A1, A2 and B
Width	= 30m
Surface	= Asphalt
Strength	= PCN 30/F/C/Y/T
Designation	= TAXIWAY C
Width	= 20m
Surface	= Asphalt
Strength	= PCN 31/F/C/X/T
Designation	= TAXIWAY D
Width	= 23m
Surface	= Asphalt
Strength	= PCN 31/F/C/X/T
Designation	= TAXIWAY E
Width	= 20m
Surface	= Asphalt
Strength	= PCN 31/F/C/X/T

Designation	= TAXIWAY F
Width	= 23m
Surface	= Asphalt
Strength	= PCN 56/F/C/X/T
Designation	= TAXIWAY G
Width	= 23m
Surface	= Asphalt
Strength	= PCN 45/F/C/X/T
Designation	= TAXIWAY H
Width	= 23m
Surface	= Asphalt
Strength	= PCN 56/F/C/X/T
Designation	= TAXIWAY PARALLEL
Width	= 33m
Surface	= Asphalt
Strength	= PCN 31/F/C/X/T

Altimeter checkpoint location and elevation	1715 ft
VOR checkpoints	NIL
INS checkpoints	See Aircraft Parking/Docking Chart
Remarks	Dimension of APRON: 300 m x 110 m Slope of Apron 1% TWY A1 unavailable for Jet ACFT, For Civil ACFT In and Out TWY via TWY A2

WARA AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Taxiing guidance signs at intersection with TWY and RWY and at all holding position Guidelines at apron. Nose in guidance at aircraft stands.
RWY and TWY markings and LGT	Marking RWY : Designation, Threshold, centerline, side stripe,Touchdown zone, Aiming Point TWY : centerline,RWY Holding Positions, nose wheel guidance Light RWY : RWY Edge, Threshold, RWY End TWY : TWY Edge
Stop bars and Runway guard lights	Stop Bars where appropriate
Other runway protection measures	NIL
Remarks	Turning area available on RWY 17

WARA AD 2.10 AERODROME OBSTACLES

In Area 2					
OBST ID/ Designation	OBST Type	OBST position	ELEV/HGT	Markings/ Type, Colour	Remarks
a	b	c	d	e	f
NIL	NIL	NIL	NIL	NIL	To be surveyed
In Area 3					
OBST ID/ Designation	OBST Type	OBST position	ELEV/HGT	Markings/ Type, Colour	Remarks
a	b	c	d	e	f
NIL	NIL	NIL	NIL	NIL	To be surveyed

WARA AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

Associated MET Office	AD Meteorological Station Abdulrachman Saleh Class I
Hours of service	24 Hours
MET Office outside hours	24 Hours
Office responsible for TAF preparation	NIL
Periods of validity	12 Hours And 24 Hours
Trend forecast	NIL
Interval of issuance	24 Hours
Briefing/consultation provided	OR
Flight documentation	Chart, Tabular Form
Language(s) used	English
Charts and other information available for briefing or consultation	Stream line analysis chart, Significant weather frog noses chart, Photo Satellite, MET Report For Take Off and Landing
Supplementary equipment available for providing information.....	CMSS, Facsimile, Internet, Radio modem Computer and Weather Satellite TWR
ATS units provided with information	TWR
Additional information (limitation of service, etc.)	Tel. (+62341) 401028 Fax. (+62341) 794806

WARA 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
1	2	3	4	5
17	166.41°	2500 x 40	53/F/C/X/T Asphalt	075505.34S 1124242.02E
35	346.41°	2500 x 40	53/F/C/X/T Asphalt	075624.06S 1124301.17E

THR elevation and highest elevation of TDZ of precision APP RWY	Slope of RWY - SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)
6	7	8	9	10
1729 ft	Longitudinal : 0.0013% Transversal : 1-1.5%	60 x 40	210 x 300	2680 x 300
1712 ft	Longitudinal : 0.0013% Transversal : 1-1.5%	NIL	150 x 300	2680 x 300

RESA dimensions (M)	Location and description of arresting system	OFZ	Remarks
11	12	13	14
90 x 80	NIL	NIL	NIL
90 x 80	NIL	NIL	NIL

WARA AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
17	4000	4210	4060	4000	NIL
35	4000	4150	4000	4000	NIL

WARA AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	THR LGT colour WBAR	VASIS (MEHT) PAPI	TDZ, LGT LEN
1	2	3	4	5
17	NIL	Green	PAPI	NIL
35	NIL	Green	PAPI	NIL

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
6	7	8	9	10
NIL	60 m White	Red	NIL	NIL
NIL	60 m White	Red	NIL	NIL

WARA AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

ABN/IBN Location, Characteristic and	At TWR
hours of operation	0000 - 1000 / OR
LDI location and LGT	Landing Tee, LGT available
Anemometer location and LGT	Anemometer RWY 17 & 35
TWY edge and center line lighting	TWY Edge LGT Available
Secondary power supply/ switch-over time ..	Stand By Genset 250 kVa / 9 - 11 seconds
Remarks	NIL

WARA AD 2.16 HELICOPTER LANDING AREA

Coordinates TLOF or THR of FATO.....	HELIPAD A11 Coor : 07555001S 112424508E HELIPAD A12 Coor : 07555008S 112424600E
Goid undulation	NIL
TLOF and/or FATO Elevation (m/ft)	1715 ft
TLOF and FATO area dimensions, surface, strength, marking	HELIPAD A11 : 30 x 30 m; Asphalt; 30/F/C/Y/T; HELIPAD A12 : 30 x 30 m ; Asphalt ; 30/F/C/Y/T
True Bearing of FATO.....	165° - 345°
Declared distance available	NIL
APP and FATO Lighting.....	NIL
Remarks	NIL

WARA AD 2.17 ATS AIRSPACE

Designation and lateral limits	ABDULRACHMAN TWR : A circle with radius of 10 NM centered at "ML" NDB
Vertical limits	GND/Water up to FL200
Airspace classification	B
ATS unit call sign	Abdulrachman Tower
Language(s)	English
Transition	11 000 ft / FL130
Hours of applicability	NIL
Remarks	NIL

WARA AD 2.18 ATS COMMUNICATION FACILITIES

Service Designation		Call sign	Channel	SATVOICE number (s)
1		2	3	4
1	TWR	Abdulrachman Tower	122.5MHz	NIL

Logon		Hours of operation	Remarks
5		6	7
1	NIL	0000 - 1000	SSB 9055 kHz

WARA AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of Aids, Magnetic varition, and Type of supported operation for ILS/MLS, Basic, GNSS, SBAS, and GBAS, and for VOR/ILS/MLS also Station declination used for technical lineup of the aid		ID	Frequency(ies), Channel number(s), Service provider and Reference Path Identifier(s) (RPI)	Hours of operation
1		2	3	4
1	NDB 1°E (2021) / 0.05° Decreasing	ML	342kHz	0000 - 1000
2	VOR/DME 1°E (2021) / 0.05° Decreasing	ABD	116.1MHz/CH-108X	H24
3	ILS/LLZ 1°E (2021) / 0.05° Decreasing	IABD	109.7MHz	NIL
4	GP 1°E (2021) / 0.05° Decreasing		333.20MHz	NIL
5	IM 1°E (2021) / 0.05° Decreasing		75MHz	NIL

Geographical coordinates of the position of the transmitting antenna		Elevation of the transmitting antenna of DME, of DME/P, Elevation of GBAS reference point, and The ellipsoid height of the point. For SBAS, The ellipsoid height of the landing threshold point (LTP) or The fictitious threshold point (FTP)	Service volume radius from the GBAS reference point	Remarks
5		6	7	8
1	075600.0S 1124300.0E	NIL	NIL	Operation hours 0000 - 1000 / OR
2	075557.9S 1124247.2E	NIL	NIL	NIL
3	075500.9S 1124241.0E	NIL	NIL	NIL
4	075613.8S 1124301.7E	NIL	NIL	NIL
5	075630.1S 1124302.7E	NIL	NIL	NIL

WARA AD 2.20 LOCAL TRAFFIC REGULATIONS

2.20.4 Parking area for helicopter

- Location helipad A11 and A12 on TWY A1

2.20.2 Taxiing to and from stands

- TWY A1, A2, B, C, D and E for millitary use only.
- TWY A2 for civil ACFT

- Right downwind 17 and left downwind 35 just for military exercise.
- All ACFT Cat B,C and D make 180 deg turn via end of RWY 17/35 and not make one wheel turn

2.20.1 Airport regulation

WARA AD 2.21 NOISE ABATEMENT PROCEDURES

WARA AD 2.22 FLIGHT PROCEDURES

2.22.1 Flight Procedures

- All ACFT using RWY 35 should landing or TKOF after yellow mark 984 FT (300)
- Traffic Pattern :
  Abdulrachman Saleh AFB used “West Traffic Pattern” i.e. Right hand traffic pattern for RWY 17, left hand traffic pattern for RWY 35, pattern altitude : 800 – 1000 FT AGL for Light ACFT, 1500 FT AGL for Medium ACFT, 2000 FT AGL for Jet ACFT.
  “East Traffic Pattern” available for Light ACFT and OR

WARA AD 2.23 ADDITIONAL INFORMATION

Bird Concentration

WARA AD 2.24 CHART RELATED TO THE AERODROME

- WARA AD 2.24-11A, INSTRUMENT APPROACH CHART - ICAO VOR RWY 35 CAT A/B/C/D, Dated 01 AUG 19;
- WARA AD 2.24-2, AIRCRAFT PARKING/DOCKING CHART - ICAO, Dated 01 AUG 19;
- WARA AD 2.24-1, AERODROME CHART - ICAO, Dated 01 AUG 19;
- WARA AD 2.24-11B, INSTRUMENT APPROACH CHART - ICAO ILS RWY 35 CAT A/B/C/D, Dated 01 AUG 19;
- WARA AD 2.24-7A, STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO RWY 17, Dated 01 AUG 19;
- WARA AD 2.24-7B, STANDARD DEPARTURE CHART - INSTRUMENT (SID) - ICAO RWY 35, Dated 01 AUG 19;
- WARA AD 2.24-9A, STANDARD ARRIVAL CHART - INSTRUMENT (STAR) - ICAO RWY 17/35, Dated 01 AUG 19;