

Garuda Indonesia



# **ARMI**

(Airport and Route Manual Information)

# **BANJARMASIN**

## **WAOO / BDJ**

***DOMESTIC***

## I. Airport Data

Name	ICAO	IATA	ARP	Magnetic Variation	Airport Elevation (Feet)	Local time (UTC +/-)
Syamsudin Noor Airport	WAOO	BDJ	S 03°26.4' E114°45.2'	1° E	65	+ 8

Runways designator	length	strength	VASIS	RWY Elev
RWY 10 – 28	8202 x 148 ft (2500 x 45 m)	ASPHALT CONCRETE PCN 60 F/B/X/T	PAPI RWY 10 :3.0° RWY 28 :2.75°	RWY 10 : 54ft RWY 28 : 65ft

## II. Communication & Navigation Aids facilities

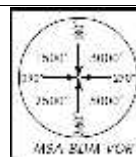
<b>APP</b> Banjarmasin Approach	126.5	<b>VOR/DME</b>	<b>BDM</b>	112.1
<b>TWR</b> Ulin Tower	118.4	<b>NDB</b>	<b>OU</b>	390
<b>FSS</b> Banjarmasin Information	8882	<b>ILS/LLZ (RW 10)</b>	<b>IBDM</b>	110.7
<b>ATIS</b>	128.05			

## III. Airport location

- 14.3 NM South East of city of BANJARMASIN.
- For Civil operation: 23.00-13.00 z.

## IV. Minimum Safe / Sector Altitude (MSA)

The highest MSA are 3000 ft (North East), 5000 ft (South East), 2500 ft (South West), 1500 ft(North West) based on “**BDM**” VOR or “**OU**” NDB.



## V. Climate / Weather Condition

- HAZY on early morning and CLOUDY on late afternoon
- During DRY SEASON, HEAVY SMOKE was observed surrounding over KALIMANTAN area due to forest burning by local farmers.
- In WET SEASON, rain fall.

**VI. Ground/ Taxi maneuvering**

- No warming up and test engines in front of Operation building.
- Caution : A steep drop of 5 ft ( 1.5 m) of the ground immediately in front of Rwy 10.

**VII. Parking**

- Nose in parking procedure by following marshaller guidance.
- New apron used for jet aircraft, stand number 01 – 08 via taxiway C or D.
- Old apron for light Aircraft.

**VIII. Ground Handling & Agents**

PT. GAPURA ANGKASA  
SITA ADDRSDJKOXH  
Company channel: 131.95MHz  
call sign: Gapura Operation,  
Phone/facs: 0511-705277 Ext : 660/ 661 / 0511-705388.  
HRS of SERVICE 0000 – 1200Z.

**IX. Servicing**

- PERTAMINA
- AES Facility CAT VII

**X. Medical Facilities**

- First aid at field.
- Hospitals in Town.

**XI. Accommodation**

- Hotels In Town

**XII. Immigration Procedures**

- On Request

### **XIII. Entry Procedures - Arrival Procedures**

<b>STANDARD ARRIVAL ROUTES ( STAR)</b>	
AYANI ONE BRAVO	Arrivals from OC (Semarang/Yogyakarta) after crossing TMA boundary MAINTAIN BDM R-235. At D30 BDM turn LEFT proceed to WBMIN.
BISOM ONE BRAVO	Arrivals from Balikpapan using W-18 after BISOM intercept BDM R-043 then proceed to WBMIN via overhead BDM.
DUNIA ONE BRAVO	Arrivals from Jakarta using W-18 over DUNIA MAINTAIN BDM R-251. At D30 BDM turn LEFT proceed to WBMIN.
GURNI ONE BRAVO	Arrivals from Ujungpandang using W-35 after GURNI intercept BDM R-102 then proceed to WBMIN via overhead BDM.
IKAPI ONE BRAVO	Arrivals from SBR using W-31 over IKAPI MAINTAIN BDM R-206. At D30 BDM turn LEFT proceed to WBMIN.
NOMAD ONE BRAVO	Arrivals from Pontianak using W-35 crossing TMA boundary MAINTAIN BDM R-302. At D30 BDM turn RIGHT proceed to WBMIN.
PALANG ONE BRAVO	Arrivals from Palangkaraya using W-31 MAINTAIN BDM R-327. At D30 BDM turn RIGHT proceed to WBMIN.

### **XIV. Departure procedures and conditions from Banjarmasin**

<b>STANDARD INSTRUMENT DEPARTURE RWY 10</b>	
AYANI ONE ALPHA	MAINTAIN runway heading until passing 1000 ft then Turn RIGHT heading $281^0$ to intercept BDM R-234 to $228^0$ bearing to OC.
BISOM ONE ALPHA	MAINTAIN runway heading until passing 1000 ft then Turn LEFT heading $340^0$ to intercept BDM R-043 to join W-18.
DUNIA ONE ALPHA	MAINTAIN runway heading until passing 1000 ft then Turn RIGHT heading $281^0$ to intercept BDM R-251 to DUNIA.
GURNI ONE ALPHA	MAINTAIN runway heading until passing 1000 ft then Intercept BDM R-102 to GURNI.
KOLOT ONE ALPHA	MAINTAIN runway heading until passing 1000 ft then Turn RIGHT heading $250^0$ to intercept BDM R-219 to KOLOT.
NOMAD ONE ALPHA	MAINTAIN runway heading until passing 1000 ft then Turn RIGHT proceed to BDM intercept BDM R-301 to NOMAD.
PALANG ONE ALPHA	MAINTAIN runway heading until passing 1000 ft then Turn RIGHT proceed to BDM intercept BDM R-325 to FK.

**STANDARD INSTRUMENT DEPARTURE RWY 28**

AYANI ONE BRAVO	MAINTAIN runway heading until passing 1000 ft, then Turn LEFT to intercept BDM R-234 to 228 <sup>^</sup> bearing to OC.
BISOM ONE BRAVO	MAINTAIN runway heading until passing 1000 ft, then Turn RIGHT to intercept BDM R-043 to join W-18.
DUNIA ONE BRAVO	MAINTAIN runway heading until passing 1000 ft, then Turn LEFT to intercept BDM R-251 to DUNIA
GURNI ONE BRAVO	MAINTAIN runway heading until passing 1000 ft, then Turn RIGHT heading 120 <sup>^</sup> to intercept BDM R-102 to GURNI.
KOLOT ONE BRAVO	MAINTAIN runway heading until passing 1000 ft, then Turn LEFT to intercept BDM R-219 to KOLOT.
NOMAD ONE BRAVO	MAINTAIN runway heading until passing 1000 ft, then Turn RIGHT to intercept BDM R-301 to NOMAD.
PALANG ONE BRAVO	MAINTAIN runway heading until passing 1000 ft, then Turn RIGHT to intercept BDM R-325 to FK.

**XV. Search and Rescue**

- In general, Search and Rescue procedures are in conformity with the Standards, Recommended Practices and Procedures contain in ICAO.
- The following Emergency / distress frequencies are provided:
  - a. VHF – 121.5 MHz.
  - b. UHF – 243.0 MHz.
  - c. HF – 500 kHz, 2.182 kHz, 8.364 kHz.

**XVI. ATC Flight plans routes and distances*****WIII – WAOO (CGK - BDJ)******WIII - WAOO R 01***

WIII ... DK12G ... GR ... DKI ... SPADA ... W18 ...ABILO ... SPIKO ... SUMBU ... DUNIA ... DUNI1B ... BD251 ... WBMIN ...WAOO. Distance 530 NM.

***Enroute Mora CKG – BDJ***

The highest MSA at CENGKARENG are 4,500 ft to South and 2,000 ft to the North based on CL, CR, GL, GR NDB. The highest MSA at Banjarmasin are 5000 ft to southeast, 3000 ft to northeast, 2500 ft to southwest, and 1500 ft to northwest based on “BDM” VOR/DME or OU NDB.

**WAOO - WIII (BDJ - CGK)**
**WAPP – WAAA R01**

WAOO ... DUNIA1A ... W18 ... DUNIA ... SUMBU ... SPIKO ... ABILO ... SPADA ... SPADA2 ... HL055 ... ESALA ... WIII. Distance 519 NM.

**Enroute Mora BDJ – CGK**

The highest MSA at Banjarmasin are 5000 ft to southeast, 3000 ft to northeast, 2500 ft to southwest, and 1500 ft to northwest based on “BDM” VOR/DME or OU NDB. The highest MSA at CENGKARENG are 4,500 ft to South and 2,000 ft to the North based on CL, CR, GL, GR NDB

**XVII. ALTERNATE**

Destination	Alternate	Loc.	Ind.	B737 classic	B737 NG	TT	NM	Operation Hours
Banjarmasin WAOO BDJ	Balikpapan	WALL	BPB	+	+	044	190	PT. Garuda
	Surabaya	WARR	SUB	+	+	206	305	PT. Garuda
	U.Pandang	WAAA	UPG	+	+	108	312	PT. Garuda
	Denpasar	WADD	DPS	+	+	175	383	PT. Garuda

**Note:** refer to **MISCELLANEOUS DOMESTIC 3.3.3 Destination Alternate List**

**+ :alternate airport adequate for indicated aircraft type**

**- : alternate airport NOT adequate for indicated aircraft type**

**Balikpapan**

***Alternate Flight plan route and distance***

WAOO – WALL (BDJ - BPN) A 01

WAOO ... BDM ... W18 ... BISOM ... BPN ... WALL. Distance 190 NM.

***Enroute Mora BDJ – BPN***

The highest MSA at Banjarmasin are 5000 ft to southeast, 3000 ft to northeast, 2500 ft to southwest, and 1500 ft to northwest based on “BDM” VOR/DME or OU NDB, the highest Grid Mora On this Route is 8.600 ft from point BDM (Banjarmasin) VOR/DME to BISOM and The highest MSA at Sepingga are 3000 ft to North, 2000 ft to Southwest, 1500 ft to Southeast based on Sepingga VOR/DME.

**Surabaya**

***Alternate Flight plan route and distance***

WAOO – WARR (BDJ – SUB ) R 01

WAOO ... BDM ... W31 ... IKAPI ... ROPI1A ... KOLOT ... ROPIA ...SBR ...

NIMAS ...WARR. Distance 305 NM.

***Enroute Mora BDJ – SUB***

The highest MSA at Banjarmasin are 5000 ft to southeast, 3000 ft to northeast, 2500 ft to southwest, and 1500 ft to northwest based on “BDM” VOR/DME or OU NDB, the MSA at SURABAYA are 12500 ft to Southwest, 5000 ft to Southeast and 2000 ft to North based on SBY VOR/DME.

### **Ujung Pandang**

#### ***Alternate Flight plan route and distance***

WAOO – WAAA (BDJ – UPG ) R 01

WAOO ... GURN1A ... BDM ... GURNI ... W35...MKS ... WAAA. Distance 312 NM.

#### ***Enroute Mora BDJ – UPG***

The highest MSA at Banjarmasin are 5000 ft to southeast, 3000 ft to northeast, 2500 ft to southwest, and 1500 ft to northwest based on “BDM” VOR/DME or OU NDB, the highest Grid Mora on the Route is 7.100 ft from point BDM (Banjar MASIN) to GURNI and the highest MSA at U. Pandang are 10.500 ft to Southwest, 3000 ft to Northwest and 7600 ft to Northeast based on MKS VOR/DME or OR NDB.

### **Denpasar**

#### ***Alternate Flight plan route and distance***

- *Open*

### **XVIII. Remarks**

- No warming up and test engines in front of Ops building.
- CAUTION : Drop of 5 ft ( 1.5m ) of the gorund immediately in front of Rwy 10.
- See Jeppesen Chart Page 11-1