



ARMI

(Airport and Route Manual Information)

SURABAYA WARR / SUB

DOMESTIC

I. Airport Data

| Name | ICAO | IATA | ARP | Magnetic Variation | Airport Elevation (Feet) | Local time (UTC +/-) |
|----------------|------|------|-------------------------|--------------------|--------------------------|----------------------|
| Juanda Airport | WARR | SUB | S07°22.9' E112°47.2' | 01° E | 11 | + 7 |

| Runways designator | length | strength | VASIS | RWY Elev |
|--------------------|-----------------------------------|---------------------------------------|--|---------------------------------------|
| RWY 10-28 | 9843 ft x 148 ft (3000m x 45m) | ASPHALT CONCRETE PCN 83 F/D/X/T | PAPI RWY 10 : 3.05° RWY 28 : 3.02° | RWY 10 : 11 ft RWY 28 : 8 ft |

II. Communication & Navigation Aids facilities

| | | | | | | |
|------------------------|--------------------|----------------------|-------|--------------------|-----------|-------|
| TWR JUANDA Tower | 118.3 118.1 | SURABAYA Director | 123.2 | VOR/DME | SBR | 113.4 |
| JUANDA Ground | 118.9 119.15 | ATIS | 128.2 | NDB | WR | 400 |
| Surabaya Control | 125.1 W 124.0 E | | | ILS/DME (RW 10) | ISBY | 110.1 |
| | | | | RNAV | RWY 10-28 | |

III. Airport location

- 20 km South West of city of Surabaya.
- Naval Air Base, Also use for Civil.
- Operating hours: 2300-1700 z, Outside Operating Hours on request 24 Hours Prior Notice.

IV. Minimum Safe / Sector Altitude (MSA)

The highest MSA are 12500 ft to Southwest, 5000 ft to Southeast and 2000 ft to North based on SBY VOR/DME or WR NDB.



V. Climate / Weather Condition

The temperature through out the year averages 22°C to 34°C and humidity averages a high 75%. The wet season is from October to the end of April. The heaviest rain is usually around January – February. The rain comes as a tropical downpour, falling most afternoons. The dry season from May to September, intermittently the rain also comes as a tropical downpour. Weather dampness minimum 47% and maximum 88%. The Wind direction on April to November coming from East, while on December coming from East – South east and on January to March from West – North west.

VI. Ground/ Taxi maneuvering

- Jet aircraft is not permitted to run – up engine on the apron.
- Request clearance to start engine prior taxi.

VI. Parking

- Parking guide by marshaller.
- Nose in park, push back required.

VII. Ground Handling & Agents

PT. GAPURA ANGKASA
SITA ADDR5 SUBGPXH
Company channel: 131.95MHz
call sign: GAPURA JUANDA,
Phone/facs: 62-31-867 0803, / 62-31 – 867 7824.
HRS of SERVICE 21.00 – 17.00Z.

VIII. Servicing

- PERTAMINA
- AES Facilities CAT.VIII
- GPU and GTC available provided by Gapura Angkasa

IX. Medical Facilities

- Indonesian Navy (ALRI) Clinic at the airport.
- Hospitals in Town.

X. Accommodation

Hotels in Town.

XI. Immigration Procedures

Customs and Immigration available.

XII. Entry Procedures - Arrival Procedures

STANDARD ARRIVAL ROUTES (STAR) RWY 10

| | |
|--------------------|--|
| BLORA ONE ALPHA | Flying on SBR R-284 proceed to SBR, at D30 SBR turn RIGHT heading 110 ⁰ to NIMAS. |
| RABOL ONE ALPHA | Flying on SBR R-119 proceed to SBR, then turn LEFT to intercept SBR R-278 to NIMAS. |
| ROBIT ONE ALPHA | Flying on SBR R-048 proceed to SBR, then turn RIGHT to intercept SBR R-278 to NIMAS. |
| ROPIA ONE ALPHA | Flying on SBR R-005 proceed to SBR, then turn RIGHT to intercept SBR R-278 to NIMAS. |

STANDARD ARRIVAL ROUTES (STAR) RWY 28

| | |
|--------------------|--|
| BLORA ONE ALPHA | Flying on SBR R-284 proceed to SBR, then turn LEFT to intercept SBR R-101 to SABIT. |
| RABOL ONE ALPHA | Flying on SBR R-119 proceed to SBR. At D30 SBR turn RIGHT heading 316 ⁰ to SABIT. |
| ROBIT ONE ALPHA | Flying on SBR R-048 proceed to SBR. At D30 SBR turn LEFT heading 197 ⁰ to SABIT. |
| ROPIA ONE ALPHA | Flying on SBR R-005 proceed to SBR, then turn LEFT to intercept SBR R-101 to SABIT. |

XIII. Departure procedures and conditions from Surabaya

| STANDARD INSTRUMENT DEPARTURE RWY 10 | |
|---|--|
| ENTAS ONE ALPHA | MAINTAIN runway heading until 1000' , then join W-45. |
| FANDO ONE ALPHA | MAINTAIN runway heading until 1000' , turn LEFT heading 059 ⁰ to join W-32. |
| LASEM THREE ALPHA | MAINTAIN runway heading until 1000' , turn LEFT heading 279 ⁰ to join W-16. |
| RAMPY ONE ALPHA | MAINTAIN runway heading until 1000' , turn LEFT heading 359 ⁰ to join W-31. |

| STANDARD INSTRUMENT DEPARTURE RWY 28 | |
|---|---|
| ENTAS TWO ALPHA | MAINTAIN runway heading until 1500' , turn RIGHT heading 109 ⁰ to join W-45. |
| FANDO TWO ALPHA | MAINTAIN runway heading until 1500' , turn RIGHT heading 089 ⁰ to join W-32. |
| LASEM FOUR ALPHA | Proceed to WR then turn RIGHT heading 319 ⁰ to join W-16. |
| RAMPY TWO ALPHA | MAINTAIN runway heading until 1500' , turn RIGHT heading 039 ⁰ to join W-31. |

XIV. 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.

XV. ATC Flight plans routes and distances

WIII – WARR (CGK-SUB) R 02

WIII ... HLM 2G ... CA ... W 45 ... BA ... NIMAS ... BLOR 1A ... WARR.
Distance 392 NM

Enroute Mora CGK – SUB

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 Grid Mora On this Route is 13.600 ft from point KASAL to ANY (ACHMAD YANI) and The MSA at SURABAYA is 12500 ft to South West, 5000 ft to South East and 2000 ft to North based on SBY VOR/DME or WR NDB.

WARR – WIII (SUB-CGK) R 01

WARR ... LASEM ... LASEM 3 A ... CUCUT... W 16 ... MADIN ... KIDET ... IMU ... IMU 2 ... ESALA ... WIII. Distance 396 NM.

Enroute Mora SUB – CGK

The highest MSA at SURABAYA are 12500 ft to South West, 5000 ft to South East and 2000 ft to North based on SBY VOR/DME or WR NDB, the highest Grid Mora is 13.600 ft from point MADIN to ESALA, and The MSA at CENGKARENG is 4,500 ft to South and 2,000 ft to the North based on CL, CR, GL, GR NDB.

XVI. ALTERNATE

| Destination | Alternate | Loc. | Ind. | B737 classic | B737 NG | TT | NM | Ground Handling |
|-------------------------|------------|------|------|--------------|---------|------|-----|-----------------|
| Surabaya WARR SUB | Denpasar | WADD | DPS | + | + | 119° | 201 | PT. Gapura |
| | Solo | WARQ | SOC | + | + | 266° | 169 | PT. Gapura |
| | Jakarta | WIII | CGK | + | + | 281° | 386 | PT. Gapura |
| | Semarang | WARS | SRG | + | + | 279° | 161 | PT. Gapura |
| | Yogyakarta | WARJ | JOG | + | + | 260° | 194 | PT. Gapura |

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

DENPASAR

Alternate Flight plan route and distance

WARR – WADD (SUB-DPS) R 01

WARR ... SBR ... ENTAS ... W 45 ... ENTAS 2 B ... BUYAN ... BENOA ...
WADD. Distance 201 NM.

Enroute Mora SUB – DPS

The highest MSA at SURABAYA are 12500 ft to South West, 5000 ft to South East and 2000 ft to North based on SBY VOR/DME or WR NDB, the highest Grid Mora On this Route is 13.300 ft from point ENTAS to BUYAN and The MSA at DENPASAR (BALI) is 9700 ft to North, 3000 ft to South East and 2000 ft to South West based on BLI VOR/DME or OR NDB.

SEMARANG

Alternate Flight plan route and distance

WARR – WARS R 01

WARR ... SBR ... LASEM ... ANY ... WARS. Distance 161 NM.

Enroute Mora SUB – SRG

The highest MSA at SURABAYA are 12500 ft to South West, 5000 ft to South East and 2000 ft to North based on SBY VOR/DME or WR NDB, the highest Grid Mora on the Route is 4.000 ft and The MSA at SEMARANG is 12.300 ft to South and Southwest, 3.300 ft to East, 1500ft to North, 3.000 ft between Radial 275 to Radial 295 and 10.5000 ft between Radial 244 to Radial 275 based ANY VOR/DME.

JAKARTA

Alternate Flight plan route and distance

WARR – WIII (SUB-CGK) R 01

WARR ... LASEM ... G 462 ... CUCUT ... MADIN ... KIDET ... IMU ... IMU 2 ...
ESALA ... WIII. Distance 389 NM.

Enroute Mora SUB - CKG

The highest MSA at SURABAYA are 12500 ft to South West, 5000 ft to South East and 2000 ft to North based on SBY VOR/DME or WR NDB, the highest Grid Mora is 13.600 ft from point MADIN to ESALA, and The MSA at CENGKARENG is 4,500 ft to South and 2,000 ft to the North based on CL, CR, GL, GR NDB.

Solo

- Open

JOGYAKARTA

Alternate Flight plan route and distance

WARR – WARJ (SUB-JOG) R 01

WARR ... SBR ... LASEM ... W 16 ... PURWO ... W 17 N ... SO ... OF ... WARJ.
Distance 194 NM

Enroute Mora SUB - JOG

The highest MSA at SURABAYA are 12500 ft to South West, 5000 ft to South East and 2000 ft to North based on SBY VOR/DME or WR NDB, Mora on the route is 13.400 ft, The MSA at YOGYAKARTA is 4,500 ft to West, the highest is 13.200 ft to North, 3900 ft to Southeast based on JOG VOR/DME or OF NDB.

XVIII. Remarks

- Operating hrs for Alt. SUB extend 17.00-21.00 UTC except Sunday.