

PARO INTERNATIONAL AIRPORT BHUTAN

AERODROME INFORMATION

1) LOCATION PARO

Location indicator *VQPR*

Coordinates in WGS-84 27 24 12"N 89 25'36"E 27 24'31.75"N 89 25'14.09"E

Elevation 7333ft (2235 M)
Elevation in WGS-84 7340.14ft (2237.27 M)

2) OPERATIONAL HOURS During Operational Hours Only.

3) PASSENGERS CHECK IN TIME

Schedule flight 2½ Hrs PRIOR ETD
Chartered flight 1½ Hrs PRIOR ETD

4) AIR TRAFFIC SERVICES

Type of Services ADVISORY SERVICE

Airspace Classification E & G

TOWER OPERATIONAL HOURS

Schedule flight
Chartered flight
Helicopters

1 Hr prior ETD/ETA
1Hr prior ETD/ETA
1/2 Hr prior ETD/ETA

5) TIME DIFFERENCE +6 Hrs UTC

6) AERODROME CATEGORY C

7) RESCUE & FIRE FIGHTING

Category 6

Amount of Water 11,800 liters

8) RUNWAY

 RWY Orientation
 15 & 33 (151 "/331")

 RWY Dimension
 1985m X 30m

 RWY strength
 PCN 20 /F/C/W/T

RWY Slope 0.81% TO THE SOUTH EAST

9) THRESHOLD COORDINATES & ELEVATION (*WGS-84)

RWY15 - *27 24'39.09"N 89 25'11.54" E 2237.58M (7341.14ft) RWY33 - *27 23'43.41"N 89 25'47.01"E 2221.85M (7289.52ft) 10) TEMPORARY DECLARED DISTANCE (Valid until July 2008)

RWY15 - TORA -1985M, TODA-1985M, ASDA-1985M, LDA 1985M RWY33 - TORA -1985M, TODA-1985M, ASDA-1985M, LDA 1985M

11) FREQUENCY VHF (MAIN)

TWR TWR 120.3Mhz
Call sign PARO TOWER

Range Coverage 150 NM towards Southeast i.e. via BOGOP (R598) 35 NM toward s Southwest i.e. via SUBSU (G348)

VHF (EMERGENCY)

TWR TWR 121.5Mhz
Call sign PARO TOWER

Range Coverage within 10 – 12 NM of radius only

HF

Frequency *8921Khz & 13342Khz*,

Call Sign *PARO RADIO*

12) NAVIGATION AIDS:-VOR/DME

Frequency 108.4Mhz "PRO"
Radial & Distance 140"/7NM from ARP

Coordinates- 27 18'30"N 89 30'30"E 350M

NDB

Frequency & Location 410 Khz "PR" (500M SW of Paro Aerodrome)

Coordinates (*WGS-84) 27 23'58"N 89 25'29"E

13) SECTOR ALTITUDE:- 16,000ft (090 °- 250 °) 17,500ft (255 °- 150 °)

26,100ft (315 °- 090 °)

14) ENTRY & EXIT ROUTE:-

a) R598 BOGOP Radial 161 °/37 NM 26 44'N 89 44'E

b) G348 SUBSU R240 °/38 NM 26 58'N 88 52'E

(Distance from Paro VOR/DME)

15) HOLDING POINTS:-

Geographical Location TAKTHI

Coordinates 27 03'N 89 29'E

Distance 15 DME from PARO AD

8.5 DME from VOR/DME

16) COMPULSORY REPORTING POINTS

BOGOP (Southeast sector) SUBSU (Southwest sector)

TAKTI

CONFLUENCE

17) TRANSFER POINT:-

a) R598 BOGOP Radial 161°/37 NM 26°44'N 89°44'E

b) G348 SUBSU R240 °/38 NM 26 58'N 88 52'E

(Distance from Paro VOR/DME)

18) SIGNIFICANT REFERENCE POINT

1. TOWARDS SOUTH OF AIRFIELD

V-VICTOR VOR RIDGES ESUNA VALLEY

2. TOWARDS NORTH OF AIRFIELD

Mr. SMITH'S RIDGES
TURNING AREA OF RWY15
SANGCHEOKOR MONASTRY

19) ADDRESSES & Tel No.

1. TOWER 9758272859 – for Tower observation & Flight Information

2. ARO/AIS Office 9758272760 - for Flight Plan, NOTAM & Aerodrome

condition

Email:-aisection@druknet.bt

3. MET Office *975271404/271233 for Weather update*

4. AFTN address:- *VQPRZTZX/VQPRYFYT – for Flight plan, NOTAM and*

departure information

20) HANDLING SERVICE & FACILITIES

*FUEL/OIL:- Aviation Turbine Fuel only – Jet A1

*(Service available prior intimation only)

*HANDLING FACILITIES:- Ground Operation Manager,

Druk Air Corporation Ltd.

Paro Airport. Tel # 975 8272722 Fax#9758271259 Email Add.

21) REQUIREMENTS:-

(1) PRIOR OPERATING INTO PARO AIRPORT THE PILOT IN- COMMAND SHOULD BE BRIEFED AND VISIT THE AERODROME AS AN OBSERVER.

OR SHOULD

UNDERTAKE INSTRUCTION IN A SIMULATOR APPROVED BY THE AUTHORITY FOR THAT PURPOSE.

OR

REQUEST GUIDE PILOT(NAVIGATOR) FROM DRUK AIR CORPORATION LTD. ON FOLLOWING ADDRESS:-

Capt Karma Dupchu, FOM Druk Air Corporation ltd. Tele No. 975 8271415/271218 Fax No.9758272040 Email Add:- drukops@druknet.bt

(2) ALL NON SCHEDULED CIVIL/MILITARY AIRCRAFT ARE TO OBTAIN RELEVANT CLEARANCE PRIOR OPERATING INTO BHUTAN AIRSPACE FROM THE DIRECTOR OF DEPARTMENT OF CIVIL AVIATION.

TO OBTAIN CLEARANCES ON BEHALF OF PRIVATE AIRLINES AND FOR ADDITIONAL LOGISTICS CONTACT:-

Mr. Dorji Wangdi Bhutan Air Service Paro Airport. Tele # 975 8272063 (o) Fax # 975 8272053 Mobile:- 975 17617383

Email: bhutanair@yahoo.com/bhutanair@hotmail.com

Note:- Bhutan air services (BAS) is the authorized agent for coordinating and assisting in clearance of private aircraft/helicopter that fly to Bhutan. All fees and charges at Paro Aerodrome will be collected by the Bhutan Air Services.

- (3) IN ORDER TO AVOID UNNECESSARY DELAY WHILE DEPARTING FROM PARO, RELEVANT CLEARANCES (YANKEE ALPHA NUMBER) FROM INDIAN DGCA AND OTHER CLEARANCES FROM THE RESPECTIVE AUTHORITY MUST BE OBTAINED TO OVER FLY/TRANSITING THROUGH THE RESPECTIVE AIRSPACES.
- (4) SPECIFIC DATE & TIME OF ARRIVAL/ DEPARTURE OR OVER FLYING/TRANSITING SHOULD BE CLEARLY MENTIONED WHILE OBTAINING SUCH CLEARANCES.
- (5) LAST MINUTE CHANGE IN FLIGHT PLAN SHALL BE SUBJECT TO **DELAY THE FLIGHT TO OBTAIN NEW ADC/FIC**, THEREFORE ALL FLIGHTS ARE TO ADHERE WITH PLANNED FLIGHT PLAN OR INFORM TO ARO REGARDING THE CHANGES IN FLIGHT PLAN AT LEAST ONE DAY PRIOR. **DCA BHUTAN SHALL NOT BE RESPONSIBLE FOR THE DELAY OF FLIGHT.**
- (6) FLIGHT WISHING TO DEPART EARLY IN THE MORNING FROM PARO (BTN 0000Z–0400Z), PRIOR FLIGHT PLAN SHOULD BE FILED AT LEAST ONE DAY PRIOR DEPARTURE FROM PARO, IN ORDER TO AVOID DELAY IN OBTAINING ADC/FIC FROM INDIA FIR/FIC.

(7) FLIGHT PLAN CAN BE FILED DURING OPERATIONAL HOURS OR DURING OFFICE HOURS (09:00 – 16:00 Hrs BST) AT THE FOLLOWING ADDRESS.

ARO, AIS OFFICE, CONTROL TOWER, 1st FLOOR, PARO AIRPORT. Tel No. 975-8-272760/272895 Email:- aisection@druknet.bt

22) RESTRICTION:-

- (1) ONLY DAY OPERATIONS IN VMC (DAY VFR FLTS ONLY)
- (2) NO NIGHT LANDING/BAD WEATHER FACILITIES
- (3) ALTITUDES TO BE MAINTAINED AS PER ICAO RULES OF THE AIR.
- (4) AVOID FLYING OVER YELLOW ROOFTOP i.e., (Dzongs, Monastery, Temples)
- (5) FLIGHT SHALL BE PERMITTED TO FLY ONLY **AFTER/BEFORE 15 MINUTES OF SUNRISE /SUNSET.**

23) PROCEDURES

- (1) WITH THE HIGH TERRAIN AND RAPID PHENOMENON CHANGE OF WEATHER IN AND AROUND THE PARO AERODROME, ALL FLIGHTS ARE OPERATED AS **DAY VFR AERODROME**, THEREFORE ANY AIRCRAFT OPERATING IN BHUTAN TERRITORY ARE REQUIRED TO OBTAIN WEATHER INFORMATION FROM PARO AERODROME AT LEAST ONE HOUR PRIOR TO DEPARTURE.
- (2) PARO WEATHER WILL AVAILABLE ON HF RADIO ON FREQ. **8921KHZ** AND **13342KHZ**, CALL SIGN PARO RADIO OR CAN BE REQUESTED ON AFTN i.e. On **VOPRZTZX, VOPRYFYT**
- (3) FLIGHT PLAN SHOULD BE FILED ON AFTN/FAX PRIOR ONE HOUR DEPARTURE FOLLOWED BY STATUS OF FLIGHT, IN THE EVENT OF ANY DELAY OR CANCELLATION OF FLIGHT LIKELY TO OCCUR.
- (4) **AIRBORNE CALL IS MUST** AS SOON AS THE AIRCRAFT DEPARTS FROM THE DEPARTURE AERODROME WITH THE **ATD AND ETA OVER PARO. AIRBORNE TIME & ETA SHOULD BE INFORMED TO PARO RADIO ON HF.**
- (5) ENTRY/EXIT FROM/TO BHUTAN TO INDIAN AIRSPACE IS ON POSITIVE R/T CONTACT WITH HASIMARA (IAF 130.4Mhz) BAGDOGRA (IAF 131.2Mh) AND GUWAHATI (Civil ACC 120.5 Mhz or Civil APP 123.9Mhz) AS APPLICABLE.
- (6) ENTRY/EXIT INTO CIRCUIT AREA IS VIA **CONFLUENCE** (Confluence Of Rivers Paro-Thimphu) AT SAFETY ALTITUDE. DESCEND BELOW SAFETY ALTITUDE

ONLY IN VMC. ALL ARRIVING AIRCRAFT TO CONTACT PARO TOWER ATLEAST 38 NM BEFORE REACHING CONFLUENCE.

- (7) TA-18,000, TL WILL BE PASSED BY ATC
 - (a) CIRCUIT AREA/PATTERN IS GENERALLY TO THE WEST OF AIRFIELD. AIRCRAFT ON CIRCUIT MAY NOT BE VISIBLE TO ATC, DUE TO HILLS, DESCENDING CIRCUIT.
 - (b) TO THE NORTH/NORTH EAST OF THE AIRFIELD THE DUPSHARE VALLEY IS UNSAFE AND NOT ALLOWED FOR CIRCUIT.
- (8) FINAL APPROACH TRACK FOR BOTH RUNWAY IS CURVED DUE TO HILLY TERRAIN, "EXERCISE CAUTION". APPROACH ON FINAL IS ABOVE 3°GP. NO VISUAL GUIDANCE LIKE VASI. PAPI. ILS, RUNWAY LIGHTS ETC ON FINAL.
- (9) SURFACE WINDS PASSED ON R/T IS THE TOWER OBSERVATION AND MAY NOT BE INDICATIVE OF ACTUAL WIND CONDITIONS AT DIFFERENT POSITIONS ON RUNWAY. SURFACE WINDS INCREASE IN INTENSITY USUALLY IN THE AFTERNOON HOURS.
- (10) SEVERE TURBULENCE MAY EXPERIENCE WHEN ENTERING THE VALLEY.
- (11) STRONG ANABATIC WIND IN THE AFTERNOON (FEB MAY) MAY GIVE RAISE TO MODERATE TO SEVERE TURBULENCE; IT IS RECOMMENDED TO RESTRICT FLIGHT MOVEMENT TO THE MORNING.
- (12) ONLY ONE AIRCRAFT AT A TIME IS PERMITTED TO DESCEND IN A VALLEY.
- (13) HOLDING POINT IS OVER TAKTI 180°/15 NM FROM VOR/DME AT ALTITUDE CLEARED BY PARO ATC. MINIMUM 16 000ft.
- (14) HELICOPTERS OPERATING AS A DOMESTIC FLIGHT/MOUNTAIN FLIGHT WITHIN BHUTAN TERRITORY CAN CONTACT PARO TOWER ON FIXED LINE/MOBILE (Numbers provided above on item no. 19). WHILE ON GROUND AT HELIPAD FOR PARO WEATHER AND THE DEPARTURE INFORMATION (ETA/ETD). THIS SHALL BE APPLIED ONLY TO THOSE HELICOPTER NOT EQUIPPED WITH HF RADIO FACILITIES ON BOARD

24) DEPARTURE INSTRUCTION

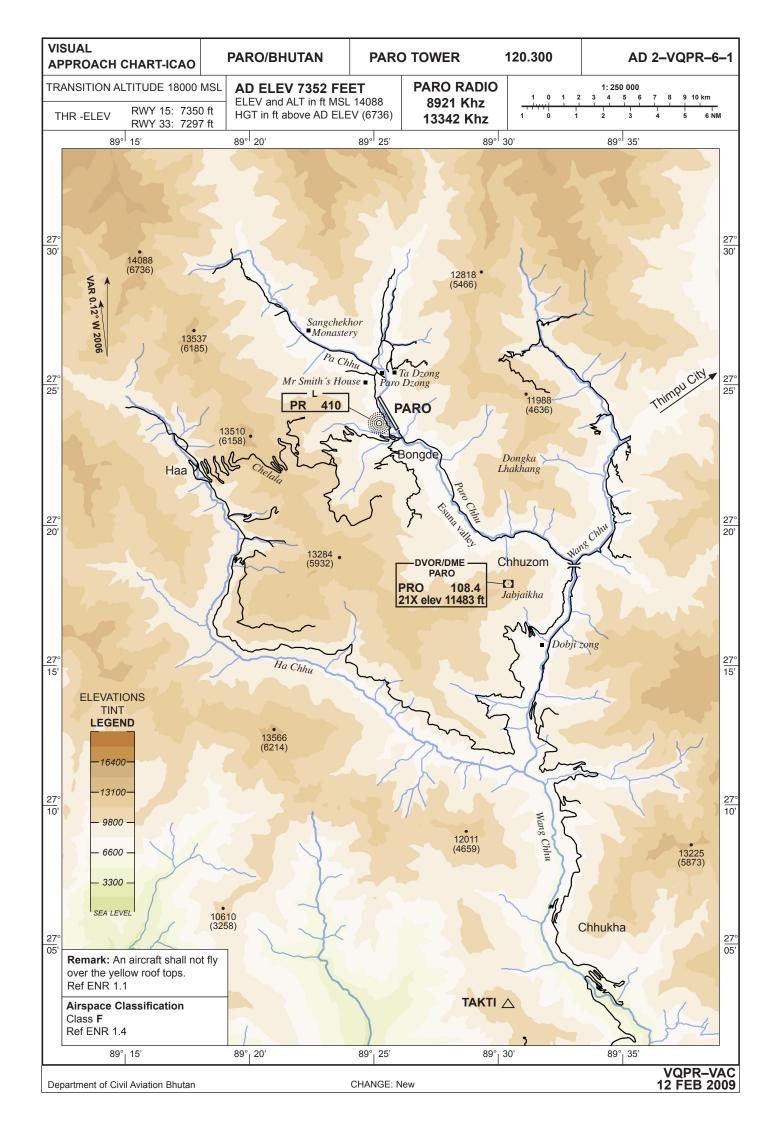
1. **NO SIDs** (Standard instrument Departure) IS ESTABLISHED FOR PARO AIRPORT. THEREFORE, ALL AIRCRAFT SHALL STRICTLY FOLLOW VISUAL FLIGHT RULES (VFR) AND IN VISUAL METEOROLOGICAL CONDITIONS (VMC).

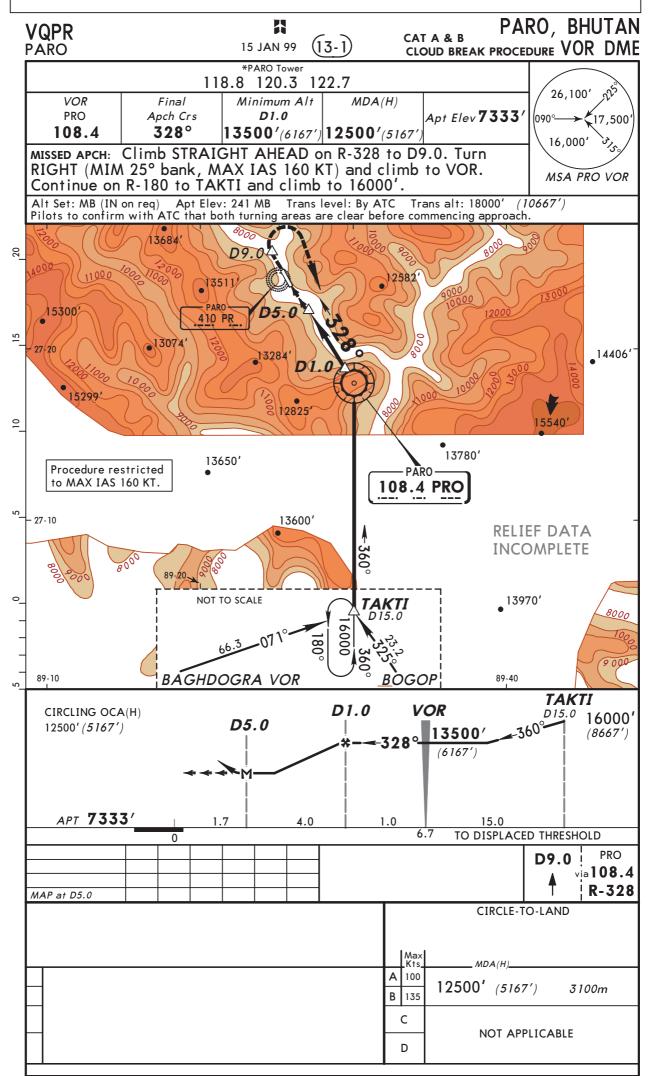
Paro Aerodrome Information.

- 2. AFTER DEPARTURE CLIMB INITIALLY 18000FT ON QNH MAINTAINING VISUAL TO TERRAIN/OBSTACLE AND REPORT OVER CONFLUANCE/VOR"PRO" WITH THE ESTIMATES TIME OVER DESIGNATED COMPULSORY REPORTING POINTS AND DESTINATION.
- 3. AS SOON AS REACHING ALTITUDE 18000 FT AND/OR BEFORE CROSSING BHUTAN AIRSPACE, AIRCRAFT SHALL CONTACT THE FOLLOWING ADJACENT ACC/APP FOR HIGHER LEVEL AND POSITION REPORT.
 - a) AIRCRAFT DEPARTING FOR SOUTHEAST SECTOR i.e. via BOGOP(R598) AIRCRAFT SHALL CONTACT HASHIMARA ON FREQ 130.4Mhz & ALSO WITH GUWHATI ON FREQ 120.5 Mhz (approach) 123.9 Mhz (area)
 - b) AIRCRAFT DEPARTING FOR SOUTHWEST SECTOR i.e. via SUBSU(G348), AIRCRAFT SHALL CONTACT BAGHDORA ON FREQ 131.2Mhz & ALSO WITH GUWHATI ON FREQ 120.5 Mhz (approach) 123.9 Mhz (area)
- 4. AFTER ESTABLISHING CONTACT WITH THE ADJACENT ACC, AIRCRAFT SHALL REPORT BACK TO PARO TOWER WITH THEIR ASSIGNED LEVEL AND POSITION UNTIL LEAVING BHUTAN AIRSPACE/CROSSING TRANSFER POINT.
- 5. AIRCRAFT SHALL ALSO REPORT BACK TO PARO TOWER AFTER VACATING BHUTAN AIR SPACE i.e. OVER **BOGOP/SUBSU**.

Wish you a very SAFE & Pleasant Flight.

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