## AD 2. AERODROMES

### VIBR AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VIBR - KULLU MANALI / DOMESTIC

### VIBR AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

| | | | |
|---|---|---|---|
| 1 | Aerodrome reference point coordinates and its site | 315237N 0770919E<br>348 DEG/550M from THR RWY 34 | |
| 2 | Direction and distance of aerodrome reference point from the centre of the city or town which the aerodrome serves | 180 DEG, 10KM from Kullu. | |
| 3 | Aerodrome elevation and reference temperature | 3573 FT / 24.0 DEG C | |
| 4 | Magnetic variation, date of information and annual change | 0.75 DEG E (1985) /0.00 | |
| 5 | Name of aerodrome operator, address, telephone, telefax, e-mail address, AFS address, website (if available) | Airports Authority of India,<br>Kullu Manali airport,<br>Bhuntar, Kullu - 175125<br>Himachal Pradesh | |
| | | Telephone: | +91-1902-265052<br>+91-1902-266325<br>+91-9418062064<br>+91-1902-265094<br>+91-1902-265418 |
| | | Fax: | +91-1902-265062<br>+91-1902-265603<br>+91-1902-265037 |
| | | AFS: | VIBRYDYX |
| | | Email: | apdbhuntar@aai.aero |
| 6 | Types of traffic permitted (IFR/VFR) | VFR | |
| 7 | Remarks | NIL | |

## VIBR AD 2.3 OPERATIONAL HOURS

| | | | |
|---|---|---|---|
| 1. | Aerodrome Operator | MON-FRI: 0400-1230 UTC ( 0930-1800 IST )<br>SAT,SUN + HOL: NIL | |
| 2. | Custom and immigration | NIL | |
| 3. | Health and sanitation | NIL | |
| 4. | AIS briefing office | As ATS | |
| 5. | ATS reporting office (ARO) | As ATS | |
| 6. | MET Briefing office | As ATS | |
| 7. | Air Traffic Service | Consult current NOTAM for current ATS Hrs. | |
| 8. | Fuelling | As ATS | |
| 9. | Handling | As ATS | |
| 10. | Security | As ATS | |
| 11. | De-icing | NIL | |
| 12. | Remarks | (1) Outside of ATS hours, services are available O/R with 24 HR PN to AD.<br>(2) Every Saturday Aviation Fuel STN will remain CLSD. In case of emergency, fuel will be AVBL with at least one HR prior notice.<br>Contact Nos. at Bhuntar Aviation FUEL STN:<br>+91-1902-265195(O)<br>+91-1902-260357(R)<br>+91-9816089156 (Mobile) | |
| | | ATS approved hourly runway traffic handling capacity | Maximum number of arrival and departure- 04 spacing btn two successive arrival shall be fifteen minutes<br>Maximum number of arrival only – 02<br>Maximum number of departure only -02 |

## VIBR AD 2.4 HANDLING SERVICES AND FACILITIES

| | | |
|---|---|---|
| 1. | Cargo-handling facilities | NIL |
| 2. | Fuel/Oil types | ATF |
| 3. | Fuelling facilities/capacity | 2 Underground tanks of capacity 20 KL each, Bowser facility available. |
| 4. | De-icing facilities | NIL |
| 5. | Hangar space for visiting aircraft | NIL |
| 6. | Repair facilities for visiting aircraft | NIL |
| 7. | Remarks | NIL |

## VIBR AD 2.5 PASSENGER FACILITIES

| | | |
|---|---|---|
| 1. | Hotel(s) at or in the vicinity of aerodromes | Near the AD and in the city |
| 2. | Restaurant(s) at or in the vicinity of aerodromes | Near the AD and in the city |
| 3. | Transportation possibilities | Buses and taxies from AD to city. |
| 4. | Medical Facilities | First aid at AD. Hospitals in city. |
| 5. | Bank and post office at or in the vicinity of aerodromes | Banks: Near the AD.<br>Post office: Near the AD. |
| 6. | Tourist office | Office in the city.<br>Telephone:<br>Kullu: +91-1902-222349,<br>Manali: +91-1902-252116 |
| 7. | Remarks | NIL |

## VIBR AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

| | | |
|---|---|---|
| 1. | Aerodrome category for fire fighting | Within ATS HR: CAT-5 (0130 - 0730 Daily) |
| 2. | Rescue equipment | AVBL. as per category. |
| 3. | Capability for removal of disabled aircraft | NIL |
| 4. | Remarks | NIL |

## VIBR AD 2.7 SEASONAL AVAILABILITY CLEARING

| | | |
|---|---|---|
| 1. | Types of clearing equipment | NIL |
| 2. | Clearance priorities | NIL |
| 3. | Remarks | NIL |

## VIBR AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

| | | |
|---|---|---|
| 1 | Designation, surface and strength of aprons | Designator: APRON<br>Surface: Asphalt<br>Strength: |
| 2 | Designation, width, surface and strength of taxiways | Designator: A<br>Width: 15 M<br>Surface:<br>Strength: PCN 18/R/C/Y/U<br><br>Designator: B<br>Width: 15 M<br>Surface:<br>Strength: PCN 18/R/C/Y/U<br><br>Designator: C<br>Width: 15 M<br>Surface:<br>Strength: PCN 18/R/C/Y/U |
| 3 | Location and elevation of altimeter checkpoints | Location: Stand Nos. 1 and 2 are designated as altimeter check point.<br>Elevation: 3558 FT |
| 4 | Location of VOR checkpoints | NIL |
| 5 | Position of INS checkpoints | NIL |
| 6 | Remarks | 1. Location of Taxiways:<br>i. TWY A: 584.6M from beginning of RWY 34<br>ii. TWY B: 659.6M from beginning of RWY 34<br>iii. TWY C: 734.4M from beginning of RWY 34 |

## VIBR 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 | Taxiway guidance provided on R/T. |
| 2. | RWY and TWY markings and LGT | RWY Markings: Designation, THR Centreline, Edge<br>RWY Lights: Nil<br><br>TWY Markings: Central Line and Edge<br>TWY Lights: Nil |
| 3. | Stop bars | NIL |
| 4. | Remarks | NIL |

## VIBR AD 2.10 AERODROME OBSTACLES

| In Approach/Take-off/Circling Area and at AD | | | | | |
|---|---|---|---|---|---|
| **1** | **2** | **3** | **4** | **5** | **6** |
| RWY/Area affected | Obstacle type | Coordinates | Elevation | Marking/LGT | Remarks |
| 34/TKOF<br>16/APCH | TREE | 315259.2N<br>0770908.6E | 3627 FT | NIL | Tree |
| 34/TKOF<br>16/APCH | POLE | 315259.1N<br>0770908.1E | 3586 FT | NIL | Tele. Pole |
| 34/TKOF<br>16/APCH | POLE | 315259.5N<br>0770908.4E | 3620 FT | NIL | Elect. Pole |
| 34/TKOF<br>16/APCH | POLE | 315259.0N<br>0770907.6E | 3603 FT | NIL | Elect. Pole |
| 34/TKOF<br>16/APCH | BRIDGE | 315259.4N<br>0770907.1E | 3504 FT | NIL | Bridge |
| 34/TKOF<br>16/APCH | BUILDING | 315259.8N<br>0770906.8E | 3602 FT | NIL | Building |
| 34/TKOF<br>16/APCH | BUILDING | 315300.9N<br>0770906.2E | 3619 FT | NIL | Building |
| 34/TKOF<br>16/APCH | BUILDING | 315301.0N<br>0770905.3E | 3603 FT | NIL | Building |
| 34/APCH<br>16/TKOF | TREE | 315301.5N<br>0770904.7E | 3610 FT | NIL | Tree |
| 34/APCH<br>16/TKOF | BRIDGE | 315315.3N<br>0770852.9E | 3635 FT | NIL | Steel Bridge |
| 34/APCH<br>16/TKOF | TREE | 315208.5N<br>0770932.3E | 3615 FT | NIL | GP of Trees |
| 34/APCH<br>16/TKOF | TREE | 315201.8N<br>0770931.4E | 3581 FT | NIL | GP of Trees |
| 34/APCH<br>16/TKOF | TREE | 315212.0N<br>0770922.9E | 3587 FT | NIL | Tree |
| 34/APCH<br>16/TKOF | POLE | 315159.1N<br>0770922.4E | 3632 FT | NIL | Elect. Pole |
| 34/APCH<br>16/TKOF | TREE | 315151.9N<br>0770927.9E | 3638 FT | NIL | Tree |
| 34/TKOF<br>16/APCH | OTHER | 315254.7N<br>0770907.5E | 3578 FT | NIL | B.Wall |
| 34/TKOF<br>16/APCH | OTHER | 315254.7N<br>0770906.7E | 3585 FT | NIL | Met Obsr. Box |
| 34/TKOF<br>16/APCH | BUILDING | 315254.8N<br>0770905.8E | 3612 FT | NIL | Building |
| 34/TKOF<br>16/APCH | OTHER | 315254.8N<br>0770905.2E | 3592 FT | NIL | Wall Fence |

| In Approach/Take-off/Circling Area and at AD | | | | | |
|---|---|---|---|---|---|
| **1** | **2** | **3** | **4** | **5** | **6** |
| RWY/Area affected | Obstacle type | Coordinates | Elevation | Marking/LGT | Remarks |
| 34/TKOF<br>16/APCH | TREE | 315255.0N<br>0770903.9E | 3636 FT | NIL | Tree |
| 34/TKOF<br>16/APCH | POLE | 315255.9N<br>0770904.9E | 3610 FT | NIL | Elect.Pole |
| 34/TKOF<br>16/APCH | BRIDGE | 315256.2N<br>0770904.9E | 3604 FT | NIL | Bridge |

## VIBR AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

| | | |
|---|---|---|
| 1. | Name of the associated meteorological office | Bhuntar (Kullu) |
| 2. | Hours of service and, where applicable, the designation of the responsible meteorological office outside these hours | HJ |
| 3. | Office responsible for preparation of TAFs and periods of validity and interval of issuance of the forecasts | Delhi<br>9HR<br>As and when requested |
| 4. | Availability of the trend forecast for the aerodrome and interval of issuance | NIL |
| 5. | Information on how briefing and/or consultation is provided | NIL |
| 6. | Types of flight documentation supplied and language(s) used in flight documentation | Tabular form, English |
| 7. | Charts and other information displayed or available for briefing or consultation | NIL |
| 8. | Supplementary equipment available for providing information on meteorological conditions, e.g. weather radar and receiver for satellite images; | Barometer, Thermometer, Drain Gauge, Wind panel instruments digital wind panel available |
| 9. | The air traffic services unit(s) provided with meteorological information | Kullu Manali ATC and ACS |
| 10. | Additional information, e.g. concerning any limitation of service. | Documents available on request. |

## VIBR AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

| **Designations** | **TRUE Bearings** | **Dimensions of RWY (M)** | **Strength of pavement (PCN) and associated data) and surface of runway and associated stopways** | **Geographical coordinates for threshold and runway end** |
|---|---|---|---|---|
| **1** | **2** | **3** | **4** | **5** |
| 16 | 159.00 DEG | 1052 x 30 M | 15/F/C/Y/T<br>Asphalt | THR:<br>315251.50N<br>0770909.10E |
| 34 | 339.00 DEG | 1052 x 30 M | 15/F/C/Y/T<br>Asphalt | THR:<br>315219.40N<br>0770923.70E |

| THR elevation and highest elevation of TDZ of precision APP RWY | Slope of runway and associated stopway | Dimensions of stopway (M) | Dimensions of clearway (M) | Dimensions of strips (M) |
|---|---|---|---|---|
| 6 | 7 | 8 | 9 | 10 |
| THR: 3572.8FT TDZ: | | | | 1088 x 80 M |
| THR: 3545.6FT TDZ: | | | | 1088 x 80 M |

| Dimensions of runway end safety areas | Location and description of arresting system (if any) | Existence of an obstacle-free zone | Remarks. |
|---|---|---|---|
| 11 | 12 | 13 | 14 |
| | | | NIL |
| | | | NIL |

**VIBR AD 2.13 DECLARED DISTANCES**

| RWY Designation | TORA (M) | TODA (M) | ASDA (M) | LDA (M) | Remarks (including runway entry or start point where alternative reduced declared distances have been declared) Remarks |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 16 | 1052 | 1052 | 1052 | NIL | LDA not usable |
| 34 | NIL | NIL | NIL | 1052 | TORA, TODA, ASDA not usable |

**VIBR AD 2.14 APPROACH AND RUNWAY LIGHTING**

| Runway Designator | Type, length and intensity of approach lighting system | Runway threshold lights, colour and wing bars | Type of visual slope indicator system | Length of runway touchdown zone lights |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
| 16 | | | NIL | |
| 34 | | | PAPI LEFT/2.99 DEG | |

| Length, spacing, colour and intensity of runway centre line lights | Length, spacing, colour and intensity of runway edge lights | Colour of runway end lights and wing bars | Length and colour of stopway lights | Remarks |
|---|---|---|---|---|
| 6 | 7 | 8 | 9 | 10 |
| | | | | NIL |
| | | | | PAPI left side at 149.48M from THR RWY 34. No. of units 4. Distance from RWY Edge 15M,24M, 33M,42M at right angle to the RWY. |

**VIBR AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY**

| | | | |
|---|---|---|---|
| 1 | Location, characteristics and hours of operation of aerodrome beacon/identification beacon (if any) | ABN | At Tower Building, FLG W&G EV2SEC<br>As ATS HR |
| | | IBN | NIL |
| 2 | Location and lighting (if any) of anemometer/ landing direction indicator; | LDI | NIL |
| | | Anemometer | NIL |
| 3 | Taxiway edge and taxiway centre line lights; | Edge | |
| | | Centre Line | |
| 4 | Secondary power supply including switch-over time; | Secondary Power supply to all lighting at AD.Switch-over time 15 SEC. | |
| 5 | Remarks | NIL | |

**VIBR AD 2.16 HELICOPTER LANDING AREA**

| | | |
|---|---|---|
| 1. | Geographical coordinates of the geometric centre of touchdown and liftoff (TLOF) or of each threshold of final approach and take-off (FATO) area | -- |
| 2. | TLOF and/or FATO area elevation: | -- |
| 3. | TLOF and FATO area dimensions to the nearest metre or foot, surface type, bearing strength and marking; | -- |
| 4. | True bearings of FATO; | -- |
| 5. | Declared distances available | -- |
| 6. | Approach and FATO lighting; | -- |
| 7. | Remarks | -- |

**VIBR AD 2.17 ATS AIRSPACE**

| | | |
|---|---|---|
| 1. | Airspace designation, geographical coordinates and lateral limits | Not established |
| 2. | Vertical limits | Not established |
| 3. | Airspace classification | G |
| 4. | Call sign and language(s) of the air traffic services unit providing service; | Kullu Manali Tower, English |
| 5. | Transition altitude | 23000 FT |
| 6. | Hours of applicability | |
| 7. | Remarks | NIL |

## VIBR AD 2.18 ATS COMMUNICATION FACILITIES

| Service Designation | Call sign | Channel(s) | SATVOICE Number(s), if available |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| TWR | Kullu Manali Tower | 122.300 MHZ | |
| ATIS | Kullu Manali Information | 126.800 MHZ | |

| Logon address, as appropriate | Hours of operation | Remarks |
|---|---|---|
| 5 | 6 | 7 |
| | As ATS | NIL |
| | As ATS | NIL |

## VIBR AD 2.19 RADIO NAVIGATION AND LANDING AIDS

| Type of aids, magnetic and type of supported operation for ILS/MLS, basic GNSS, SBAS and GBAS, and for VOR/ILS/MLS station used for technical lineup of the aid | Identification | Frequency(ies), Channel number(s), Service provider, and reference path identifier(s) (RPI), as appropriate | Hours of operation, as appropriate; |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| NDB | BNR | 334 kHz | As ATS |

| Geographical coordinates of the position of the transmitting antenna | Elevation of transmitting antenna of DME/ elevation of GBAS reference point | Service volume radius from the GBAS reference point | Remarks |
|---|---|---|---|
| 5 | 6 | 7 | 8 |
| 315254.0N<br>0770905.3E | | | |

## VIBR AD 2.20 LOCAL AERODROME REGULATIONS

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## VIBR AD 2.21 NOISE ABATEMENT PROCEDURES

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## VIBR AD 2.22 FLIGHT PROCEDURES

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## VIBR AD 2.23 ADDITIONAL INFORMATION

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## VIBR AD 2.24 CHARTS RELATED TO AN AERODROME

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