

**AD 2. AERODROMES****VOBG 2.1 AERODROME LOCATION INDICATOR AND NAME****VOBG- BANGALORE / INTERNATIONAL****VOBG AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

1.	ARP coordinates and site at AD	125707.8 N 0773952.5 E 322°30' at 762m from Control TWR
2.	Direction and distance from (city)	6.3 Nm (11.6 Km) south east Of Bangalore City
3.	Elevation/Reference temperature	887.5m (2912 Ft) / 33.9°C (April)
4.	MAG VAR/Annual change	2.15°W/1'E (1995)
5.	AD Administration, address, telephone, telefax, telex, AFS	Hindustan Aeronautics Limited (HAL) Deputy General Manager (AO) HAL, Airport, Bangalore - 560037
		Tel 080-25225083
		FAX 080-25233032, 25222076
		AFS VOBGYDYX
		E_mail <a href="mailto:halatc@vsnl.net">halatc@vsnl.net</a>
6.	Types of traffic permitted (IFR/VFR)	IFR/VFR
7.	Remarks	Nil

**VOBG AD 2.3 OPERATIONAL HOURS**

1.	AD Administration	Mon-Sat 0130-0930 UTC (0700-1500 IST)
2.	Custom and immigration	H-24
3.	Health and sanitation	Available on prior notice.
4.	AIS Briefing office	H-24
5.	ATS Reporting Office(ARO)	H-24
6.	MET Briefing office	H-24
7.	ATS	H-24
8.	Fuelling	H-24
9.	Handling	Available on prior notice to HAL-Air India Joint Working Group.
10.	Security	H-24
11.	De-icing	Nil
12.	Remarks	<ol style="list-style-type: none"> <li>1. Prior permission required for Non-Sked Flights (Including Military) due parking space limitations.</li> <li>2. Non-Adherence to allotted slot timings may result in delay in parking of sked/non-sked flts.</li> <li>3. Arr/Dep may be delayed, as test-flying operation is accorded priority.</li> </ol>



**VOBG AD 2.7 SEASONAL AVAILABILITY - CLEARING**

Nil

**VOBG AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA**

1.	Apron surface and strength		Surface	Strength	No. of parking Stands	
		Apron 1	Concrete	55/R/B/W/T	10 for SKED Passenger ACFT	
		Apron 2	Concrete	---	3 stands for Cargo/VIP ACFT	
		Apron 3	Concrete	---	2 Bays for AN-32 or similar ACFT	
		Apron4	Concrete	---	3 Bays for AN-32 or similar ACFT	
		Apron5	Loc. Opposite to APN 1 south of main TWY			
		Apron6	Loc. West of W1 TWY			
2.	Taxiway width, surface and strength	TWY	Surface	Strength	Width	
		M	Bitumen	50/F/A/W/T	23M	
		E1	-DO-	55/F/A/W/T	23M	
		E2	-DO-	---	23M	
		W1	-DO-	56/F/A/W/T	23M	
		W2	-DO-	47/F/A/X/T	23M	
3.	ACL and elevation		Apron1	Apron2	Apron3	
		Elev.	887M/2910FT	895M/2935FT	885M/2904FT	
4.	VOR/INS checkpoints	VOR	East Link TWY	Holding Position 284°/0.5NM		
			Perimeter TWY (East)	Holding Position 045°/0.3NM		
			West Link TWY	Holding Position 273°/1.3NM		
			Perimeter TWY (West)	Holding Position 273°/1.67NM		
				THR RWY 09: 269°/1.7NM THR RWY 27: 055°/0.2NM		
		INS	Rwy09 THR: 125651N 0773918E (876.116M) Rwy27 THR: 125701N 0774108E (881.690M) West Link TWY W1 125656N 0773937E 878.309M East Link TWY E1: 125659N 0774024E 887.046M ARP: 12°57'03"N 077°39'57"E (888.347M)			
5.	Remarks	*See coordinates of stands in Apron 1 in AD 2.23				

**VOBG AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS**

1.	Use of aircraft stand ID signs, TWY guidelines and visual docking / parking guidance system of aircraft stands	Taxing guidance signs at all intersections with TWY and RWY at all holding positions. Guidelines at aprons, nose-in-guidance (PAPA-AGNIS) available for bays 5/5A & 6 at Apron1, along with aerobridge facility.		
2.	RWY and TWY markings and LGT	RWY	Marked	Designation, THR, TDZ Centerline, Edge.
			Lighted	Edge, THR/End
		TWY	Marked	Center Line, Holding Position.
			Lighted	Edge.
3.	Stop bars	Nil		
4.	Remarks	Nil		

**VOBG AD 2.10 AERODROME OBSTACLES**

In approach /TKOF areas			In circling area and at AD		Remarks
1.			2.		
RWY/Area affected	Obstacle type Elevation Marking/LGT	Coordinates	Obstacle type Elevation Marking/LGT	Coordinates	
a	b	c	a	b	
1 RWY09 TKOF APCH 27	SECURITY HUT 884.82M	125708.7N 0774103.8E	PUBLIC UTILITY BUILDING 1003M LGTD	125826N 0773637.7E	
	SECURITY HUT 884.79M	125702.8N 0774103.8E			
	WDI 887.68M	125657.2N 0774106.0E	JAYANAGAR COMPLEX 978M LGTD	125544.1N 077356.7E	
	TREE 884.05M	125706.1N 0774125.3E	MICROWAVE TOWER 1 997M LGTD	125854.0N 0773520.7E	
	HT PYLON MAST 914.29M	125702.8N 0774303.2E	MICROWAVE TOWER 2 1025M LGTD	125458.0N 0773452.7E	
	HT PYLON MAST 918.42M	125716.2N 0774303.6E	TV TOWER 1037M LGTD	125458.1N 0773535E	
7.RWY27 TKOF APCH 09	WDI 882.00M	125659.4N 0773911.7E	AIR MAST 1002M LGTD	130357N 0774701.6E	
	TEMPLE 878.37M	125658.2N 0773910.4E			
	PUMP STATION 878.37M	125653.3N 0773911.7E			
	ELECTRIC POLE 881.81M	125652.6N 0773912.0E			
	BOUNDARY WALL 876.60M	125652.4N 0773912.0E			
	MOBILE RD TFC 880.50M	125651.7N 0773912.0E			
	LLZ ANTENNA 877.24M	125656.2N 0773904.2E			
	MOBILE RD TFC 881.13M	12572.7N 0773902.0E			
	TREE 897.87M	125650.0N 0773859.3E			
	MOBILE RD TFC 880.95M	125656.2N 0773857.0E			
	TREE 890.62M	125659.8N 0773858.0E			

18.	TREE ON BUND 883.46M	125655.2N 0773855.9E			
19.	TREE (PIPAL) 893.98M	125653.3N 0773850.6E			
20.	GROUP OF TREES 899.96M	125652.6N 0773851.2E			
21.	TREE 898.48M	125654.2N 0773846.0E			
22.	TREE 893.76M	125655.9N 0773844.3E			
23.	TREE 901.48M	125657.2N 0773841.8E			
24.	GROUP OF TREES 903.71M	12571.4N 0773839.3E			
25.	TREE 904.12M	125652.4N 0773832.8E			
26.	BUILDING 897.86M	125653.3N 0773833.1E			

**VOBG AD 2.11 METEOROLOGICAL INFORMATION PROVIDED**

1.	Associated MET office	Meteorological Office , Bangalore
2.	Hours of service Met office outside hours	H-24 -----
3.	Office responsible for TAF preparation Periods of validity	MET center, Bangalore H-24
4.	Types of landing forecast Interval of issuance	Trend Every Half Hour
5.	Briefing / consultation provided	Personal Consultation
6.	Flight documentation Language(s) use	Tabular / Pictorial / Chart Form English
7.	Charts and other information available For briefing or consultation	Surface Charts, Pilot/Temp./Constant Pressure Charts, METAR/TAFOR etc.
8.	Supplementary equipment available for Providing information	Satellite Pictures/Facsimile Broadcast Of Prognostic Charts for Surface/Upper Level and significant weather below FL 460 And Tropopause/Max Wind.
9.	ATS units provided with information	Bangalore ATS Reporting Office
10.	AD Additional information (limitation of service, etc.)	Ph 080-25220960, 25220605

**VOBG AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS**

Designations RWY NR	True & Mag Brg	Dimensions of RWY(M)	Strength (PCN) and surface of RWY and SWY	THR coordinates	THR elevation and Highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
09	085°GEO 088°M	3306X61	60/F/A/X/T Bitumen	125656N 0773913.7E	876.116M/2874FT
27	265°GEO 268°M	3306X61	60/F/A/X/T Bitumen	125706N 0774103.6E	881.690M/2893FT
Slope of RWY- SWY	SWY dimensions ( M)	CWY dimensions (M)	Strip dimensions (M)	OFZ	Remarks
7	8	9	10	11	12
0.63%	90X61	300X150	3666X165	Eastern side of Airport	Refer the note.
0.39%	NIL	300X150			

**NOTE :**  
**COLUMN**

- 7 Overall Slope : 0.35 %
- 8 A distance of 90M is available as SWY for RWY 09. However, caution should be exercised for a steep drop in terrain after RESA for RWY 09.
- 9 Width of strip: 90M North of RWY centerline.  
75M South of RWY centerline.
- 11 Trees have been planted in the Golf club grounds , which is situated approximately 1km west of RWY (Approach path of Rwy09) , these trees are being pruned by golf club personnel periodically on the advice of ATS authorities to be within permissible limit.

**VOBG AD 2.13 DECLARED DISTANCES**

RWY Designation		TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1		2	3	4	5	6
Rwy09	Heavy Aircraft	3155	3429	3155	3307	RESA of 150M & 140M is available for both RWY 09/27. Caution has to be exercised for a steep drop in the terrain after RESA for RWY 09.
	Other	3306	3606	3396	3307	
Rwy27	Heavy Aircraft	3155	3429	3155	3307	
	Other	3306	3606	3306	3307	

**VOBG AD 2.14 APPROACH AND RUNWAY LIGHTING**

RWY Designator	APCH LGT Type LEN INTST	THR LGT Colour WBAR	VASIS (MEHT) PAPI	TDZ, LGT LEN	RWY Centerline LGT Length, Spacing Color, INTST	RWY Edge LGT, LEN Spacing Color, INTST
1	2	3	4	5	6	7
09	SALS 300M	Green	PAPI Left/3°	----	----	3300M 60M
27	SALS 300M	Green	PAPI Left/3°	----	----	3300M 60M
RWY end LGT colour WBAR		SWY LGT LEN (M) colors		Remarks		
8		9		10		
Red		----		----		
Red		----		----		

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

1.	ABN/IBN location, characteristics and Hours of operation	ABN	1 km north of control tower over water tank FLG W&G ; RPM : 12 During night and low visibility.
		IBN	Nil
2.	LDI location and LGT Anemometer location and LGT	LDI	Appx. 700 M North of Control Tower , unlighted.
		Anemometer	Over ATS reporting office (1000m north of control tower) unlighted
3.	TWY edge and centre line lighting	Edge	All TWY except W2 where blue reflectors substitute for TWY lighting.
		Centre line	Nil
4.	Secondary power supply/ Switch-over time	Secondary power supply to all lighting at AD 6 sec.	
5.	Remarks	UPS available to essential installations.	

**VOBG AD 2.16 HELICOPTER LANDING AREA**

1.	Coordinates TLOF or THR of FATO	Helipad Alpha : 125730N 0774041E Helipad Bravo : 125713N 0774048E
2.	TLOF and/or FATO elevation M/FT	Helipad Alpha : 881m Helipad Bravo : 891m
3.	TLOF and FATO area dimensions, Surface, strength, marking	Helipad Alpha : 92mx46m White "H" Helipad Bravo : 25mx15m White "H" strength to be determined for both the Helipad.
4.	True and MAG BRG of FATO	Nil
5.	Declared distance available	Nil
6.	APP and FATO lighting	Nil
7.	Remarks	Nil

**VOBG AD 2.17 ATS AIRSPACE**

1.	Designation and lateral limits	BANGALORE CTR : A circle of radius 50 NM, centered at 125708.0 N 0773952.7 E (ARP).
2.	Vertical limits	BANGALORE CTR : GND to FL120
3.	Airspace classification	CLASS 'D'
4.	ATS unit call sign Language(s)	BANGALORE TOWER/APPROACH/RADAR/PRECISION English
5.	Transition altitude	6000 FT MSL
6.	Remarks	Restricted Airspaces viz, VOR 181A/VOR 181B/VOR 185 are controlled by HAL (Bangalore) ATC

**VOBG AD 2.18 ATS COMMUNICATION FACILITIES**

Service Designator operation	Call sign	Frequency	Hours of	Remarks
1	2	3	4	5
TWR	BANGALORE TOWER	123.5MHZ	H24	VDF Available
SMC	BANGALORE GROUND	121.95MHz	H24	
APP	BANGALORE APPROACH	127.7MHZ	H24	VDF Available
ASR	BANGALORE RADAR	127.7MHz 122.7MHz	0130-1630 UTC	Primary Freq. Secondary Freq.
PAR	BANGALORE PRECISION	119.5MHz	0130-1630 UTC	
ATIS	BANGALORE INFORMATION	128.25MHz	H24	Computer generated Voice

**VOBG AD 2.19 RADIO NAVIGATION AND LANDING AIDS**

Type of aid CAT of ILS/MLS (For VOR/ILS/ MLS, give VAR)	ID	Frequency	Hours of operation	site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
DVOR (2.15°W/1995)	BBG	115.5MHz	H24	125659.1N 0774051.6E		100W
DME	BBG	1189/1126	H24	-DO-	895M	Colocated With DVOR
ILS CAT I LLZ27	BLR	110.5Mhz	H24	125650N 0773909E		
GP27		329.6MHz CH24X	H24	125701.5N 0774055.6E		
GP DME		1003/1066 MHz	H24	-DO-	897M	ILS DME colocated with GP
NDB	BG	363KHZ	H24	125810N 0774250.6E	926M	400W

**VOBG AD 2.20 LOCAL TRAFFIC REGULATIONS**

----

**VOBG AD 2.21 NOISE ABATEMENT PROCEDURE**

----

**VOBG AD 2.22 FLIGHT PROCEDURES**

-----

**VOBG AD 2.23 ADDITIONAL INFORMATION**

Stand No	Coordinates	Remarks
1	N125713 E0773941	1. All the stands to be used in Power-in/push-back mode. 2. Nose-in guidance (PAPA-AGNIS) available for Bays 5/5A & 6, along with Aerobridge facility.
2	N125713 E0773943	
3	N125713 E0773944	3a. When Stand 5A is used, the vehicular path west of stand will remain closed.  3b. Two B747-400 types of aircraft could be parked in Bays 5A & Bay 6 simultaneously.
4	N125713 E0773945	
5	N125713 E0773947	4. When Bay 4 is occupied, the aircraft parked in Bay 1,2 & 3 (except ATRs) shall be pushed back up to main taxiway to avoid jet blast to the aircraft in stand 4.
5A	N125712 E0773946	
6	N125713 E0773949	
7	N125713 E0773952	
8	N125710 E0773952	
9	N125710 E0773949	
10	N125710 E0773947	

- I. Coordinates of stands in Apron 1
- II. Operators of Medium/Heavy Acft to ensure availability of Tow Bar for Pushback due Nose – In Parking Stands.
- III. TWY W2 operational for occasional use during daytime at the discretion of ATC. First 150M of TWY shoulder of intersection with TWY W1 (West Link) TWY is not ramped / merged with the adjoining area. All the taxiing aircraft to exercise caution.
- IV. TWY E2 available for operation during day and night for light and medium type of aircraft. Length 1390M from east link TWY to THR RWY 27
- V. H24 , Regular Helicopter flying will take place over Bravo helipad which is 250 M North of RWY 09/27. All ARR/DEP ACFT to exercise caution.
- VI. All Arrivals and Departures aircrafts may activate ACAS when flying over VOYK Air-force base as intense training flights are in progress.
- VII. Microwave mast installed LOC 125714N 0773950E Hgt 921M AMSL. Dist 1139FT approx. from ARP. Lighted by night.
- VIII. Heavy aircrafts to lineup 152m (500ft) ahead of THR markings to protect arrester barrier at both ends of RWY. For heavy aircraft SWY not avbl. for Rwy 09/27

**VOBG AD 2.24 CHARTS RELATED TO AN AERODROME**

1. ILS RWY 27
2. VOR RWY 27
3. VOR RWY 09
4. NDB CIRCLING