AD 2. AERODROMES

VAAU AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VAAU - AURANGABAD / INTL

VAAU AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	Aerodrome reference point coordinates and its site	195152N 0752351E 008 DEG / 147M from intersection of RWY & TWY B	
2	Direction and distance of aerodrome reference point from the centre of the city or town which the aerodrome serves	084 DEG/11KM from Railway station	
3	Aerodrome elevation and reference temperature	1911 FT / 40.0 DEG C	
4	Magnetic variation, date of information and annual change	0.67 DEG W (2010) /0.033 DEG E	
5	Name of aerodrome operator, address, telephone, telefax, e-mail address, AFS address, website (if available)	Airports Authority of India, Aurangabad Airport, Aurangabad - 431201	
		Telephone:	+91-240-2476147
		Fax:	+91-240-2485344
		AFS:	VAAUYDYX
		Email:	apd_vaau@AAI.AERO
6	Types of traffic permitted (IFR/VFR)	IFR/VFR	
7	Remarks	NIL	

VAAU AD 2.3 OPERATIONAL HOURS

1	Aerodrome Operator	MON-FRI 0400-1230 UTC (0930-1800 IST) 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 NOTAM for current ATS HR.
8	Fuelling	As ATS
9	Handling	NIL
10	Security	As ATS
11	De-icing	NIL
12	Remarks	1. Outside of ATS Hours service are available O/R with 24HR PN to AD 2. The ATS approved hourly RWY TFC handling capacity is as follows: Max number of ARR and DEP -12 (the minimum spacing between two successive arrivals shall be more than five min) Max number of arrivals only - 06 Max number of departures only - 10

VAAU AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	NIL
2	Fuel and Oil types	JET A1 ATF/NIL
3	Fuelling facilities and capacity	1 Bouser 9000 liters, 13 liters/sec Hydrant: 12.5 liters/sec
4	De-icing facilities	NIL
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	NIL
7	Remarks	NIL

VAAU AD 2.5 PASSENGER FACILITIES

1	Hotel(s) at or in the vicinity of aerodrome	In the city
2	Restaurant(s) at or in the vicinity of aerodrome	At AD and in the city
3	Transportation possibilities	Car hire from AD.
4	Medical Facilities	First aid at AD. Hospital in the city.
5	Bank and post office at or in the vicinity of aerodrome	Banks: SBI ATM Post office: NIL
6	Tourist office	In the city
7	Remarks	NIL

VAAU AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	Aerodrome category for fire fighting	Within ATS HR: CAT-7
2	Rescue equipment	Available as per category.
3	Capability for removal of disabled aircraft	NIL
4	Remarks	NIL

VAAU AD 2.7 SEASONAL AVAILABILITY CLEARING

1	Type(s) of clearing equipment	NIL
2	Clearance priorities	NIL
3	Remarks	NIL

VAAU AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Designation, surface and strength of aprons	Designator: NEW APRON Surface: Strength: PCN 63/R/B/W/T Designator: OLD APRON Surface: Concrete Strength: PCN 45/R/C/W/T
2	Designation, width, surface and strength of taxiways	Designator: Link TWY Width: 20 M Surface: Macadam Strength: PCN 63/F/C/W/U Designator: TWY A Width: 23 M Surface: Macadam Strength: PCN 63/R/B/W/T Designator: TWY B Width: 23 M Surface: Macadam Strength: PCN 52/F/C/W/T Designator: TWY C Width: 23 M Surface: Macadam Strength: PCN 71/R/B/W/T
3	Location and elevation of altimeter checkpoints	Location: At Apron Elevation: 1912 FT
4	Location of VOR checkpoints	Taxi Holding Position
5	Position of INS checkpoints	NIL
6	Remarks	TWY Lengths: TWY A: 276M TWY B: 190M TWY C: 193M LINK TWY: 30M

VAAU AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand identification signs, taxiway guidelines and visual docking/parking guidance system at aircraft stands	Taxiing guidance provided on R/T
2	Runway and taxiway markings and lights	RWY Markings Designation, THR, TDZ, Centreline, Edge, End RWY Lights: RWY Edge, THR, Turnpad, End TWY Marking: Centreline, Holding Positions TWY Lights: Edge
3	Stop bars (if any)	NIL
4	Remarks	NIL

VAAU 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
27/TKOF 09/APCH	WALL	195138.9N 0752310.9E	1920 FT	NIL	BOUNDARY WALL
27/TKOF 09/APCH	ANTENNA	195148.8N 0752305.5E	1928 FT	NIL	LOC HUT WALL
27/TKOF 09/APCH	TREE	195155.8N 0752220.1E	2011 FT	NIL	TREE
27/TKOF 09/APCH	ANTENNA	195138.9N 0752250.9E	1953 FT	NIL	MOBILE RD TRAFFIC
27/APCH 09/TKOF	POLE	195145.0N 0752438.3E	1894 FT	NIL	ELECT. POLE
27/APCH 09/TKOF	TREE	195142.4N 0752441.0E	1932 FT	NIL	GROUP OF TREES
27/APCH 09/TKOF	POLE	195151.7N 0752404.4E	1897 FT	NIL	TELE POLE
27/APCH 09/TKOF	TREE	195152.5N 0752426.6E	1901 FT	NIL	TREE
27/APCH 09/TKOF	TREE	195150.4N 0752443.6E	1916 FT	NIL	GROUP OF TREE
27/APCH 09/TKOF	TREE	195152.0N 0752441.2E	1922 FT	NIL	GROUP OF TREE
27/APCH 09/TKOF	TREE	195152.8N 0752448.5E	1927 FT	NIL	TREE
27/APCH 09/TKOF	TREE	195145.4N 0752448.0E	1922 FT	NIL	GROUP OF TREES
27/APCH 09/TKOF	TREE	195151.5N 0752456.0E	1942 FT	NIL	GROUP OF TREES
27/APCH 09/TKOF	TREE	195144.9N 0752502.3E	1940 FT	NIL	TREE

VAAU AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Name of the associated meteorological office	Aurangabad
2	Hours of service and, where applicable, the designation of the responsible meteorological office outside these hours	H24
3	Office responsible for preparation of TAFs and periods of validity and interval of issuance of the forecasts	Mumbai 9HR
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;	NIL
9	The air traffic services unit(s) provided with meteorological information	VAAU Aurangabad ATC and ACS
10	Additional information, e.g. concerning any limitation of service.	Wind Direction Indicator lighted

VAAU 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
09	89.00 DEG	2286 x 45 M	78/F/B/W/T	THR: 195146.90N 0752314.10E
27	269.00 DEG	2286 x 45 M	78/F/B/W/T	THR: 195148.10N 0752432.70E

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: 1911.0FT TDZ: 1911.0FT		NIL	NIL	2406 x 150 M
THR: 1884.0FT TDZ: 1893.0FT		NIL	NIL	2406 x 150 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
			PCN VALUES OF RWY AS FLW: AREA PCN VALUE 1) RWY 27/09 (0-700)M 101/F/B/W/T 2) RWY 27/09 (700-1785)M 78/F/B/W/T COMPOSITE PAVEMENT 3) RWY 27/09 (1785-2285)M 72/R/C/W/T 4) RWY 27/09 (2285-2835)M 75/R/B/W/T
			PCN VALUES OF RWY AS FLW: AREA PCN VALUE 1) RWY 27/09 (0-700)M 101/F/B/W/T 2) RWY 27/09 (700-1785)M 78/F/B/W/T COMPOSITE PAVEMENT 3) RWY 27/09 (1785-2285)M 72/R/C/W/T 4) RWY 27/09 (2285-2835)M 75/R/B/W/T

VAAU AD 2.13 DECLARED DISTANCES

RWY Designator	Take-off run available TORA (M)	Take-off distance available TODA (M)	Accelerate distance available ASDA (M)	Landing distance available LDA (M)	Remarks (including runway entry or start point where alternative reduced declared distances have been declared)
1	2	3	4	5	6
09	2286	2286	2286	2286	
27	2286	2286	2286	2286	

VAAU 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
09	SALS 420 M	Green	PAPI LEFT/3.00 DEG	NIL
27	CAT I 460 M	Green	PAPI LEFT/3.00 DEG	NIL

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
	2286 M 60 M White LIH	Red	NIL	THR light provided as Wing Bar
	2286 M 60 M White LIH	Red	NIL	NIL

VAAU 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 As ATS HR
		IBN	NIL
2	Location and lighting (if any) of anemometer/ landing direction indicator;	LDI	30M North of ARP, Not Lighted.
		Anemometer	At TWR building, Not Lighted.
3	Taxiway edge and taxiway centre line lights;	Edge	Lighted
		Centre Line	Not LIGHTED
4	Secondary power supply including switch-over time;	Secondary power supply to all lights at AD. Switch-over time: 15 Sec.	
5	Remarks	NIL	

VAAU AD 2.16 HELICOPTER LANDING AREA

1	Geographical coordinates of the geometric centre of touchdown and lift-off (TLOF) or of each threshold of final approach and take-off (FATO) area	Not Established
2	TLOF and/or FATO area elevation:	Not Established
3	TLOF and FATO area dimensions to the nearest metre or foot, surface type, bearing strength and marking;	Not Established
4	True bearings of FATO;	Not Established
5	Declared distances available	Not Established
6	Approach and FATO lighting;	Not Established
7	Remarks	Not Established

VAAU AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	CTR: Circular area centered on ARP VAAU (195152N 0752351E) within a 25NM radius.
2	Vertical limits	FL 50
3	Airspace classification	D
4	Call sign and language(s) of the air traffic services unit providing service;	Aurangabad TWR, English
5	Transition altitude	5000 FT
6	Hours of applicability	HO
7	Remarks	NIL

VAAU AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	2	3	4
APP	Aurangabad App	122.300 MHZ	
TWR	Aurangabad TWR	118.350 MHZ	
TWR	Aurangabad TWR	122.300 MHZ	
ATIS	Aurangabad Information	127.000 MHZ	
ALRS	Emergency Frequency	121.500 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	6	7
	As ATS	TWR and APP service combined
	As ATS	TWR and APP service Combined (Alternate Freq)
	As ATS	TWR and APP service Combined
	As ATS	NIL
	As ATS	NIL

VAAU AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aids, magnetic variation 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
LOC 27	IAUR	110.100 MHz	AS ATS
GP 27		334.400 MHz	AS ATS
DME ILS 27	IAUR	CH38X	As ATS
DVOR/DME	AAU	116.300 MHz CH110X	H24
NDB	AU	205 kHz	H24

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
195146.3N 0752242.9E			
195143.3N 0752423.7E			3 DEG
195143.3N 0752423.7E	1923 FT		Colocated with GP27
195139.9N 0752418.9E	1917 FT		
195138.0N 0752354.6E			

VAAU AD 2.20 LOCAL AERODROME REGULATIONS

NIL

VAAU AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VAAU AD 2.22 FLIGHT PROCEDURES

NIL

VAAU AD 2.23 ADDITIONAL INFORMATION

1. Aerobridge facility available on aircraft stand 1 and 2.
2. PCN of Isolation bay: 71/R/B/W/T
3. BTN 2330-0059 UTC and 1100-1200 UTC daily subject to technical work large hydrogen filled meteorological uncontrolled balloon shall be launched daily in all weather conditions.
   i. Color of balloon: White
   ii. Weight of balloon: 875 gm.
   iii. Weight of balloon after filling hydrogen gas and attaching Radio sound instrument / Thermistor / Hygrister / baroswitch water activated battery with TX all fixed in a plastic box 1200 gm.
   iv. Balloon launching site: 195149N 0752355E
   v. Rate of ascent of balloon: 18 to 24 Km/Hrs.
   vi. Rate of descent of balloon variable subject to gravitational force
   vii. Site of impact / recovery area Surrounding 200 Km.
   viii. Balloon tracking: Nil
   ix. Purpose of launching Upper air Wx observation.
   x. Size of balloon without instrument: 65-70 cm of diameter
   xi. Size of balloon with instrument (instrument is attached with balloon by a 12 M long thread): 65 to 70 cm of Diameter
4. Four PRKG stands AVBL in New Apron.

Stand No.	Coordinate
1.	195159.39N0752347.49E
2.	195159.37N0752346.00E
3.	195159.62N0752343.93E
4.	195159.60N0752342.47E

AEROBIDGE FAC NOT AVBL ON STAND '3' AND '4'.

VAAU AD 2.24 CHARTS RELATED TO AN AERODROME

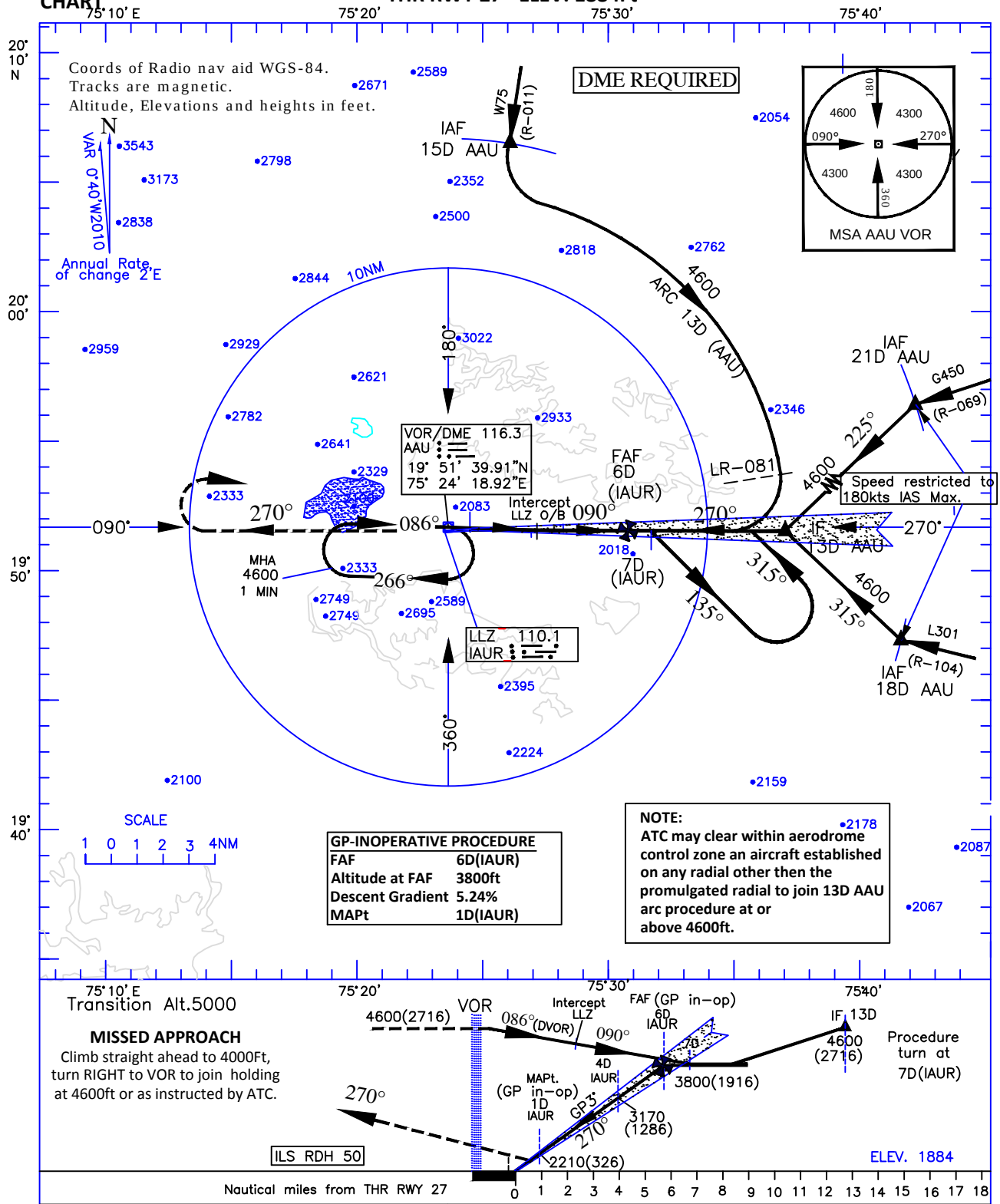
1. ILS (Z) Procedure RWY 27
2. ILS (Y) Procedure RWY 27
3. VOR Procedure RWY 27

INSTRUMENT APPROACH CHART

AERODROME ELEV. 1911Ft
HEIGHT RELATED TO
THR RWY 27 - ELEV. 1884Ft

APP 122.3
TWR 122.3

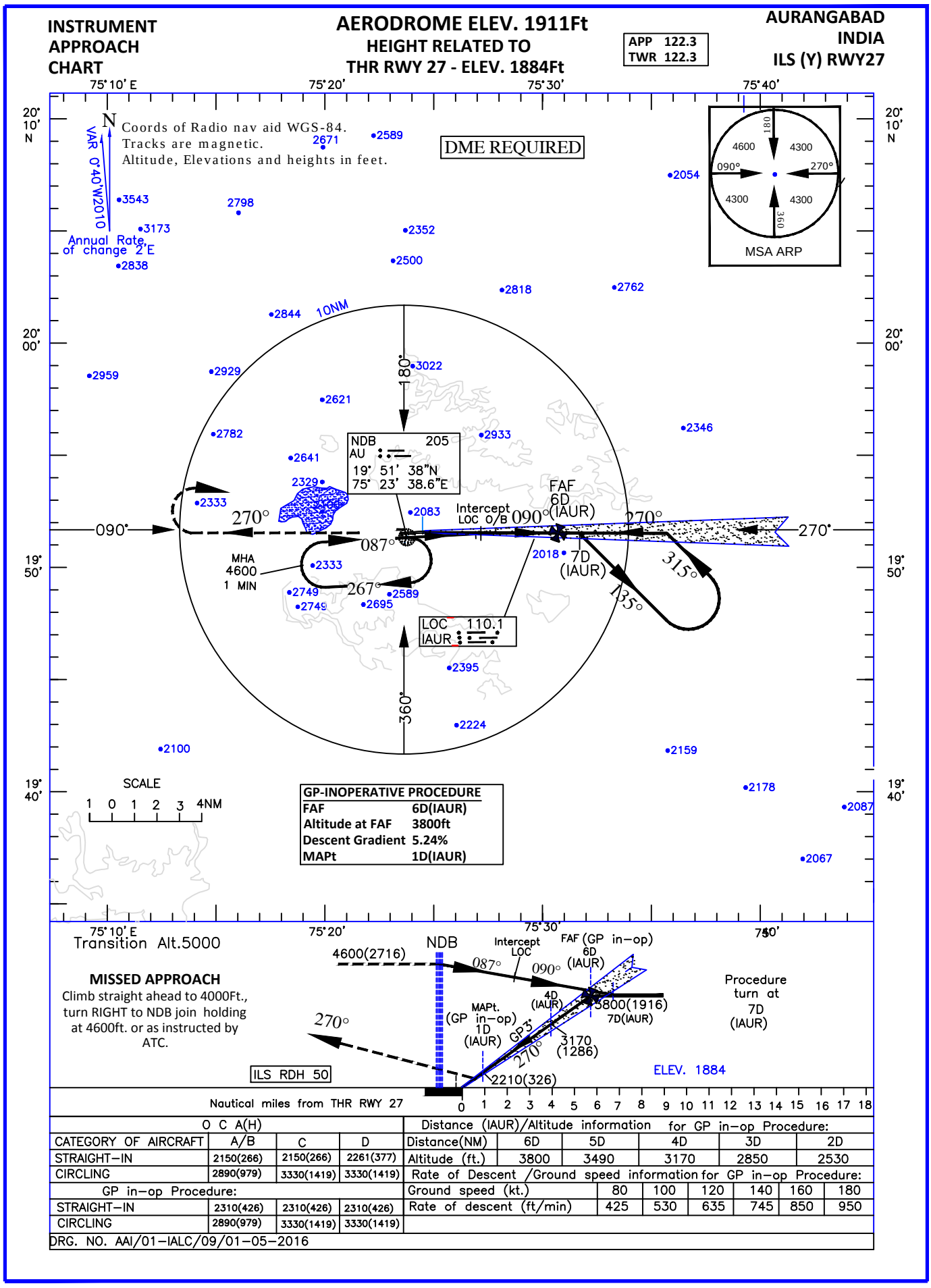
AURANGABAD
INDIA
ILS (Z) RWY27



O C A(H)			
CATEGORY OF AIRCRAFT	A/B	C	D
STRAIGHT-IN	2150(266)	2150(266)	2261(377)
CIRCLING	2890(979)	3330(1419)	3330(1419)
GP in-op Procedure:			
STRAIGHT-IN	2310(426)	2310(426)	2310(426)
CIRCLING	2890(979)	3330(1419)	3330(1419)

Distance (IAUR)/Altitude information for GP in-op Procedure:						
Distance(NM)	6D	5D	4D	3D	2D	
Altitude (ft.)	3800	3490	3170	2850	2530	
Rate of Descent /Ground speed information for GP in-op Procedure:						
Ground speed (kt.)	80	100	120	140	160	180
Rate of descent (ft/min)	425	530	635	745	850	950

DRG. NO. AAI/01-IALC/09/01-05-2016



O C A(H)			
CATEGORY OF AIRCRAFT	A/B	C	D
STRAIGHT–IN	2150(266)	2150(266)	2261(377)
CIRCLING	2890(979)	3330(1419)	3330(1419)
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Distance(NM)	6D	5D	4D	3D	2D
Altitude (ft.)	3800	3490	3170	2850	2530

Rate of Descent /Ground speed information for GP in–op Procedure:						
Ground speed (kt.)	80	100	120	140	160	180
Rate of descent (ft/min)	425	530	635	745	850	950

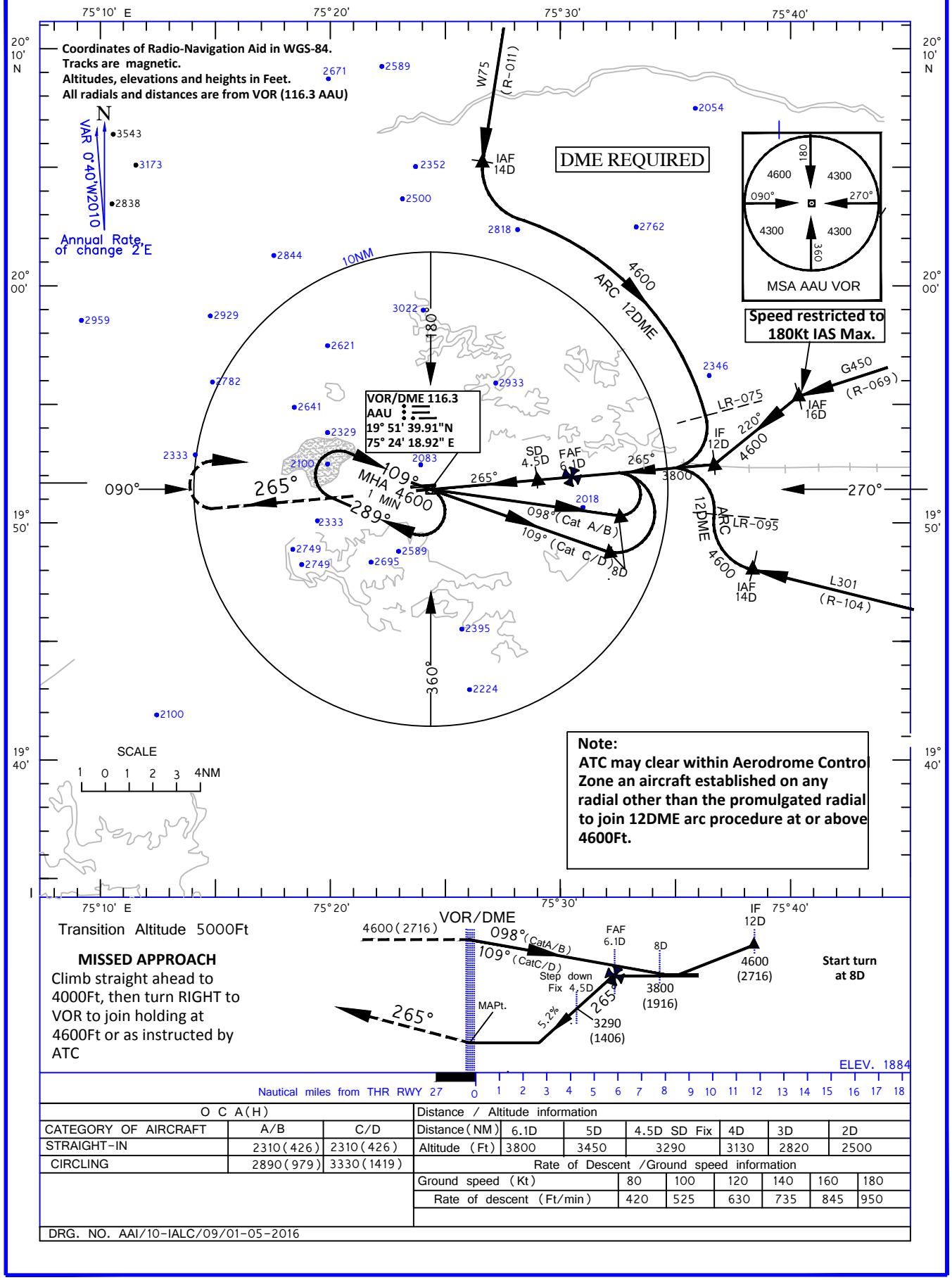
DRG. NO. AAI/01–IALC/09/01–05–2016

INSTRUMENT APPROACH CHART

Aerodrome Elev. 1911Ft
Height related to:
THR RWY27-Elev. 1884Ft

APP 122.3
TWR 122.3

AURANGABAD
INDIA
VOR RWY 27



O C A(H)		
CATEGORY OF AIRCRAFT	A/B	C/D
STRAIGHT-IN	2310(426)	2310(426)
CIRCLING	2890(979)	3330(1419)

Distance / Altitude information						
Distance (NM)	6.1D	5D	4.5D SD Fix	4D	3D	2D
Altitude (Ft)	3800	3450	3290	3130	2820	2500

Rate of Descent /Ground speed information						
Ground speed (Kt)	80	100	120	140	160	180
Rate of descent (Ft/min)	420	525	630	735	845	950

DRG. NO. AAI/10-IALC/09/01-05-2016