

AD 2. AERODROMES**VOTP AD 2.1 AERODROME LOCATION INDICATOR AND NAME**

VOTP - TIRUPATI / INTL

VOTP AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	Aerodrome reference point coordinates and its site	133759N 0793231E 259.5 DEG/160M from intersection of RWY & TWY.
2	Direction and distance of aerodrome reference point from the centre of the city or town which the aerodrome serves	090 DEG/14KM from Tirupati.
3	Aerodrome elevation and reference temperature	350 FT / 42.0 DEG C
4	Magnetic variation, date of information and annual change	2.00 DEG W (1985) /0.00
5	Name of aerodrome operator, address, telephone, telefax, e-mail address, AFS address, website (if available)	Airports Authority of India, Tirupati Airport, Renigunta - 517520
	Telephone:	+91-877-2275334, 2275354, 2100171
	Fax:	+91-877-2275338/ 2275353
	AFS:	VOTPYDYX
	Email:	apdtp@aai.aero
6	Types of traffic permitted (IFR/VFR)	IFR/VFR
7	Remarks	NIL

VOTP 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	24 Hrs prior notification for NON-SKED operation.

VOTP AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	NIL
2	Fuel and Oil types	JET A1
3	Fuelling facilities and capacity	BPCL-3 Bowser/73,000 Litres. HPCL-2 Bowsers/27000 Litres
4	De-icing facilities	NIL
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	NIL
7	Remarks	NIL

VOTP 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	In the city.
3	Transportation possibilities	Taxi & 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: NIL Post office: NIL
6	Tourist office	NIL
7	Remarks	NIL

VOTP AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	Aerodrome category for fire fighting	Within ATS HR: CAT-7
2	Rescue equipment	AVBL as per category.
3	Capability for removal of disabled aircraft	NIL
4	Remarks	24 HR PN for Non-Sked Operations.

VOTP AD 2.7 SEASONAL AVAILABILITY CLEARING

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

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

1	Designation, surface and strength of aprons	Designator: APRON Surface: Concrete/Asphalt Strength: PCN 57/R/B/X/T			
2	Designation, width, surface and strength of taxiways	Designator: TWY A Width: 23 M Surface: Asphalt Strength: PCN 63/F/D/X/T			
3	Location and elevation of altimeter checkpoints	Stand 1: 102.259M Stand 2: 102.166M Stand 3: 101.981M Whole APN serves as Pre FLT ACL			
4	Location of VOR checkpoints	At Holding Position on TWY A R267 DEG /1.2NM			
5	Position of INS checkpoints	NIL			
6	Remarks	Aircraft Stands' Details			
		Stand No.	Strength	Coordinates	Remarks
		1	57/R/B/X/T	133804.8N 0793233.7E	A321
		2	57/R/B/X/T	133805.7N 0793236.6E	ATR-72
		3	57/R/B/X/T	133805.3N 0793237.9E	A321
		Size of apron:159.50M X 120M.			

VOTP 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, Guidelines at Apron. Nose in guidance at aircraft stands.
2	Runway and taxiway markings and lights	RWY Markings: Marked as appropriate. RWY Lighting: AVBL. TWY Markings: Marked as appropriate. TWY Lighting: AVBL.
3	Stop bars (if any)	---
4	Remarks	Signage Board in operational area available.

VOTP 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
26/TKOF 08/APCH	TREE	133753.7N 0793155.6E	355 FT	NIL	TREE
26/TKOF 08/APCH	TREE	133751.0N 0793140.6E	384 FT	NIL	TREE
In circling area and at AD	NATURAL HIGHPOINT	134300.0N 0793355.8E	2247 FT	NIL	HILL
In circling area and at AD	NATURAL HIGHPOINT	134232.4N 0793436.8E	1985 FT	NIL	HILL
In circling area and at AD	NATURAL HIGHPOINT	133711.4N 0793854.2E	2759 FT	NIL	HILL
In circling area and at AD	NATURAL HIGHPOINT	133059.2N 0793735.6E	3425 FT	NIL	HILL
In circling area and at AD	NATURAL HIGHPOINT	133121.9N 0793529.6E	2913 FT	NIL	HILL
In circling area and at AD	NATURAL HIGHPOINT	133156.8N 0793401.3E	2405 FT	NIL	HILL
In circling area and at AD	NATURAL HIGHPOINT	133140.5N 0792735.5E	2474 FT	NIL	HILL
In circling area and at AD	NATURAL HIGHPOINT	134228.4N 0792950.1E	994 FT	NIL	HILL
In circling area and at AD	NATURAL HIGHPOINT	133530.8N 0793932.0E	2713 FT	NIL	HILL
In circling area and at AD	NATURAL HIGHPOINT	134015.2N 0792838.7E	1319 FT	NIL	HILL
In circling area and at AD	NATURAL HIGHPOINT	134016.7N 0792636.2E	1903 FT	NIL	HILL
In circling area and at AD	NATURAL HIGHPOINT	134043.8N 0793145.5E	692 FT	NIL	HILL
In circling area and at AD	NATURAL HIGHPOINT	133914.6N 0792143.6E	3248 FT	NIL	HILL
In circling area and at AD	TOWER	134114.6N 0791923.2E	4065 FT	NIL	TV TOWER ONHILL
In circling area and at AD	NATURAL HIGHPOINT	134000.8N 0792345.6E	2677 FT	NIL	HILL
In circling area and at AD	OTHER	133657.6N 0794403.5E	2808 FT	LGTD	SOLAR LGT

VOTP AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Name of the associated meteorological office	Tirupati
2	Hours of service and, where applicable, the designation of the responsible meteorological office outside these hours	As ATS
3	Office responsible for preparation of TAFs and periods of validity and interval of issuance of the forecasts	Hyderabad 9 HR (00-09, 03-12, 06-15, 09-18)
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	Hyderabad ATC and ACS.
10	Additional information, e.g. concerning any limitation of service.	Document provided O/R. Wind Direction Indicator lighted. LOC northwest of ARP

VOTP 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
08	81.53 DEG	2286 x 45 M	63/F/D/X/T Asphalt	THR: 133752.30N 0793158.90E
26	261.53 DEG	2286 x 45 M	63/F/D/X/T Asphalt	THR: 133803.30N 0793314.60E

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: 350.4FT TDZ:	-0.25%			2526 x 150 M
THR: 332.0FT TDZ:	-0.25%			2526 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
			NIL
			NIL

VOTP 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
08	2286	2286	2286	2286	
26	2286	2286	2286	2286	

VOTP 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
08	SALS 420 M LIH	Green	PAPI LEFT/3.00 DEG	NIL
26	900 M CAT I PALS LIH	Green	PAPI LEFT/3.20 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		Standby HIRL system AVBL.
	2286 M 60 M White LIH	Red		PAPI RWY26 DIST FM THR RWY26 is 322.8M synchronised with GP/ ILS RWY26. Standby HIRL system AVBL

VOTP AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Location, characteristics and hours of operation of aerodrome beacon/identification beacon (if any)	ABN	TOWER BLDG. As ATS
		IBN	
2	Location and lighting (if any) of anemometer/landing direction indicator;	LDI	400 M E of ARP, lighted.
		Anemometer	NIL
3	Taxiway edge and taxiway centre line lights;	Edge	AVBL.
		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	The circling guidance lighting system installed and commissioned at both RWYs 08 & 26	

VOTP 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:	--
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	--

VOTP AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	CTR: Circular area centered on DVOR TTP (133806N 0793349E) within a 25NM radius.
2	Vertical limits	FL 95
3	Airspace classification	D
4	Call sign and language(s) of the air traffic services unit providing service;	Tirupati Tower, English
5	Transition altitude	8000 FT
6	Hours of applicability	HO
7	Remarks	NIL

VOTP AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	2	3	4
TWR	Tirupati Tower	119.000 MHZ	
TWR	Tirupati Tower	124.300 MHZ	
ATIS	Tirupati Info	127.850 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	6	7
	As ATS	NIL
	As ATS	SDBY FREQ
	As ATS	NIL

VOTP 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 26	ITPY	111.300 MHz	As ATS
GP 26		332.300 MHz	As ATS
DME ILS 26	ITPY	CH50X	As ATS
DVOR/DME	TTP	115.700 MHz CH104X	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
133750.5N 0793150.1E			
133805.3N 0793303.5E			
133805.3N 0793303.6E	371 FT		Co-located with GP
133805.9N 0793348.8E	355 FT		

VOTP AD 2.20 LOCAL AERODROME REGULATIONS

VOTP AD 2.21 NOISE ABATEMENT PROCEDURES

VOTP AD 2.22 FLIGHT PROCEDURES

VOTP AD 2.23 ADDITIONAL INFORMATION

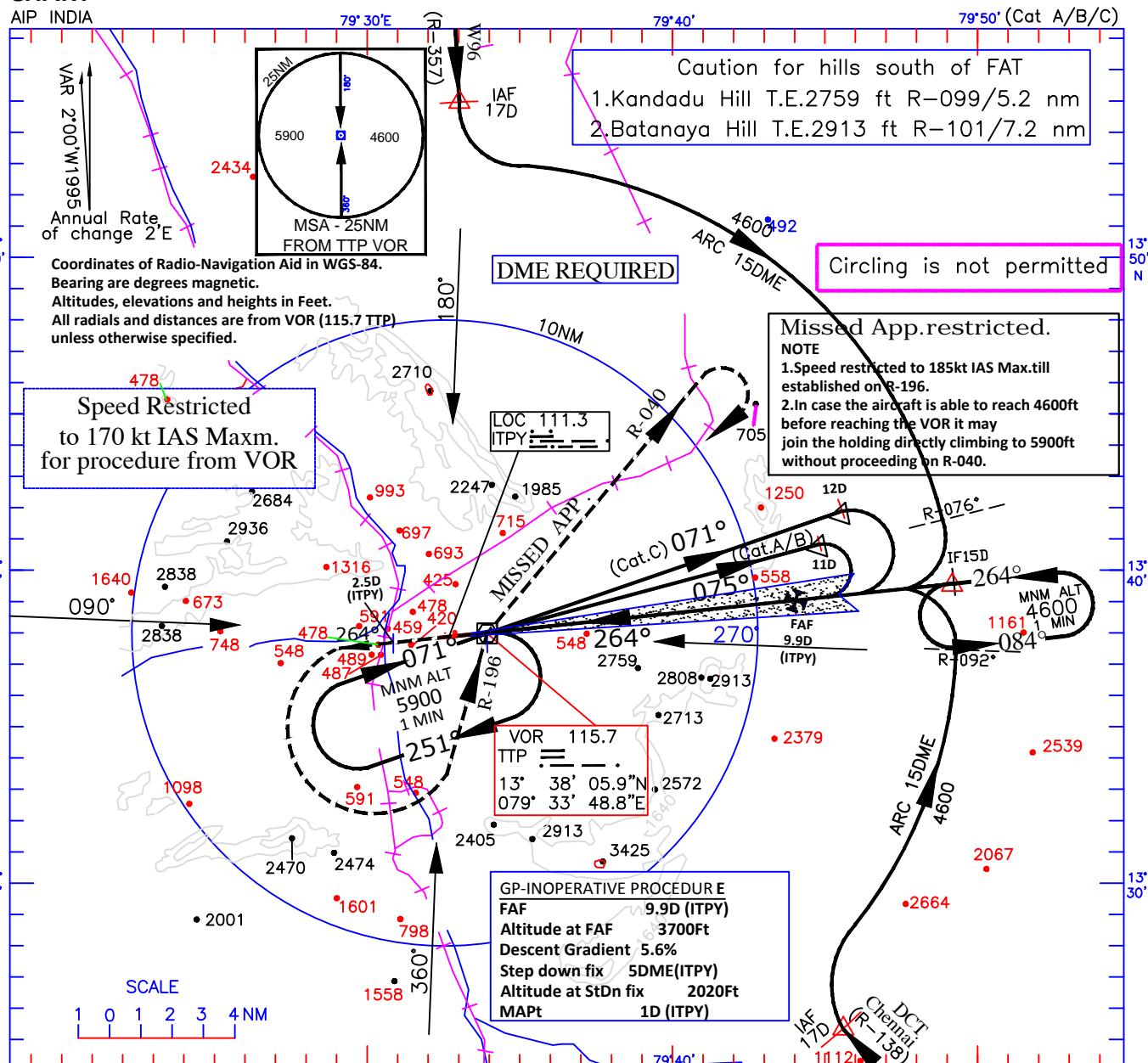
S.NO.	TYPE OF OBSTACLE	Solar powered obstacle light	BRG. & DIST. FM APR	Height (FT)	Elevation (FT)	Remarks
1.	Rangasamy Konda Hill	Installed	164.5 DEG 6.4 NM	2395	----	See Note A
2.	Sadasiva Konda Hill	-DO-	145 DEG 9 NM	3413	----	See Note B
3.	Badnaiah Konda Hill	-DO-	101 DEG 8.8 NM	2575	2913	----
4.	Manaadeesula Konda/ Erpedu Hill	-DO-	015 DEG 5.31 NM	1904	2244	----
5.	Ganta Mandapalli/ Tirupati Hill	-DO-	276. 5 DEG 10. 67 NM	2881	3221	----
6.	Karakambadi Hill	-DO-	297 DEG 4.47 NM	987	1327	----
7.	Thondavada Durgam Sanambatla Hill	-DO-	246 DEG 13.95 NM	2270	2610	----
8.	Gopalagutta Hill	-DO-	085 DEG 7 NM	686	1026	----
9.	Kandadukonda Hill	-DO-	097 DEG 6.42 NM	2435	2775	----
10.	Potha Gunta/ Sudda Kalva Hill	-DO-	123.5 DEG 4.36 NM	614	954	----
11.	Irugulapachalam/ Sudha Kalva Hill	-DO-	149 DEG 4.36 NM	845	1185	----
12.	Kuppuchandra Hill	-DO-	245 DEG 8.47 NM	759	1099	----
Note: A. Lower Limit: GND & Upper Limit: 2396 FT B. Lower Limit: GND & Upper Limit: 3413 FT						

VOTP AD 2.24 CHARTS RELATED TO AN AERODROME

1. ILS Procedure RWY 26 (DME REQUIRED) (CAT A/B/C)
2. VOR Procedure RWY 26

**INSTRUMENT
APPROACH
CHART**Aerodrome Elev 350Ft
Height related to:
THR RWY 26-Elev 332Ft

TWR.119.0

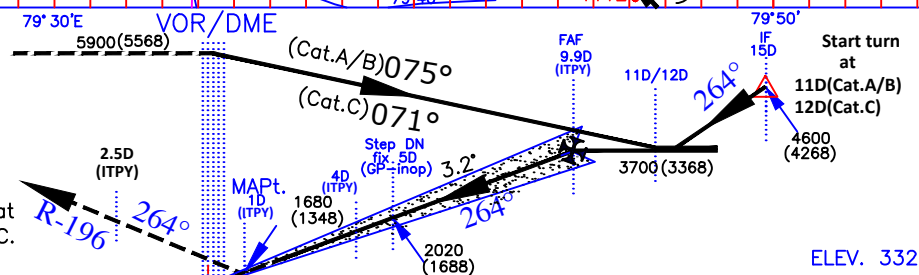
**TIRUPATI
INDIA
ILS RWY 26**

Transition Altitude 8000

MISSED APPROACH

Climb straight ahead, at 2.5D (ITPY) after crossing THR turn left to establish R-196 to VOR climbing to 5900ft, then climb via radial 040, passing 4600ft turn right to join VOR holding at 5900 ft or as instructed by ATC.

ILS RDH-57 ft



NAUTICAL MILES FROM THR RWY 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

O. C. A. (H)		Distance (ITPY) /Altitude information (G.P.in operative)									
CATEGORY OF AIRCRAFT	A/B/C	Distance(NM)	9.9D	9D	8D	7D	6D	5D	4D	3D	2D
STRAIGHT-IN	540(208)	Altitude (ft.)	3700	3380	3040	2700	2360	2020	1680	1340	1000
G.P.In-operative procedure		Ground speed/Rate of descent information (G.P.In-operative)									
STRAIGHT-IN	740(408)	Ground speed (kt.)	160		140	120	100	80			
		Rate of descent (ft/min)	905		790	680	570	450			

DRG. NO. AAI/11-IALC/2010/01.05.16

INSTRUMENT

APPROACH

CHART

AIP INDIA

AERODROME ELEV 350ft.

Heights are related to
THR RWY 26-ELEV 332ft

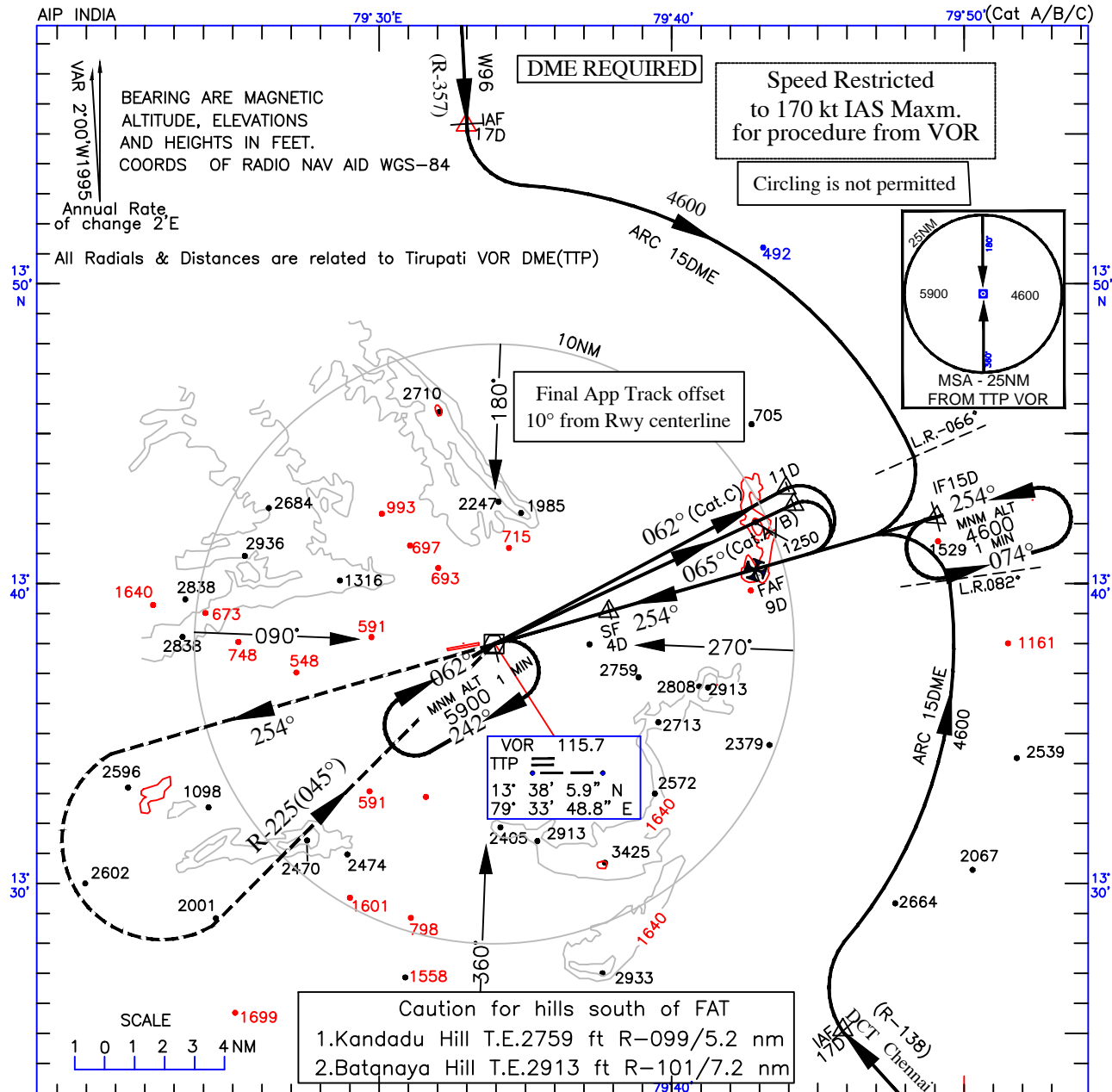
TWR.119.0

TIRUPATI

INDIA

VOR RWY 26

(Cat A/B/C)



Transition Altitude 8000		79° 30'E		5900 (5568)		VOR/DME		79° 50'		IF15D		4600 (4268)	
MISSED APPROACH													
NAUTICAL MILES FROM THR RWY 26		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17											
O. C. A. (H)		Distance /Altitude information											
CATEGORY OF AIRCRAFT	A/B/C	Distance(NM)	9D	8D	7D	6D	5D	4D	3D	2D	1D		
STRAIGHT-IN	800(468)	Altitude (ft.)	3400	3090	2770	2460	2140	1830	1510	1190	880		
		Ground speed/Rate of descent information											
Circling is not permitted		Ground speed (kt.)	80	100	120	140	160						
		Rate of descent (ft/min)	420	525	630	735	845						
DRG. NO. AAI/11-IALC/05/01-05-2016		AIRPORTS AUTHORITY OF INDIA											