AD 2. AERODROMES

VOML AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VOML - MANGALORE / INTL

VOML AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	Aerodrome reference point coordinates and its site	125743N 0745323E 312 DEG /78.83m from RWY 09/27 & TWY A intersection.	
2	Direction and distance of aerodrome reference point from the center of the city or town which the aerodrome serves	022 DEG, 13KM from Mangalore	
3	Aerodrome elevation and reference temperature	320 FT / 32.0 DEG C	
4	Magnetic variation, date of information and annual change	1.86 DEG W (2010) /0.033 DEG E	
5	Name of aerodrome operator, address, telephone, telefax, e-mail address, AFS address, website (if available)	Airport Director, Airports Authority of India, Mangalore Airport, Kenjar, Bajpe P.O., Mangalore - 574142,	
		Telephone:	+91-824-2220400, +91- 9483523178
		Fax:	+91-824-2254175
		AFS:	VOMLYHYX
		Email:	apd_mangalore@aai.aero
6	Types of traffic permitted (IFR/VFR)	IFR/VFR	
7	Remarks	Aerodrome located on hilltop. Valleys 200 FT to 250 FT immediately beyond Runway End Safety Area	

VOML AD 2.3 OPERATIONAL HOURS

1	Aerodrome Operator	MON-FRI 0400-1230 UTC (0930-1800 IST) Sat/Sun/Holiday: Nil
2	Custom and immigration	H24
3	Health and sanitation	H-24 Doctor available on call basis & First Aid/ Medication Inspection Room available In terminal Building
4	AIS briefing office	Available during Watch Hrs of TWR
5	ATS reporting office (ARO)	Available during Watch Hrs of TWR
6	MET Briefing office	H24
7	Air Traffic Service	As per NOTAM
8	Fuelling	H24
9	Handling	PN with local handling agencies
10	Security	H24
11	De-icing	NIL
12	Remarks	1. Non-sked flights to obtain positive clearance prior to departure due limited parking stands

VOML AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	Limited, Manual
2	Fuel and Oil types	JET A1 (ATF-K50)

3	Fuelling facilities and capacity	1. IOC: 03 Refuller 11000 Litres, Two with 16000 Litres. Discharge rate 1200 LTR/MIN. UG tank fuel storage capacity 140Kl. Contact no. +91-824-2252436 2. HPCL: 04 no. Refuellers capacity16000 litre each, UG tank fuel storage capacity 140Kl. Contact no +91-824-2254340 3. Shell/MRPL: Refullers 03 no. of 18000 lts. And 01 no. of 8000 lts. Total fuel storage capacity 202KL (including refullers). Contact no. +91-824-2252832
4	De-icing facilities	NIL
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	NIL
7	Remarks	NIL

VOML AD 2.5 PASSENGER FACILITIES

1	Hotel(s) at or in the vicinity of aerodrome	In the city. Nearest at 4.5 km.
2	Restaurant(s) at or in the vicinity of aerodrome	At AD and in the city.
3	Transportation possibilities	Buses, Taxis and Car hire availble.
4	Medical Facilities	First aid at AD. Hospitals in the city.
5	Bank and post office at or in the vicinity of aerodrome	Banks: At AD. Axis Bank Post office: ATM counter 24HR.Foreign Exchange counter AVBL .
6	Tourist office	Office in the city, Tele-No. +91-824- 2421692 /2442926
7	Remarks	NIL

VOML AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	Aerodrome category for fire fighting	
2	Rescue equipment	Available as per category.
3	Capability for removal of disabled aircraft	Limited Facility available. Local Arrangement with MRPL, NMPT for cranes.
4	Remarks	NIL

VOML AD 2.7 SEASONAL AVAILABILITY CLEARING

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

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

1	Designation, surface and strength of aprons	Designator: New Apron Surface: Concrete Strength: PCN 86/R/B/W/T Designator: Old Apron Surface: Concrete Strength: PCN 64/R/C/W/T

2	Designation, width, surface and strength of taxiways	Designator: A Width: 23 M Surface: Asphalt Strength: PCN 54/F/B/W/T Designator: B Width: 23 M Surface: Asphalt Strength: PCN 54/F/B/W/T Designator: C Width: 23 M Surface: Asphalt Strength: PCN 80/F/B/W/T Designator: D Width: 23 M Surface: Asphalt Strength: PCN 80/F/B/W/T Designator: E Width: 23 M Surface: Concrete Strength: PCN 80/R/B/W/T Designator: G Width: 23 M Surface: Concrete Strength: PCN 74/R/B/W/T Designator: G1 Width: 23 M Surface: Concrete Strength: PCN 74/R/B/W/T Designator: H Width: 15 M Surface: Asphalt Strength: PCN 20/F/B/X/U Designator: J Width: 23 M Surface: Concrete Strength: PCN 74/R/B/W/T
3	Location and elevation of altimeter checkpoints	Location Old Apron Elevation 334.645 FT New Apron Elevation 288.713 FT
4	Location of VOR checkpoints	At TWY A & B holding positions
5	Position of INS checkpoints	NIL

6	Remarks	TWY Designator	Location	Shoulder	Length
		A	866 M FM BEG OF RWY 27 AND NORTH OF RWY	7.5 M on both sides	
		B	756 M FM BEG OF RWY 27 AND NORTH OF RWY	7.5 M on both sides	
		C	At the beginning of RWY 24 and 291.45 m fm beginning of RWY 27 left side	7.5 M on both sides	130.5M
		D	At a distance of 700m fm THR RWY 24 and 1630 M FM THR RWY 06	7.5 M on both sides	468M
		E	N-W of RWY 06/24. 2438.5m from THR RWY 24,	7.5 M on both sides	402.4 M
		H	976.4M from THR RWY 27,RIGHT	No shoulder for TWY H	76.5M

VOML 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	Aircraft ID marking provided on ground, Nose-in, guidance at aircraft stands Taxing guidance provided on R/T, Standard marking, mandatory Information and locations of TWYs and RWYs and all the intersections of TWY and RWY. Aerobridge facility and VGDS provided on Parking stands 8 & 9
2	Runway and taxiway markings and lights	RWY Markings: Designator, THR, TDZ, Aiming point, Centreline, Edge Lights: THR, EDGE and END, displaced THR. TWY Marking: Centreline, Holding Positions at all TWY/RWY intersections & Edge Lights Edge (Except TWY H)
3	Stop bars (if any)	NIL
4	Remarks	Illuminated signages provided for RWY, TWY, Apron & stand guidance. No marking for TWY H and General Aviation apron, “FOLLOW ME” Vehicle will be provided for General Aviation Apron.

VOML 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
24/TKOF 06/APCH	OTHER	125651.1N 0745234.8E	318 FT	NIL	Mobile Road Traffic
24/TKOF 06/APCH	OTHER	125656.7N 0745232.6E	322 FT	NIL	Mobile Road Traffic
24/TKOF 06/APCH	OTHER	125654.3N 0745234.1E	309 FT	LGTD	Approach Light
24/APCH 06/TKOF	TREE	125745.9N 0745353.2E	336 FT	NIL	Group of Trees
In circling area and at AD	TREE	125705.9N 0745242.2E	358 FT	NIL	Tree
In circling area and at AD	OTHER	125654.3N 0745240.6E	311 FT	NIL	Airport Boundary Wall With Fencing Top
In circling area and at AD	OTHER	125652.4N 0745237.5E	316 FT	NIL	Mobile Road Traffic
In circling area and at AD	OTHER	125655.7N 0745241.6E	327 FT	NIL	WDI
In circling area and at AD	OTHER	125703.0N 0745237.2E	321 FT	NIL	Hut
In circling area and at AD	OTHER	125735.3N 0745348.3E	309 FT	NIL	Mobile Road Traffic
In circling area and at AD	TREE	125734.2N 0745351.6E	348 FT	NIL	Group of Trees
In circling area and at AD	TREE	125728.6N 0745339.2E	364 FT	NIL	Group of Trees
In circling area and at AD	OTHER	125728.8N 0745336.7E	330 FT	LGTD	WDI
In circling area and at AD	POLE	125729.7N 0745339.5E	322 FT	NIL	Electric Pole
In circling area and at AD	ANTENNA	125735.3N 0745334.8E	357 FT	LGTD	G.P. Main Antenna
In circling area and at AD	ANTENNA	125736.7N 0745336.9E	327 FT	NIL	G.P. Monitor Antenna
In circling area and at AD	TREE	125729.7N 0745342.4E	364 FT	NIL	Group of Trees
In circling area and at AD	ANTENNA	125735.8N 0745330.2E	375 FT	NIL	ATC Tower Antenna Top
In circling area and at AD	OTHER	125739.5N 0745258.2E	335 FT	NIL	Mobile Road Traffic
In circling area and at AD	OTHER	125823.6N 0745549.3E	494 FT	NIL	OHWT
In circling area and at AD	TREE	125658.3N 0745556.4E	462 FT	NIL	Tree
In circling area and at AD	TREE	125745.2N 0745355.4E	329 FT	NIL	Tree
In circling area and at AD	OTHER	125739.8N 0745354.8E	303 FT	NIL	AAI Boundary Wall With Fencing Top
In circling area and at AD	OTHER	125740.9N 0745351.9E	298 FT	LGTD	Approach Light
In circling area and at AD	OTHER	125739.9N 0745350.2E	302 FT	LGTD	Approach Light
In circling area and at AD	OTHER	125738.8N 0745348.3E	305 FT	LGTD	Approach Light

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
In circling area and at AD	OTHER	125737.9N 0745346.9E	308 FT	LGTD	Approach Light
In circling area and at AD	OTHER	125748.0N 0745325.5E	378 FT	LGTD	Aerodrome Beacon
In circling area and at AD	TREE	125737.7N 0745315.9E	388 FT	NIL	Group of Trees
In circling area and at AD	ANTENNA	125747.7N 0745325.3E	394 FT	NIL	Highest Antenna On Towers (Old)
In circling area and at AD	OTHER	125746.2N 0745309.1E	330 FT	LGTD	LLZ Hut
In circling area and at AD	OTHER	125746.7N 0745317.1E	343 FT	NIL	Smoke Chamber
In circling area and at AD	TOWER	125747.7N 0745320.0E	357 FT	NIL	Fire Tower Old
In circling area and at AD	BUILDING	125747.2N 0745322.4E	360 FT	NIL	Terminal Building
In circling area and at AD	OTHER	125748.3N 0745328.1E	357 FT	NIL	Chimney (Power House)
In circling area and at AD	BUILDING	125747.8N 0745328.2E	352 FT	NIL	Building
In circling area and at AD	OTHER	125740.1N 0745327.8E	356 FT	NIL	WDI
In circling area and at AD	OTHER	125747.6N 0745331.1E	375 FT	NIL	Self Radiating Mast
In circling area and at AD	OTHER	125746.7N 0745331.0E	342 FT	NIL	NDB Hut
In circling area and at AD	POLE	125747.7N 0745331.7E	368 FT	LGTD	NDB Pole
In circling area and at AD	OTHER	125735.1N 0745334.3E	329 FT	LGTD	G.P. Hut Top
In circling area and at AD	ANTENNA	125735.4N 0745334.5E	331 FT	NIL	G.P. DME Antenna
In circling area and at AD	OTHER	125748.4N 0745338.4E	336 FT	NIL	NCC Hangar (Abandoned)
In circling area and at AD	BUILDING	125712.6N 0745311.4E	335 FT	NIL	Building (Madarsa)
In circling area and at AD	TREE	125722.8N 0745329.2E	386 FT	NIL	Group of Trees
In circling area and at AD	TREE	125727.1N 0745315.0E	378 FT	NIL	Group Of Trees
In circling area and at AD	OTHER	125702.0N 0745237.9E	307 FT	NIL	Ground Elevation
In circling area and at AD	OTHER	125702.3N 0745240.0E	311 FT	NIL	Ground Elevation
In circling area and at AD	POLE	125719.8N 0745324.0E	329 FT	NIL	Electric Pole
In circling area and at AD	OTHER	125739.3N 0745310.2E	340 FT	NIL	Hut
In circling area and at AD	OTHER	125723.5N 0745315.8E	316 FT	NIL	Hut
In circling area and at AD	TOWER	125732.5N 0745317.6E	399 FT	NIL	Fire Station Tower
In circling area and at AD	OTHER	125747.2N 0745323.9E	373 FT	NIL	Flood Light Mast

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
In circling area and at AD	OTHER	125747.5N 0745326.1E	375 FT	NIL	Flood Light Mast
In circling area and at AD	OTHER	125747.5N 0745327.9E	375 FT	NIL	Flood Light Mast
In circling area and at AD	TOWER	125525.0N 0745402.5E	574 FT	NIL	TV Tower
In circling area and at AD	OTHER	125904.0N 0745416.1E	499 FT	NIL	Cell Phone Mast
In circling area and at AD	OTHER	125536.5N 0745336.9E	499 FT	NIL	Cell Phone Mast

VOML AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Name of the associated meteorological office	MANGALORE
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	BENGALURU 9HR [00-09, 03-12, 06-15,09-18, 21-06]
4	Availability of the trend forecast for the aerodrome and interval of issuance	AVBL
5	Information on how briefing and/or consultation is provided	Verbal Briefing
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	Mangalore ATC and CNS
10	Additional information, e.g. concerning any limitation of service.	1.MET park has DCWIS, Manual RVR for RWY 06. 2.Transmissometer for RWY24 commissioned. INSTR RVR AVBL for RWY24.

VOML 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
06	58.38 DEG	2450 x 46 M	80/R/B/W/T	THR: 125656.79N 0745239.41E
24	238.38 DEG	2450 x 46 M	80/R/B/W/T	THR: 125736.53N 0745345.24E

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: 306.8FT TDZ: 306.8FT	0.00%	NIL	NIL	2570 x 150 M
THR: 308.1FT TDZ: 317.1FT	0.00%	NIL	NIL	2570 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
240M x 90M		NIL	0 to 1345M: 0%, 1345 to 1885M: +0.56%, 1885 to 2450M: -0.46%
244M x 90M		NIL	0 to 565M: 0.46%, 565 to 1105M:-0.56%, 1105 to 2450M: 0%

VOML 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
06	2450	2450	2450	2330	Rwy 06 Threshold displaced by 120 M
24	2450	2450	2450	2450	

VOML 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
06	SALS 420 M		PAPI /3.00 DEG MEHT (50.72FT)	
24	SALS 420 M		PAPI /3.00 DEG MEHT (50.26FT)	

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
	2450 M 60 M LIH	Red		Blue turning pad LGTS AVBL
	2450 M 60 M LIH	Red		Blue turning pad LGTS AVBL

VOML AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Location, characteristics and hours of operation of aerodrome beacon/identification beacon (if any)	ABN	At Old Terminal Building, FLG W&G EV 2SEC.
		IBN	NIL
2	Location and lighting (if any) of anemometer/ landing direction indicator;	LDI	in front of ATC TWR Lighted
		Anemometer	Located at MET park near TDZ RWY 24
3	Taxiway edge and taxiway centre line lights;	Edge	All TWY
		Centre Line	NIL
4	Secondary power supply including switch-over time;	Secondary Power supply to all lighting at AD. Secondary Power supply switchover time less than one sec for both Primary and Secondary circuits of RWY24/06 THR/Edge/End light, PAPI 24 and PAPI 06, SALS RWY24 and RWY06, TWY light C and D	
5	Remarks	DG power Supply for other circuits with Switch over of 15 sec	

VOML 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

VOML AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	CTR: Circular area centered on ARP VOML (125743N 0745323E) within a 25NM radius.
2	Vertical limits	5500 FT
3	Airspace classification	D
4	Call sign and language(s) of the air traffic services unit providing service;	Mangalore Tower , English
5	Transition altitude	9000 FT
6	Hours of applicability	HO
7	Remarks	NIL

VOML AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	**2**	**3**	**4**
APP	Mangalore Approach	122.100 MHZ	
TWR	Mangalore Tower	122.100 MHZ	
ATIS	Mangalore Information	126.250 MHZ	
RADAR	Mangalore Radar	127.550 MHZ	
RADAR	Mangalore Radar	128.700 MHZ	
SMC	---	121.600 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	**6**	**7**
	As ATS	NIL
	As ATS	Emergency Frequency121.5 MHz
	AS ATS	NIL
	As ATS	NIL
	As ATS	(Stand by freq.)
	As ATS	NIL

VOML 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 24	IMNG	110.100 MHz	As ATS
GP 24	IMNG	334.400 MHz	As ATS
DME ILS 24	IMNG	CH38X	As ATS
DVOR/DME	MML	114.200 MHz CH89X	H24
NDB	ML	357 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
125650.7N 0745229.4E			RWY 27 ILS completely withdrawn
125734.9N 0745335.0E			3 DEG
125734.9N 0745335.0E	331 FT		Collocated with GP
125740.6N 0745517.9E	385 FT		
125747.5N 0745331.0E			

VOML AD 2.20 LOCAL AERODROME REGULATIONS

1.New Apron is not visible from Tower. Pilots should exercise caution when manoeuvring on the Apron due to the proximity of other aircraft, ground staff and equipment. Engine power should be restricted to the minimum required, to reduce the adverse effect of jet blast.
2.Responsibility of guiding or manoeuvring aircraft in aircraft stand, Taxi lane serving apron rests with operator.
3.Entry into parking stands 5 to 10 will be through TWY 'E'
4.Stands 8, 9, 10 are Mars-Multiple Aircraft Ramp System-type and the pattern of Taxi lead in lines require nose wheel steering while taxi into stand.
5.Stands 5, 6, 7 are power-in/power-out stands.
6.Automatic Stand Guidance System not available for stands 5, 6, 7&10. Marshalling service will be provided by operator/ ground handling agency.
7.Non-standard parking not allowed. No aircraft shall be parked beyond clear lines.
8.Power out is not permitted from push-back stands, viz 8, 9 and 10.
9.Only Idle Power Engine run is permitted on parking stands agency. Exercise all necessary ground precautions.
10.Departing aircraft from Stands 8, 9, 10 will push-back facing East to taxi out via 'E'.
11.Simultaneous Push-back from adjacent Stands not permitted.
12.For Traffic planning requirements the estimated time for completion of pushback is 4 min and for engine start 2 min. Any delay shall be communicated to ATC.
13.Code D aircraft from stand 8 shall not push back beyond stop line near stand 7.
14.All aircraft proceeding to stands 5 to 10 to follow appropriate Stand lead-in lines from aircraft stand taxi lane.
15.Code D aircraft is not permitted on aircraft stand taxi lane west of stop line near Stand 7.
16.Code C or smaller aircraft taxi out from stands 5, 6, 7 shall turn left and follow lead-out line to join aircraft stand taxi lane behind stand 5 and thereafter TWY 'E'
17.Code C aircraft taxi out from stand 6 and 7 are required to taxi out with minimum power, and as far as practicable, without stopping up to abeam bay nr.7.

VOML AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VOML AD 2.22 FLIGHT PROCEDURES

NIL

VOML AD 2.23 ADDITIONAL INFORMATION

1.Four parking stands. Two B737s/A320s and two ATRs can be parked simultaneously or three parking stands for B737/EA32 at a time available.
2.TWY D links RWY 06/24 and RWY 09/27. VISUAL AIDS-TWY EDGE LGTS, TWY C/L EDGE and RHP markings TWY direction, location RWY Designation signs provided, SIGNAGES not illuminated.
3.TWY E: Angle of turn-90degreesRadius of exit curve -30M, Type of ACFT permitted-up to A300-600R, Marking and Lighting available.
4.New Apron: Location- North -West of RWY 06 beginning.
5.Ramp Equipment Area: 105X20M on west side of Apron.
6.Parking Stand characteristics

Aircraft Stand No	Coordinates	Largest Type	Remark
1	125746.2N 0745323.9E	Upto B738/A320	Power in/ power out Remote
2W	125746.3N 0745325.2E	Upto ATR72	Power in/ power out, Remote
2E	125746.4N 0745326.1E	Upto ATR72	Power in/ power out, Remote
2N	125746.2N 0745326.0E	Upto B738/A320	Power in/ power out, Remote
3	125746.3N 0745327.6E	Upto B738/A320	Power in/ power out, Remote
4W	125745.2N 0745325.6E	Upto ATR72	Power in/ power out, Remote
4E	125745.2N 0745326.4E	Upto ATR72	Power in/ power out, Remote
5	125657.83N 0745216.43E	ATR72-500/E175	Power in/ power out, Remote
6	125657.52N 0745217.67E	A320/B738	Power in/ power out, Remote
7	125657.30N 0745219.10E	A321-200	Power in/ power out, Remote
8	125658.48N 0745220.91E	A300, A300-600R	Aerobridge and VDGS avbl
9	125658.97N 0745222.84E	A300, A300-600R	Aerobridge and VDGS avbl
10	125659.92N 0745224.41E	A300, A300-600R	Power in/pushback Remote

7.WDI: Three
(i)Middle of RWY 27
(ii)Beginning of RWY 24
(iii)Beginning of RWY 06

8.Slope of RWY –SWY:

I.RWY09:
0 to 198M: 1.25% (-ve),
198 to 318M: 1.00% (+ve),
318 to 678M: 1.09% (+ve),
678 to 1578M: 1.50% (-ve),
1578M to 1625M: 1.25% (-ve)

II.RWY27:
0 to 47M: 1.25% (+ve),
47 to 947M: 1.50% (+ve),
947 to 1307M: 1.09% (-ve),
1307 to 1427M: 1.00% (-ve),
1427 to 1625M: 1.25% (-ve)

9.RESA 90X92M includes the existing paved area. Existing turnpad will continue to be used for Taxi.
10.Bird activity in the vicinity of aerodrome. Pilots to exercise caution.
11.Fixed distance markers (DTGM) for RWY 24 and RWY 06 available. Distance to go marking provided only on left side of RWY.
12.Pilots to identify RWY in use 24/06 positively before landing due to adjacent short runway.
13.Remote controlled A/G FAC FREQ 127.55MHZ (Main) and 128.7MHZ (SDBY) VOML-VOHB is commissioned and AVBL for OPS.
14.ADS-B FREQ 1090 MHZ comissioned
LAT: 12DEG 57MIN 32.7SEC N
LONG: 74DEG 53MIN 15.2SEC E

VOML AD 2.24 CHARTS RELATED TO AN AERODROME

1.Aerodrome Obstacle Chart Type – A (Operating Limitations) RWY 09/27
2.Aerodrome Obstacle Chart Type – A (Operating Limitations) RWY 06/24
3.ILS (Z) Procedure RWY 24

4.ILS (Y) Procedure RWY 24
5.VOR Procedure RWY 06
6.ATC Surveillance Minimum Altitude Chart

AERODROME OBSTACLE CHART

TYPE –A (OPERATING LIMITATIONS)

INDIA/MANGALORE

MANGALORE AIRPORT/RWY 09/27

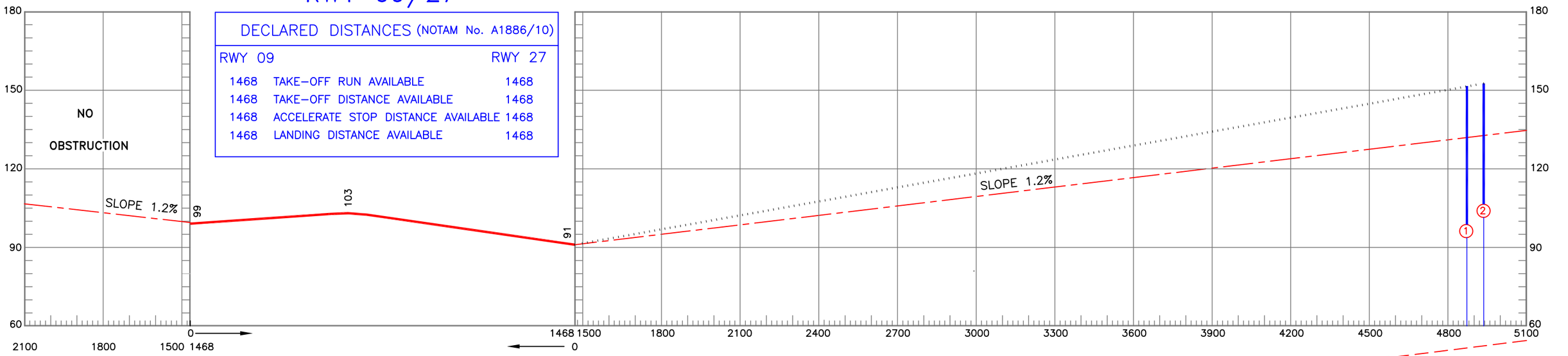
DIMENSIONS AND ELEVATIONS IN METRES

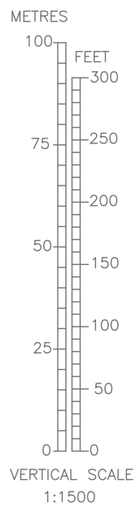
CONSULT NOTAM FOR LATEST INFORMATION

MAGNETIC VARIATION 2° W (1995)

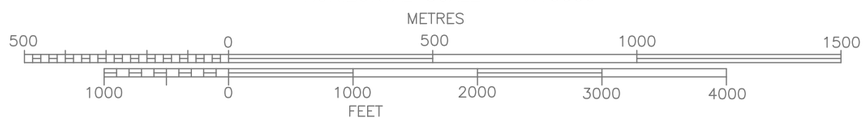
RWY 09/27

DECLARED DISTANCES (NOTAM No. A1886/10)		
RWY 09		RWY 27
1468	TAKE–OFF RUN AVAILABLE	1468
1468	TAKE–OFF DISTANCE AVAILABLE	1468
1468	ACCELERATE STOP DISTANCE AVAILABLE	1468
1468	LANDING DISTANCE AVAILABLE	1468





HORIZONTAL SCALE – 1:15000



L E G E N D

IDENTIFICATION NUMBER	①
ROAD	
BUILDDING OR LARGE STRUCTURE	
POLE,TOWER,SPIRE,ANTENNA ETC...	⊙
RWY ELEV.(SPOT)	▪103
HIGH TENSION LINE	

ORDER OF ACCURACY	
HORIZONTAL	– 1.0m
VERTICAL	– 0.5m

NOTES:–

1. The objects that have been shielded due to presence of other higher objects have not been shown in this chart.
2. Obstructions in the form of trees which are being cut or pruned have not been taken into consideration for establishing threshold displacement.
3. Periphery roads without traffic are not obstacles.
4. Datum – All Elevations are AMSL.
5. Considering App. lights as frangible.These are not shown in the chart.
6. No significant obstacles lying upto 10km. in Approach of Rwy 09.
7. All obstacles shown in this chart are based on aeronautical obstacle Survey Sept.2010

AMENDMENT RECORD

NO.	DATE	ENTERED BY
1.	04–04–12	Tree pruned as/ Airport Dir. ltr. no.AAI/MI/ ATS/OPS–1A/2012,dtd.29.03.12. R.S.
2.	17–05–12	Tree pruned in App. of Rwy27 as per APD, E–Mail dtd.04–05–2012. R.S.

AERONAUTICAL INFORMATION UPTO – SEPT.2010
वैमानिक सूचना . सितंबर 2010 तक

COMPILED BY– CARTOGRAPHY UNIT, AIRPORTS AUTHORITY OF INDIA
संग्रहित किया : कार्टोग्राफी यूनिट, भारतीय विमानपत्तन प्राधिकरण

CHART No. AAI/08–OBS/CARTO/2012
चार्ट सं. भा.वि.प्रा./08–अव./कार्टो/2012

AERODROME OBSTACLE CHART

TYPE –A (OPERATING LIMITATIONS)

INDIA/MANGALORE

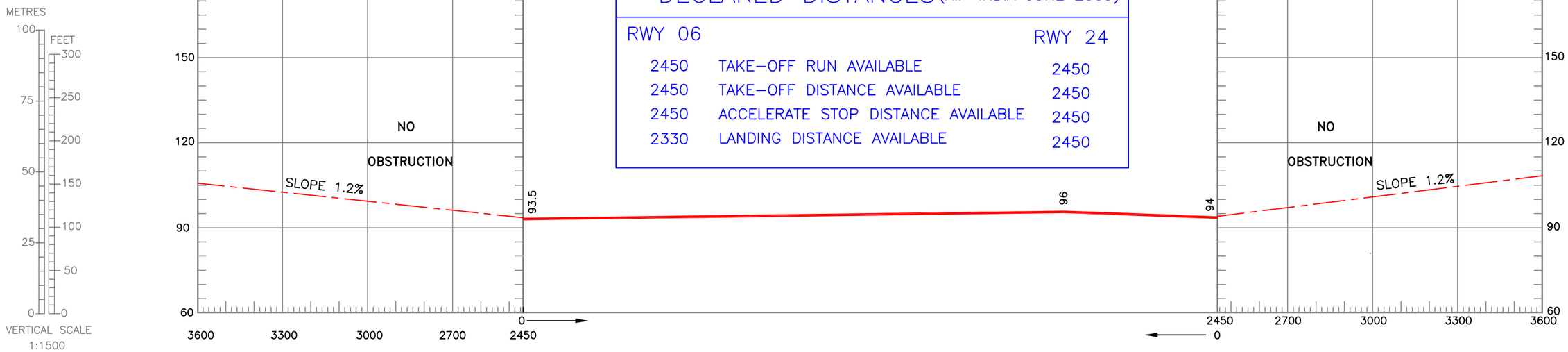
MANGALORE AIRPORT/RWY 06/24

DIMENSIONS AND ELEVATIONS IN METRES

CONSULT NOTAM FOR LATEST INFORMATION

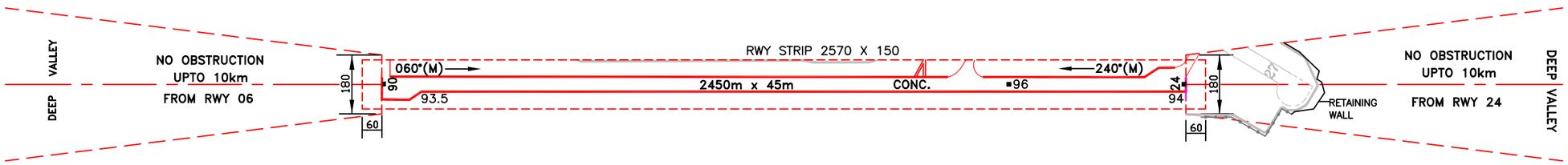
MAGNETIC VARIATION 2° W (1995)

RWY 06/24

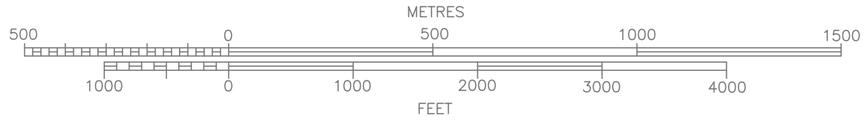


DECLARED DISTANCES (AIP INDIA JUNE 2009)

RWY 06		RWY 24
2450	TAKE–OFF RUN AVAILABLE	2450
2450	TAKE–OFF DISTANCE AVAILABLE	2450
2450	ACCELERATE STOP DISTANCE AVAILABLE	2450
2330	LANDING DISTANCE AVAILABLE	2450



HORIZONTAL SCALE – 1:15000



LEGEND

RWY ELEV.(SPOT)	▪96
ROAD	

ORDER OF ACCURACY

HORIZONTAL	– 1.0m
VERTICAL	– 0.5m

NOTES:–

1. Obstructions in the form of trees which are being cut or pruned have not been taken into consideration for establishing threshold displacement.
2. Periphery roads without traffic are not obstacles.
3. Datum – All Elevations are AMSL.
4. Considering App. lights as frangible.These are not shown in the chart.
5. No significant obstacles lying upto 10km. in Approach of Rwy 06/24.
6. All obstacles shown in this chart are based on aeronautical obstacle Survey Sept.2010

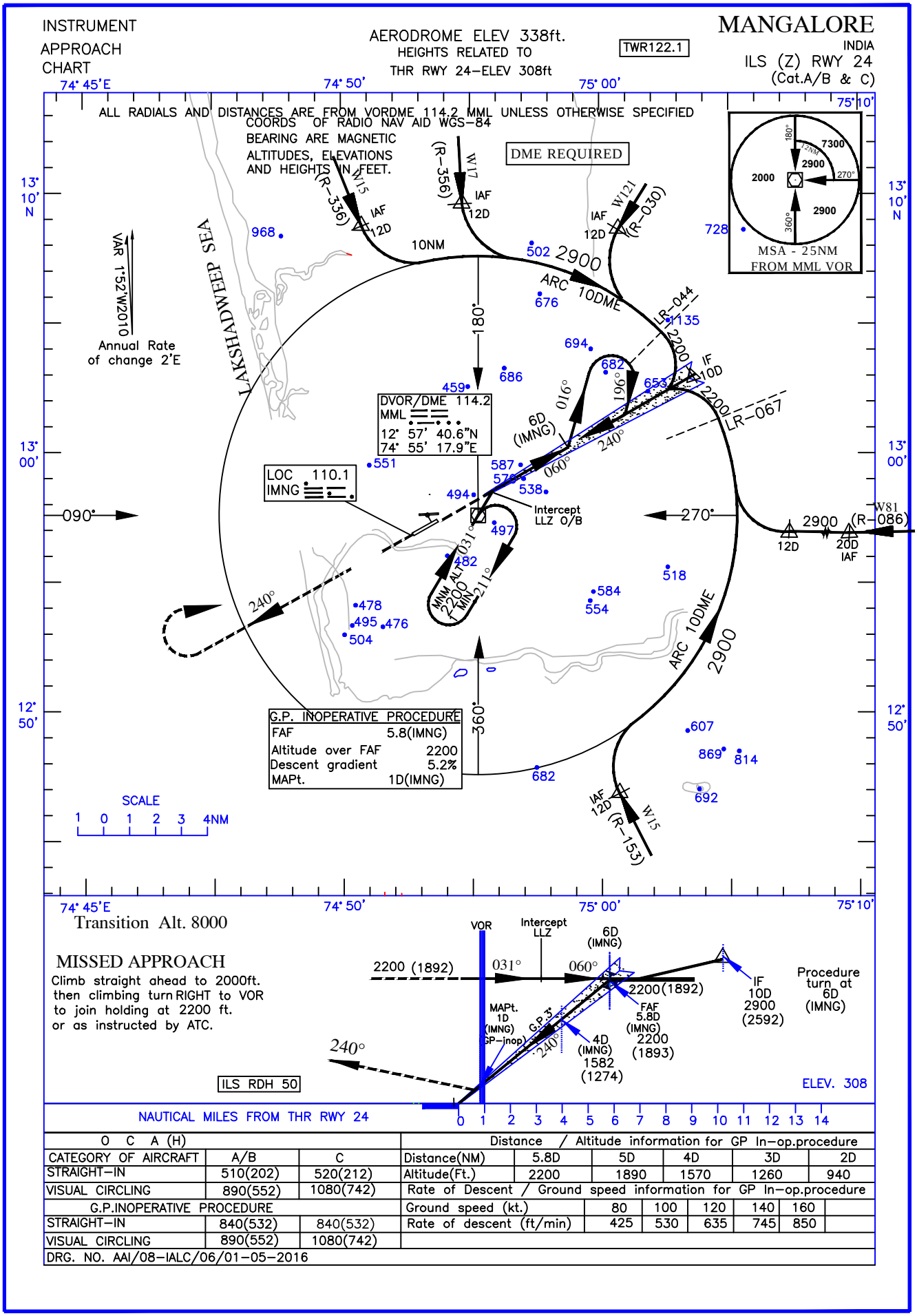
AMENDMENT RECORD

NO.	DATE	ENTERED BY
1.	04–04–12	Tree pruned & cell phone mast removed in App. of Rwy24 as/Airport Dir. Mangalore ltr. no.AAI/MI/ATS/OPS–1A/2012,dtd.29.03.12. R.S.
2.	04–05–12	Tree pruned in App. of Rwy24 as per APD, E–Mail dtd.04–05–2012. R.S.

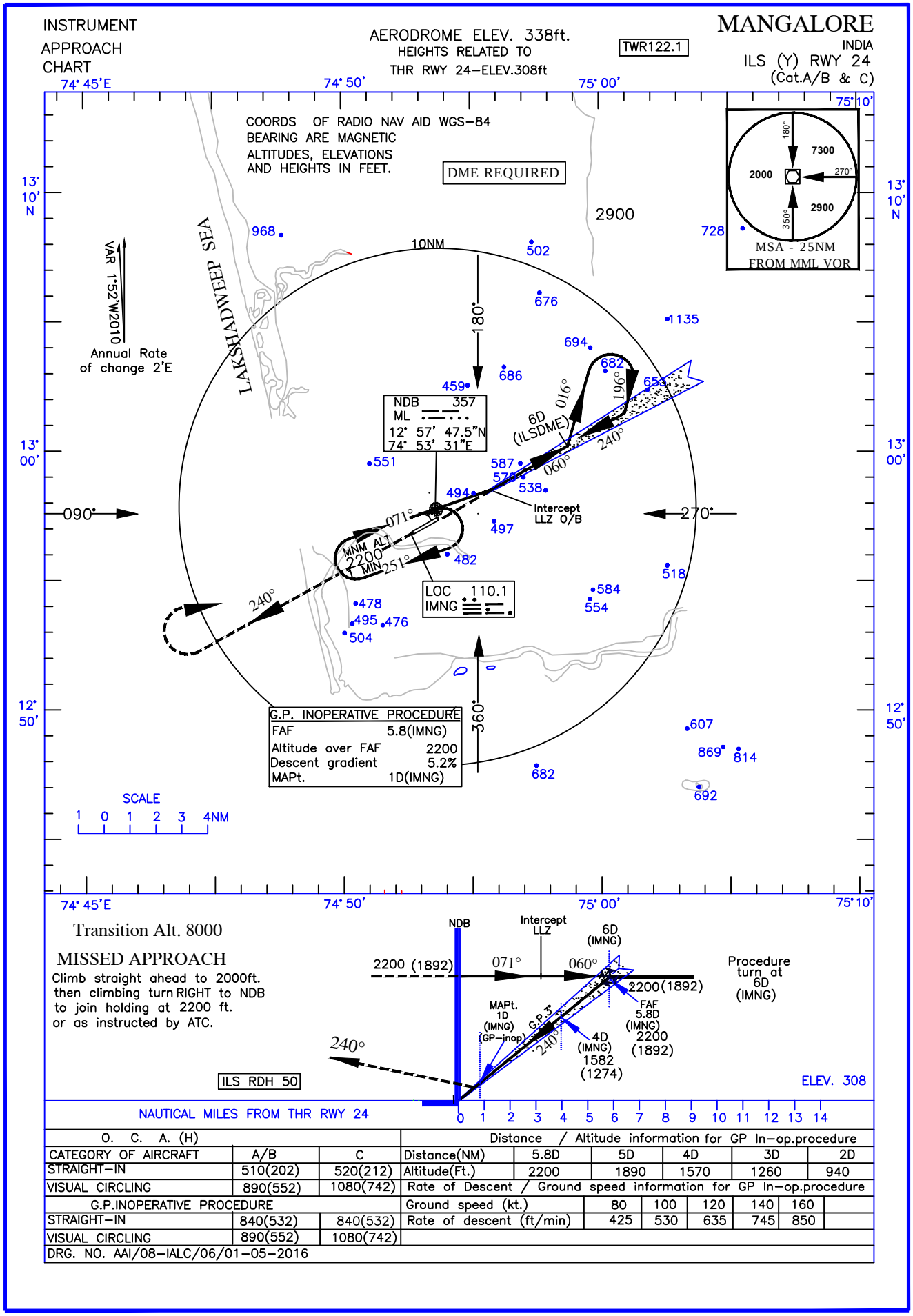
AERONAUTICAL INFORMATION UPTO – SEPT.2010
वैमानिक सूचना . सितंबर 2010 तक

COMPILED BY– CARTOGRAPHY UNIT, AIRPORTS AUTHORITY OF INDIA
संग्रहित किया : कार्टोग्राफी यूनिट, भारतीय विमानपत्तन प्राधिकरण

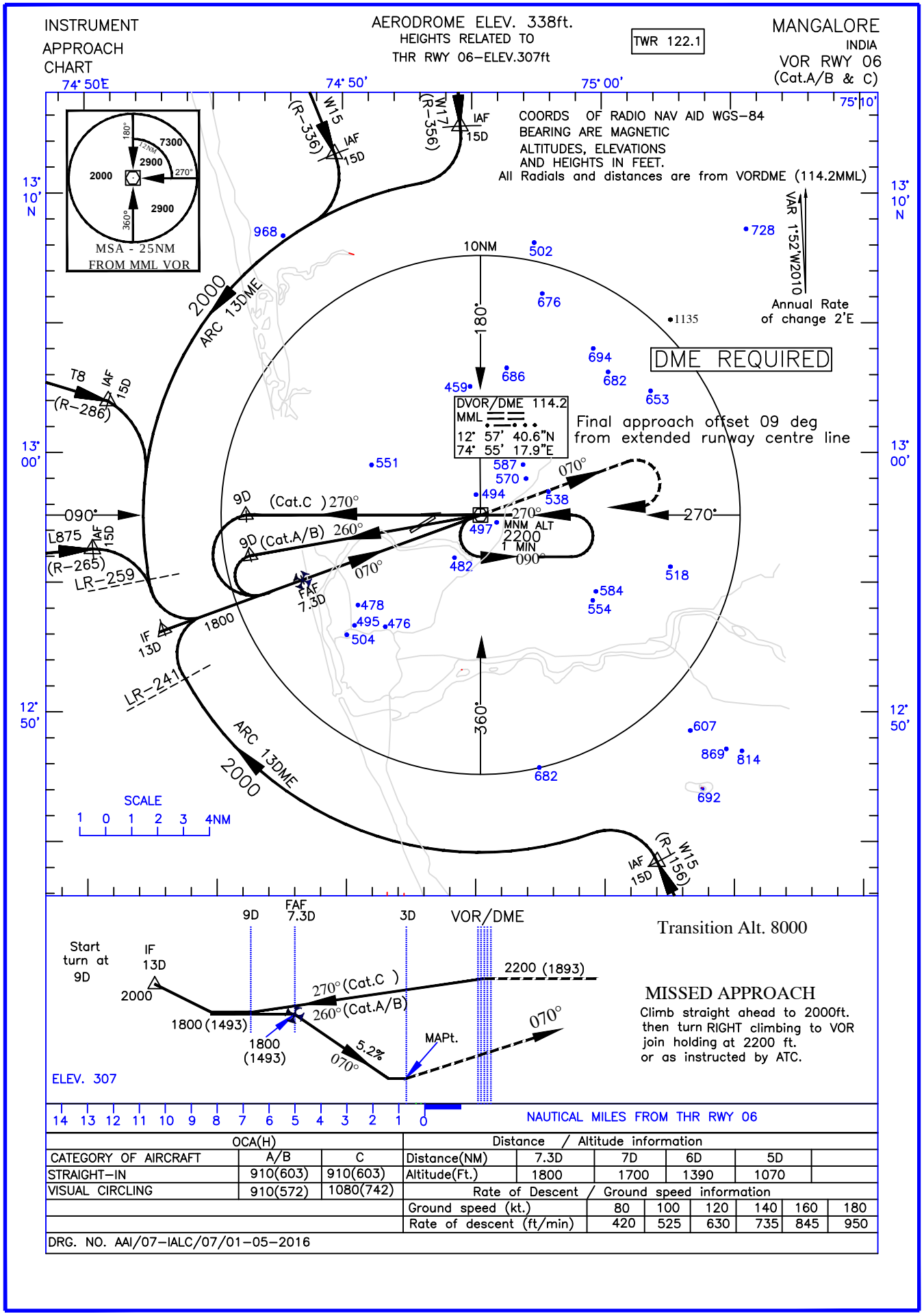
CHART No. AAI/09–OBS/CARTO/2012
चार्ट सं. भा.वि.प्रा./09–अव./कार्टो/2012



O C A (H)			Distance / Altitude information for GP In–op.procedure						
CATEGORY OF AIRCRAFT	A/B	C	Distance(NM)	5.8D	5D	4D	3D	2D	
STRAIGHT–IN	510(202)	520(212)	Altitude(Ft.)	2200	1890	1570	1260	940	
VISUAL CIRCLING	890(552)	1080(742)	Rate of Descent / Ground speed information for GP In–op.procedure						
G.P.INOPERATIVE PROCEDURE			Ground speed (kt.)	80	100	120	140	160	
STRAIGHT–IN	840(532)	840(532)	Rate of descent (ft/min)	425	530	635	745	850	
VISUAL CIRCLING	890(552)	1080(742)							
DRG. NO. AAI/08–IALC/06/01–05–2016									



O. C. A. (H)			Distance / Altitude information for GP In–op.procedure						
CATEGORY OF AIRCRAFT	A/B	C	Distance(NM)	5.8D	5D	4D	3D	2D	
STRAIGHT–IN	510(202)	520(212)	Altitude(Ft.)	2200	1890	1570	1260	940	
VISUAL CIRCLING	890(552)	1080(742)	Rate of Descent / Ground speed information for GP In–op.procedure						
G.P.INOPERATIVE PROCEDURE			Ground speed (kt.)	80	100	120	140	160	
STRAIGHT–IN	840(532)	840(532)	Rate of descent (ft/min)	425	530	635	745	850	
VISUAL CIRCLING	890(552)	1080(742)							
DRG. NO. AAI/08–IALC/06/01–05–2016									



OCA(H)		
CATEGORY OF AIRCRAFT	A/B	C
STRAIGHT–IN	910(603)	910(603)
VISUAL CIRCLING	910(572)	1080(742)

Distance / Altitude information					
Distance(NM)	7.3D	7D	6D	5D	
Altitude(Ft.)	1800	1700	1390	1070	

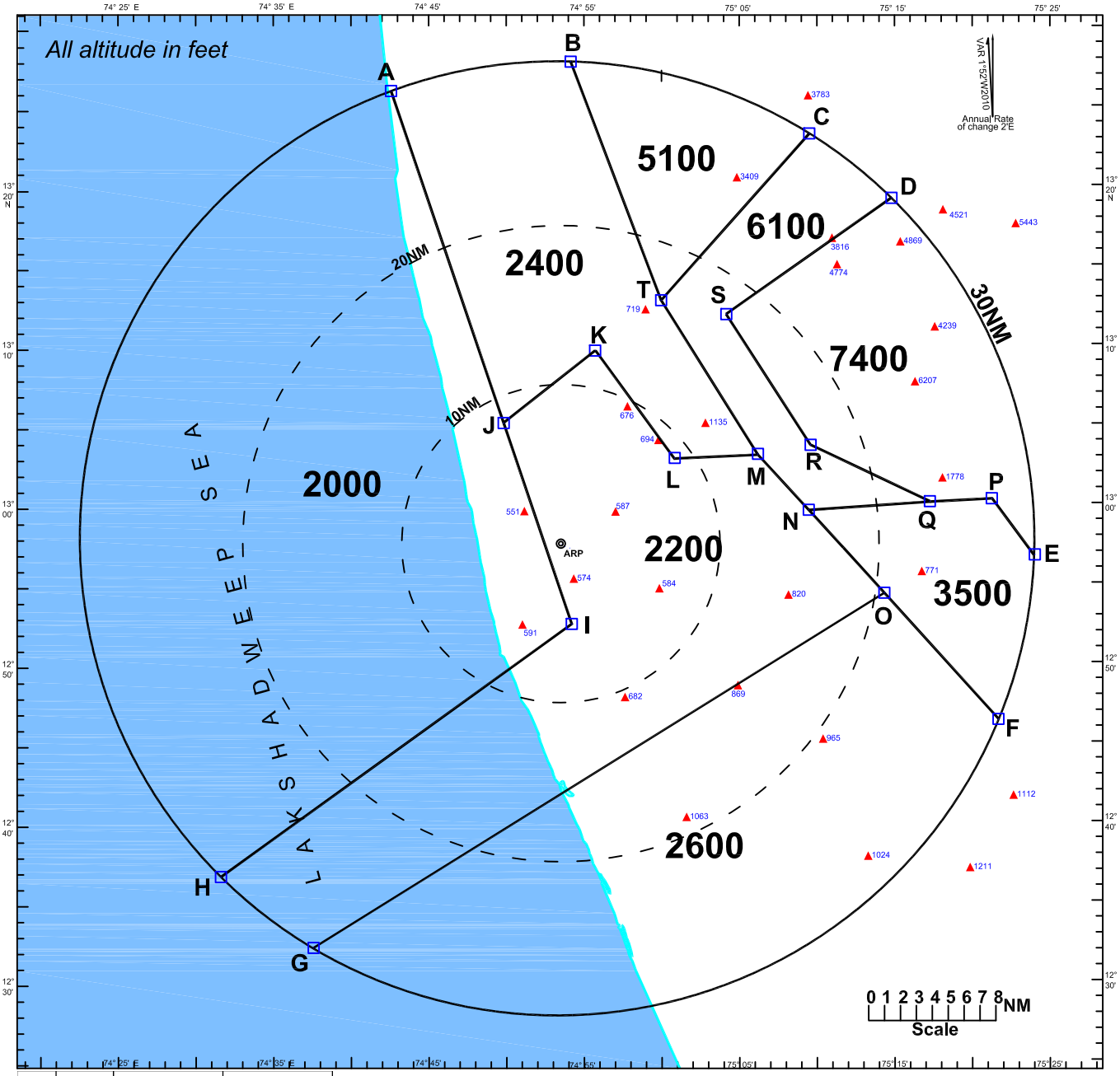
Rate of Descent / Ground speed information						
Ground speed (kt.)	80	100	120	140	160	180
Rate of descent (ft/min)	420	525	630	735	845	950

DRG. NO. AAI/07–IALC/07/01–05–2016

Ad. Elev-338
Transition Alt.- 8000
Mag. Var. - 1°52' W (2010)

APP. 122.1
TWR. 122.1

MANGALORE (VOML)
ATC Surveillance
Minimum Altitude Chart



S.No	Point	Latitude	Longitude
1	A	132555.6N	0744233.8E
2	B	132750.8N	0745403.8E
3	C	132325.8N	0750925.6E
4	D	131924.8N	0751443.8E
5	E	125654.9N	0752405.9E
6	F	124624.0N	0752150.9E
7	G	123210.8N	0743706.1E
8	H	123638.3N	0743127.2E
9	I	125242.4N	0745405.5E
10	J	130517.7N	0744943.3E
11	K	130949.4N	0745539.6E
12	L	130259.1N	0750044.5E
13	M	130323.4N	0750603.5E
14	N	125952.1N	0750917.8E
15	O	125435.3N	0751409.1E
16	P	130033.5N	0752106.1E
17	Q	130018.8N	0751707.7E
18	R	130349.7N	0750929.5E
19	S	131206.4N	0750409.7E
20	T	131258.2N	0745947.6E

Radio Communication Failure Procedure:
When providing navigational guidance to aircraft based on the use of ATS Surveillance system for pilot interpreted final approach aid, following radio communication failure procedure shall be applicable-

1. If radio communication failure takes place prior to interception of final approach track, aircraft shall maintain the last assigned altitude or 2200Ft whichever is higher and proceed to MML VOR via shortest route to join the holding procedure.
2. If radio communication failure occurs after interception of the final approach track, aircraft should continue the approach and land if visual or carryout the missed approach and join the MML VOR holding at 2200Ft. After joining the holding procedure aircraft shall carryout the instrument approach procedure for which radar vectoring was provided.

NOTE:
1. Altitudes shown are based on QNH.
2. Only signficant spot elevations are shown.
3. ATC Surveillance Minimum Altitudes are established within 30NM of Mangalore ARP (125743N 0745323E).
4. Chart may only be used for cross-checking of altitude assigned while the aircraft is identified and is being provided navigational guidance using ATS Surveillance system.

1-5-2017