AD 2. AERODROMES

VANP AD 2.1 AERODROME LOCATION INDICATOR AND NAME

VANP - DR BABA SAHEB AMBEDKAR INTERNATIONAL , NAGPUR / INTL

VANP AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	Aerodrome reference point coordinates and its site	210531N 0790254E 129 DEG/118M from intersection of RWY	
2	Direction and distance of aerodrome reference point from the center of the city or town which the aerodrome serves	214 DEG, 08KM from Nagpur	
3	Aerodrome elevation and reference temperature	1033 FT / 43.0 DEG C	
4	Magnetic variation, date of information and annual change	0.35 DEG W (2010) /0.017 DEG E	
5	Name of aerodrome operator, address, telephone, telefax, e-mail address, AFS address, website (if available)	CEO, MIPL Old Terminal Building, Dr Baba Saheb Ambedkar International Airport, Nagpur-440005,	
		Telephone:	+91-712-2295983 +91-712-2295981
		Fax:	+91-712-2283224
		AFS:	VANPYHYX
		Email:	goc@miplnagpur.com
6	Types of traffic permitted (IFR/VFR)	IFR/VFR	
7	Remarks	NIL	

VANP AD 2.3 OPERATIONAL HOURS

1	Aerodrome Operator	MON-FRI: 0400-1230 (0930-1800 IST) SAT: 2nd & 4th, SUN+HOL: NIL
2	Custom and immigration	AS ATS
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	H24
8	Fuelling	As ATS
9	Handling	As ATS
10	Security	As ATS
11	De-icing	NIL
12	Remarks	The ATS approved hourly RWY traffic handling capacity is as follows: Maximum number of arrivals and departures - 12 (The average spacing between two successive arrivals is normally 7 minutes) Maximum number of arrivals only - 9 Maximum number of departures only - 20 No Surveillance Based approach available at Nagpur Airport.

VANP AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	NIL
2	Fuel and Oil types	JET A1 ATF K50, AVGAS 100 OIL: Nil

3	Fuelling facilities and capacity	JET A1-STORAGE 560000LTRS. and 3 BOWSERS 16000, 11000, 9000 LTRS/SEC. AVGAS- 100LL, BOWSER 9000LTRS,9LTRS/SEC
4	De-icing facilities	NIL
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	NIL

VANP AD 2.5 PASSENGER FACILITIES

1	Hotel(s) at or in the vicinity of aerodrome	Near the AD and in the city
2	Restaurant(s) at or in the vicinity of aerodrome	At the AD and in the city
3	Transportation possibilities	Buses and taxis.
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. Open 0430-0930 UTC (1000-1500 IST). From Mon-Sat except on holidays. Post office: at AD. Open 0400-1200 UTC (0930-1730 IST) From Mon-Sat except on holidays
6	Tourist office	In the city.
7	Remarks	NIL

VANP AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	Aerodrome category for fire fighting	Within ATS HR: CAT-8
2	Rescue equipment	3 Ambulance
3	Capability for removal of disabled aircraft	NIL
4	Remarks	Critical Acft -A310(Code D)

VANP AD 2.7 SEASONAL AVAILABILITY CLEARING

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

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

1	Designation, surface and strength of aprons	Designator: APRON R Surface: Concrete Strength: PCN 85/R/B/W/T Designator: APRON T ((stand 1 to 7) Surface: Asphalt Strength: PCN 105/F/A/W/T Designator: APRON T ((stand 8 to 12) Surface: Concrete Strength: PCN 85/R/B/W/T

<table>
<tr><td>2</td><td>Designation, width, surface and strength of taxiways</td><td>Designator: A
Width: 23 M
Surface: Asphalt
Strength: PCN 67/F/A/W/T

Designator: B1
Width: 23 M
Surface: Asphalt
Strength: PCN 107/F/A/W/T

Designator: B2
Width: 23 M
Surface: Asphalt
Strength: PCN 107/F/A/W/T

Designator: C1
Width: 23 M
Surface: Asphalt
Strength: PCN 75/F/B/W/T

Designator: C2
Width: 25 M
Surface: Concrete
Strength: PCN 105/R/B/W/T

Designator: E
Width: 41 M
Surface: Concrete
Strength: PCN 40/F/B/W/T

Designator: F
Width: 15 M
Surface: Concrete
Strength: PCN 40/F/B/W/T</td></tr>
<tr><td>3</td><td>Location and elevation of altimeter checkpoints</td><td>Location At apron T. Elevation 1004 FT</td></tr>
<tr><td>4</td><td>Location of VOR checkpoints</td><td>At Holding Point TWY A.</td></tr>
<tr><td>5</td><td>Position of INS checkpoints</td><td>NIL</td></tr>
<tr><td>6</td><td>Remarks</td><td>1.B-747 to be parked east end of TWY-B1 (PCN-103/F/A/W/T)
2.Isolation bay -East end of TWY-B1(facing east).
3.Secondary Isolation Bay-on TWY B1, abeam wind sock (facing east).
4.All the Bays are Power-in/Push-back.
5.Bay No. 3 to 12 and 14 to 18 remote Stands.
6.Details of TWYs
<table>
<tr><td>TWY</td><td>Location</td><td>Lenght</td><td>Shoulder</td><td>Aircraft Suitability</td></tr>
<tr><td>C1</td><td>883.50M from Threshold Runway 32</td><td>1890 M</td><td>10.5M</td><td>CODE E</td></tr>
<tr><td>C2</td><td>From MRO to C1 End</td><td>1350 M</td><td>10.5M</td><td>CODE E</td></tr>
</table>
7.Three Intermediate Holding Positions are provided on Taxiway C1 after crossing F Intersection.
8.Intermediate Holding Position is provided on Taxiway C2 at a location just before C1.</td></tr>
</table>

VANP 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, Aiming Point Lights THR, End, Edge TWY Marking Holding positions on TWY A, B1, B2. Centreline all TWY Lights Edge LGT on TWY A, B1, B2, C1, C2.
3	Stop bars (if any)	NIL
4	Remarks	Edge LGTS on TWY C1 and C2 placed at 60 M.

VANP 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
32/TKOF 14/APCH	TREE	210642.1N 0790146.0E	1076 FT	NIL	TREE
32/TKOF 14/APCH	TREE	210642.0N 0790158.2E	1067 FT	NIL	TREE
32/TKOF 14/APCH	OTHER	210640.2N 0790159.0E	1045 FT	NIL	POWER HOUSE
32/TKOF 14/APCH	TREE	210646.5N 0790154.5E	1065 FT	NIL	GP OF TREES
32/TKOF 14/APCH	OTHER	210656.8N 0790153.4E	1084 FT	NIL	ELECT. POLE
32/TKOF 14/APCH	OTHER	210655.5N 0790151.0E	1081 FT	NIL	ELECT. POLE
32/TKOF 14/APCH	TREE	210651.9N 0790144.1E	1086 FT	NIL	TREE
32/TKOF 14/APCH	TREE	210654.1N 0790146.8E	1087 FT	NIL	NIL
32/APCH 14/TKOF	OTHER	210505.8N 0790312.3E	1019 FT	NIL	BUSHES
32/APCH 14/TKOF	OTHER	210510.6N 0790611.0E	1020 FT	NIL	BUSHES
32/APCH 14/TKOF	OTHER	210507.2N 0790306.7E	1022 FT	NIL	BUSHES
32/APCH 14/TKOF	OTHER	210510.8N 0790314.4E	1023 FT	NIL	WDI
32/TKOF 14/APCH	TREE	210639.1N 0790200.9E	1055 FT	NIL	TREE
32/TKOF 14/APCH	TREE	210647.2N 0790158.3E	1084 FT	NIL	TREE
32/TKOF 14/APCH	TREE	210643.3N 0790154.0E	1056 FT	NIL	TREE

VANP AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Name of the associated meteorological office	Nagpur
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	Nagpur 9 and 24 HR
4	Availability of the trend forecast for the aerodrome and interval of issuance	Trend 30 MIN
5	Information on how briefing and/or consultation is provided	Provided
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	S, U85, U70, U50, U30, U20
8	Supplementary equipment available for providing information on meteorological conditions, e.g. weather radar and receiver for satellite images;	Telex, Telefax, Satellite Display Work Station.
9	The air traffic services unit(s) provided with meteorological information	VANP Nagpur ATC and ACS
10	Additional information, e.g. concerning any limitation of service.	WX radar observation on hourly basis if echoes are present at synoptic timings.

VANP 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
14	143.52 DEG	3200 x 45 M	79/F/A/W/T Composition: Composite.	THR: 210631.70N 0790203.40E
32	323.52 DEG	3200 x 45 M	79/F/A/W/T Composition: Composite.	THR: 210509.60N 0790308.50E

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: 1033.0FT TDZ:	-0.24%	NIL	NIL	3322 x 150 M
THR: 1007.0FT TDZ:	0.24%	NIL	NIL	3322 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
90M x 90M	N/A	---	PCN: From beginning of RWY 32 upto 5400FT PCN 79/F/A/W/T and in rest of the portion of RWY PCN 89/F/B/W/T
240M x 90M	N/A	---	PCN:From beginning of RWY 32 upto 5400FT PCN 79/F/A/W/T and in rest of the portion of RWY PCN 89/F/B/W/T

VANP 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
14	3200	3200	3200	3200	Slope 1:40
32	3200	3200	3200	3200	Slope 1:50

VANP 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
14	SALS 420 M LIH	Green	PAPI LEFT/3.00 DEG MEHT (46.00FT)	
32	CAT I 900 M LIH	Green	PAPI LEFT/3.00 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
	3200 M 60 M White LIH	Red		NIL
	3200 M 60 M White LIH	Red		NIL

VANP 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. At Tower Building, FLG W&G EV2SEC.
		IBN	Nil
2	Location and lighting (if any) of anemometer/ landing direction indicator;	LDI	250M ESE of ARP,LIGHTED
		Anemometer	On MET building
3	Taxiway edge and taxiway centre line lights;	Edge	AVBL on TWY A, B1, B2, C1 & C2
		Centre Line	NIL
4	Secondary power supply including switch-over time;	Secondary Power supply to all lighting at AD. Switch-over time: 15 SEC.	
5	Remarks	NIL	

VANP 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

VANP AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	CTR: Circular area centered on ARP VANP (210531N 0790254E) within a 25NM radius.
2	Vertical limits	FL 55
3	Airspace classification	D
4	Call sign and language(s) of the air traffic services unit providing service;	Nagpur Tower, English
5	Transition altitude	5000 FT
6	Hours of applicability	H24
7	Remarks	NIL

VANP AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available	Logon address, as appropriate	Hours of operation	Remarks
1	2	3	4	5	6	7
OTHER	Nagpur Control Nagpur Radar	123.900 MHZ			H24	1. 123.900 MHz: Sector North 2. 133.650 MHz: Sector South 3. 132.300 MHz: Standby frequency
OTHER	Nagpur Control Nagpur Radar	132.300 MHZ			H24	1. 123.900 MHz: Sector North 2. 133.650 MHz: Sector South 3. 132.300 MHz: Standby frequency
OTHER	Nagpur Control Nagpur Radar	133.650 MHZ			H24	1. 123.900 MHz: Sector North 2. 133.650 MHz: Sector South 3. 132.300 MHz: Standby frequency
APP	Nagpur Approach	120.400 MHZ			H24	1. APP combined with Tower during 0701-1029 UTC and 1631-0059 UTC. 2. 121.900 MHz: Standby frequency
APP	Nagpur Approach	121.900 MHZ			H24	1. APP combined with Tower during 0701-1029 UTC and 1631-0059 UTC. 2. 121.900 MHz: Standby frequency
TWR	Nagpur Tower	118.100 MHZ			H24	1. 121.900 MHz: Standby frequency
TWR	Nagpur Tower	121.900 MHZ			H24	1. 121.900 MHz: Standby frequency
ATIS	---	126.600 MHZ			H24	NIL
ALRS	Emergency Frequency	121.500 MHZ			H24	NIL
SMC	Nagpur Ground	121.900 MHZ			H24	1. SMC combined with Tower

VANP 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 32	INGR	110.300 MHz	H24

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;
GP 32	INGR	335.000 MHz	H24
DME ILS 32	INGR	CH40X	H24
MKR	NG	75.000 MHz	H24
DVOR/DME	NNP	112.700 MHz CH74X	H24
L	NG	217.000 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**
210641.8N 0790155.5E			
210515.0N 0790258.8E			3 DEG
210515.0N 0790258.8E	1023 FT		Collocated with GP32
210205.7N 0790532.8E			
210452.7N 0790321.8E	1025 FT		
210205.7N 0790532.8E			

VANP AD 2.20 LOCAL AERODROME REGULATIONS

NIL

VANP AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VANP AD 2.22 FLIGHT PROCEDURES

NIL

VANP AD 2.23 ADDITIONAL INFORMATION

1.BLOW KNOX CPME antenna mast erected at middle marker coordinates 210440.70N 0790331.80E Day and night marking provided as per standards.
Lower limit: GND.
Upper limit: 25M AGL.

2. RCAG Frequency 123.900 MHz, VANP/VABP Sector (ACC-N) AVBL.

3. Daily BTN 0050-1730 UTC Nagpur control area, within the existing vertical and lateral limits, has been bifurcated as ACC North and ACC South. Area of jurisdiction and operational frequencies as follows:
ACC North: BTN radial 270 to 115 NNP clockwise. Freq: 123.900 MHz
ACC South: BTN radial 115 to 270 NNP clockwise. Freq: 133.650 MHz
Operational hours: 0050 to 1730 UTC daily, beyond these timings sectors will be combined and operate on frequency 123.900 MHz.

4. ADS-B GND REC FAC commissioned at VANP REC FREQ 1090 MHZ. The COORD are as FLW: - 210524N 0790335E ALT: 1093 FT

5. H24 PRKG stand for B777 of Air India AVBL at stand 17 with revised aircraft stand markings. CL in broken yellow lines, pushback guidance line in broken white lines and aircraft stand safety markings in broken red lines.

6. Indra Aircon2100 System Commissioned.

VANP AD 2.24 CHARTS RELATED TO AN AERODROME

1.Aerodrome Chart

2.Aerodrome Chart TWY C1 & C2

3.Aircraft Parking/Docking Chart - Apron T

4.Aircraft Parking/Docking Chart - Apron R

5.Aerodrome Obstacle Chart Type – A (Obstacle Limitations) RWY 14

6.Aerodrome Obstacle Chart Type – A (Obstacle Limitations) RWY 32

7.ILS (Z) Procedure RWY 32

8.ILS (Y) Procedure RWY 32

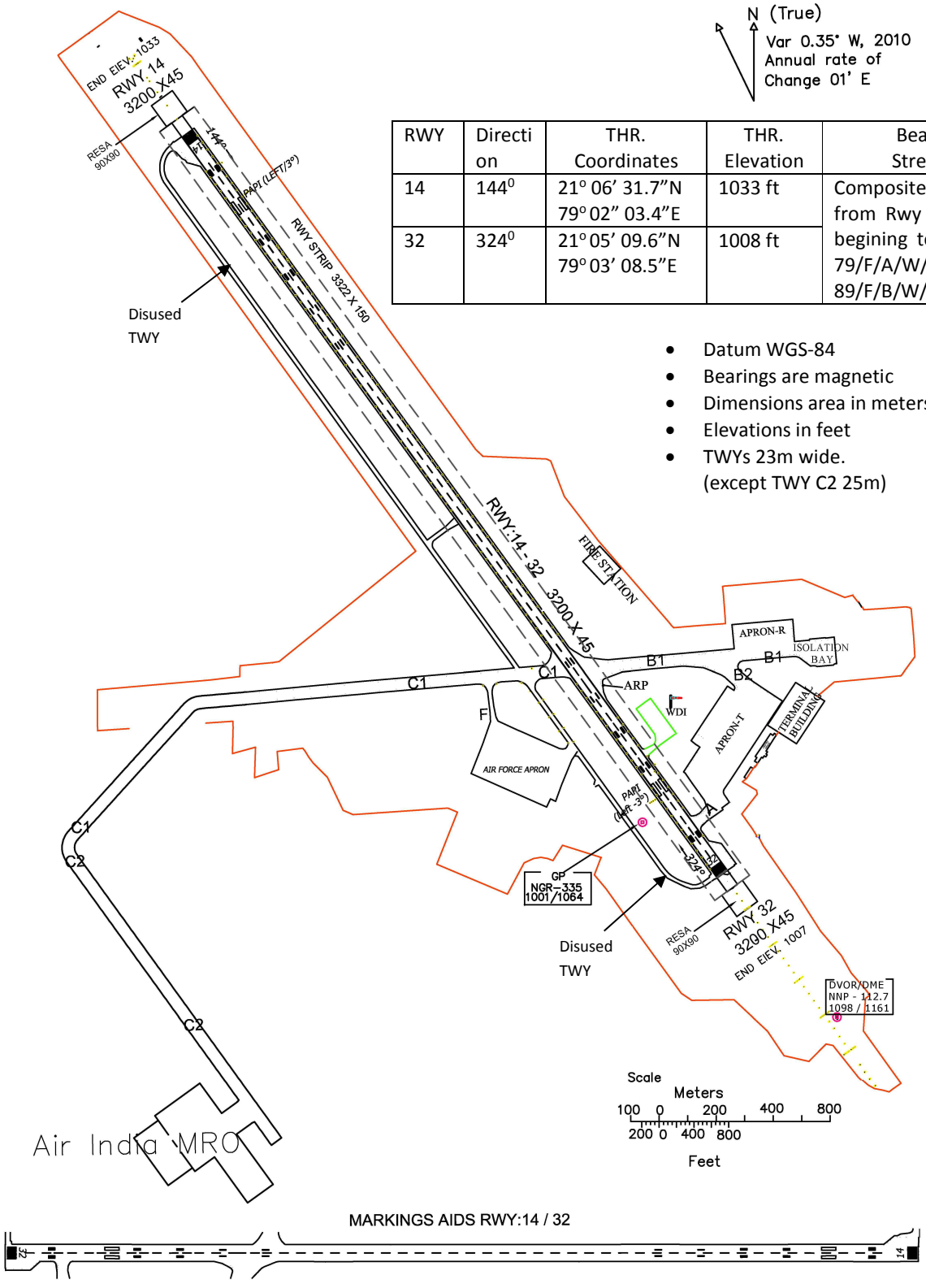
9.VOR (Z) Procedure RWY 14

10.VOR (Z) Procedure RWY 32

11.ATC Surveillance Minimum Altitude Chart

ARP:	21° 05'30.21" N 79° 02' 53.51 E	**AD Elev.** **1033 ft**	TWR 118.1	**Nagpur, India/** **Dr. Babasaheb Ambedkar Intl. Airport**

Aerodrome Chart – ICAO



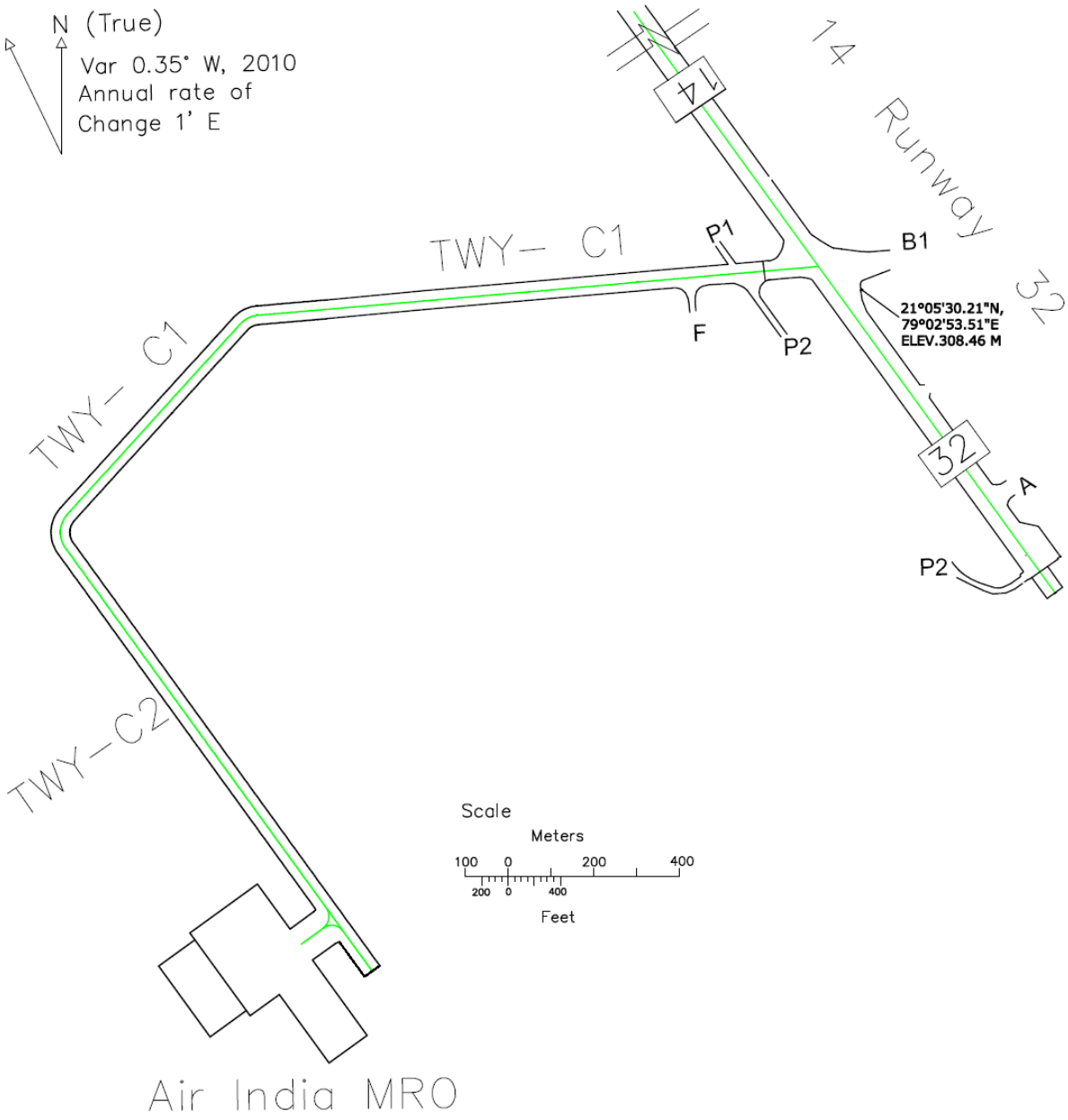
RWY	Direction	THR. Coordinates	THR. Elevation	Bearing Strength
14	144°	21° 06' 31.7"N 79° 02" 03.4"E	1033 ft	Composite Portion from Rwy 32 begining to 5400 ft 79/F/A/W/T rest 89/F/B/W/T
32	324°	21° 05' 09.6"N 79° 03' 08.5"E	1008 ft	

- Datum WGS-84
- Bearings are magnetic
- Dimensions area in meters
- Elevations in feet
- TWYs 23m wide. (except TWY C2 25m)

MARKINGS AIDS RWY:14 / 32

ARP:	21° 05'30.21" N 79° 02' 53.51" E	**ARP Elev.** **1012 ft**	TWR 118.1	**Nagpur, India/** **Dr. Babasaheb Ambedkar Intl. Airport**

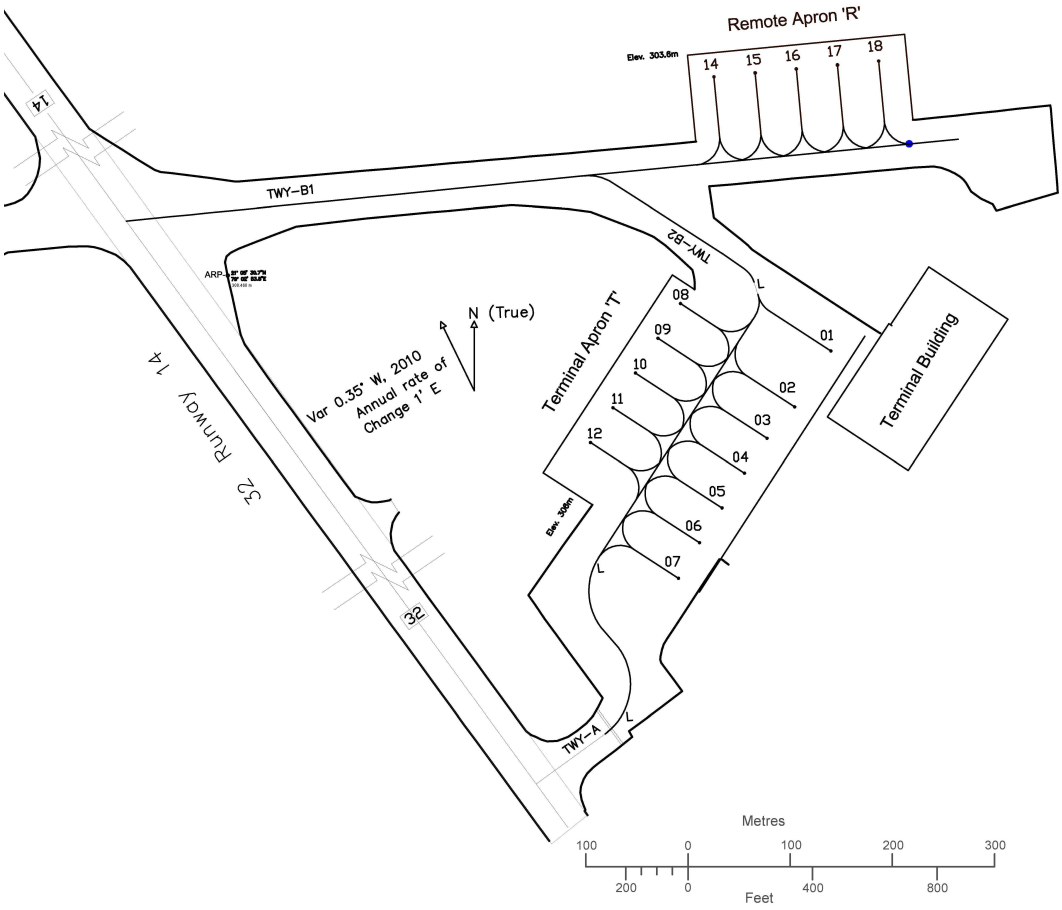
Aerodrome Chart TWY C1-C2: ICAO



Taxiway C1	
Nomenclature	C1
Aircraft Sutability	Code E
Width	23.0 m and Shoulder 10.50m
Surface	Asphalt
Strength	75/F/B/W/T

Taxiway C2	
Nomenclature	C2
Aircraft Sutability	Code E
Width	23.0 m and Shoulder 10.50m
Surface	Concrete
Strength	105/R/B/W/T

Aircraft Parking / Docking Chart – ICAO	Apron T Elev. 1004 ft	TWR 118.1	Nagpur, India/ Dr Babasaheb Ambedkar International Airport

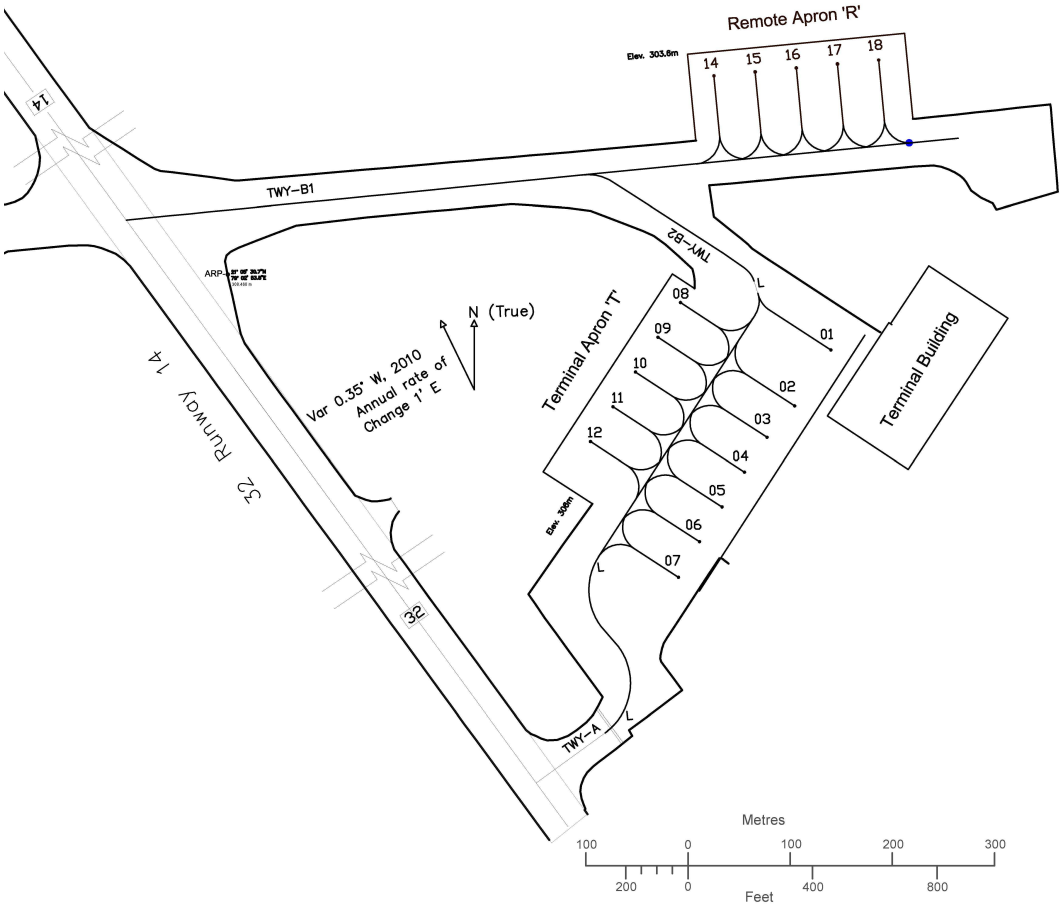


Apron "T" for Aircraft upto Code C
Aircraft Stands 1 & 2 are Contact Stands
Aircraft Stand 7 – Restricted to Code "C" aircraft upto maximum height of 8 m
PCN of Stands 1 to 7: 105/F/A/W/T
PCN of Stands 8 to 12: 85/R/B/W/T

Coordinates for Aircraft Stands		
01.	21^0 05' 27.82"N	079^0 03' 14.01"E
02.	21^0 05' 26.11"N	079^0 03' 12.29"E
03.	21^0 05' 25.03"N	079^0 03' 12.01"E
04.	21^0 05' 23.89"N	079^0 03' 11.12"E
05.	21^0 05' 22.81"N	079^0 03' 10.39"E
06.	21^0 05' 21.72"N	079^0 03' 09.58"E
07.	21^0 05' 20.61"N	079^0 03' 08.80"E
08.	21^0 05' 29.41"N	079^0 03' 08.91"E
09.	21^0 05' 28.22"N	079^0 03' 08.19"E
10.	21^0 05' 27.18"N	079^0 03' 07.42"E
11.	21^0 05' 26.03"N	079^0 03' 06.58"E
12.	21^0 05' 24.91"N	079^0 03' 05.95"E

TWY	Width	Surface	Strength
A	23m	Asphalt	67/F/A/W/T
B1	23m	Asphalt	107/F/A/W/T
B2	23m	Asphalt	107/F/A/W/T
E	41m	Concrete	40/F/B/W/T
F	15m	Concrete	40/F/B/W/T

Aircraft Parking / Docking Chart – ICAO	Apron R Elev. 996 ft	TWR 118.1	Nagpur, India/ Dr. Babasaheb Ambedkar International Airport



Coordinates for Aircraft Stands		
14	21^0 05’ 36.51”N	079^0 03’ 10.01”E
15	21^0 05’ 36.69”N	079^0 03’ 11.29”E
16	21^0 05’ 36.83”N	079^0 03’ 12.68”E
17	21^0 05’ 36.89”N	079^0 03’ 14.12”E
18	21^0 05’ 37.10”N	079^0 03’ 15.61”E

Apron “R” for Aircraft upto Code C
PCN of Apron “R”: 85/R/B/W/T

TWY	Width	Surface	Strength
A	23m	Asphalt	67/F/A/W/T
B1	23m	Asphalt	107/F/A/W/T
B2	23m	Asphalt	107/F/A/W/T
E	41m	Concrete	40/F/B/W/T
F	15m	Concrete	40/F/B/W/T

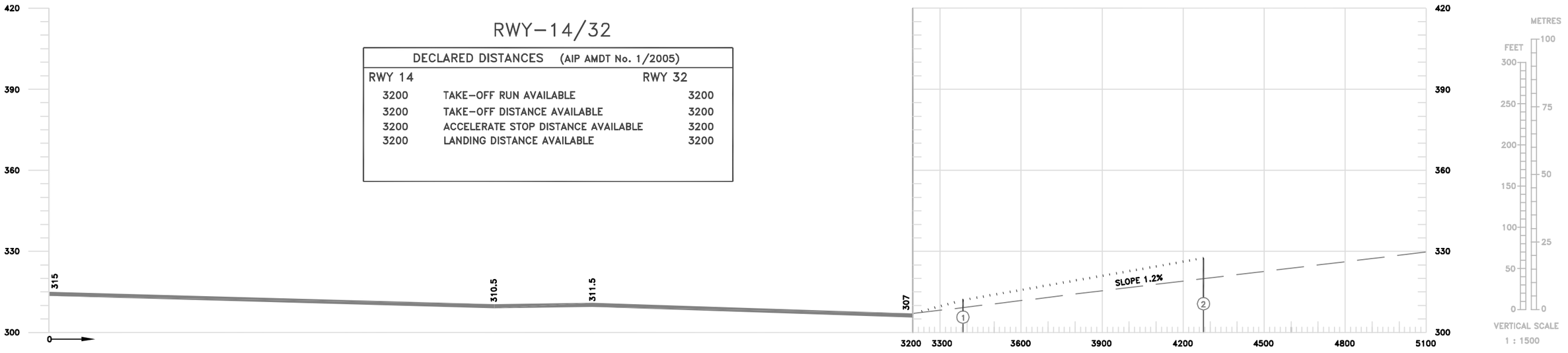
AERODROME OBSTACLE CHART
TYPE-A (OPERATING LIMITATIONS)

DIMENSIONS AND ELEVATIONS IN METRES

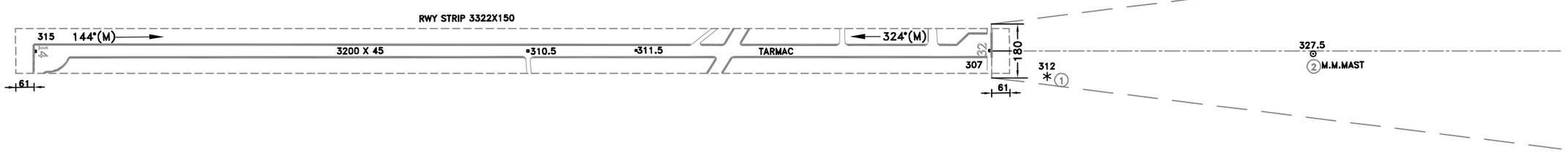
CONSULT NOTAM FOR LATEST INFORMATION

INDIA / NAGPUR
NAGPUR AIRPORT / RWY–14

MAGNETIC VARIATION 1°W 1995



DECLARED DISTANCES (AIP AMDT No. 1/2005)		
RWY 14		RWY 32
3200	TAKE–OFF RUN AVAILABLE	3200
3200	TAKE–OFF DISTANCE AVAILABLE	3200
3200	ACCELERATE STOP DISTANCE AVAILABLE	3200
3200	LANDING DISTANCE AVAILABLE	3200



HORIZONTAL SCALE – 1 : 15000

METRES

500 0 500 1000 1500

1000 0 1000 2000 3000 4000

FEET

LEGEND	
IDENTIFICATION NUMBER	①
TREE OR SHRUB	*
RWY ELEV. (SPOT)	▪310.5
POLE,TOWER,SPIRE,ANTENNA ETC.	⊙

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. Datum – All Elevations are AMSL.
4. All obstacles shown in this chart are based on aeronautical obstacle Survey May,2004.

AMENDMENT RECORD

NO.	DATE	ENTERED BY

AERONAUTICAL INFORMATION UPTO – JAN.,2005

COMPILED BY–CARTOGRAPHY UNIT, AIRPORTS AUTHORITY OF INDIA

CHART No.AAI/04–OBS/CARTO/2006

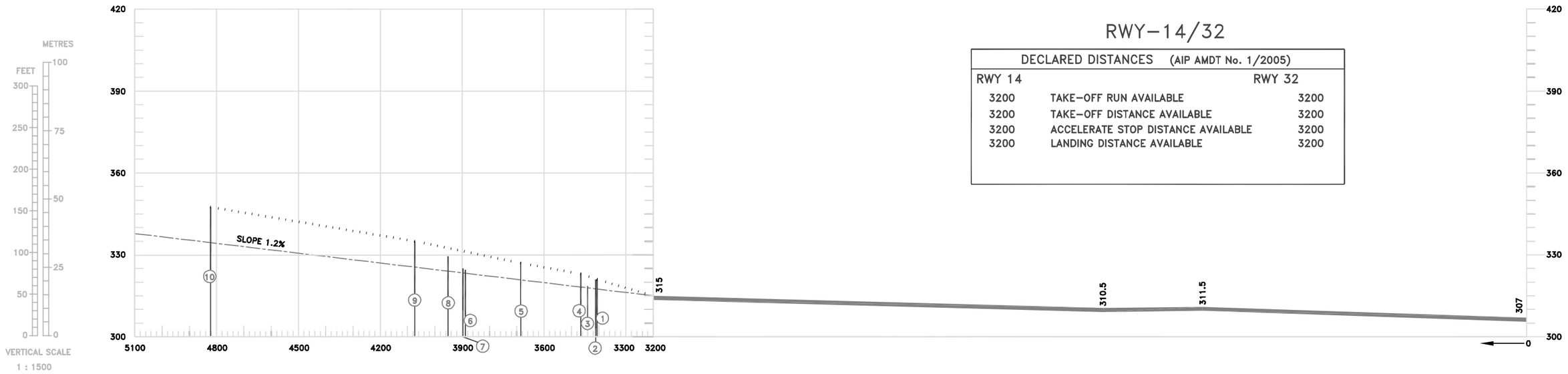
AERODROME OBSTACLE CHART
TYPE-A (OPERATING LIMITATIONS)

DIMENSIONS AND ELEVATIONS IN METRES

CONSULT NOTAM FOR LATEST INFORMATION

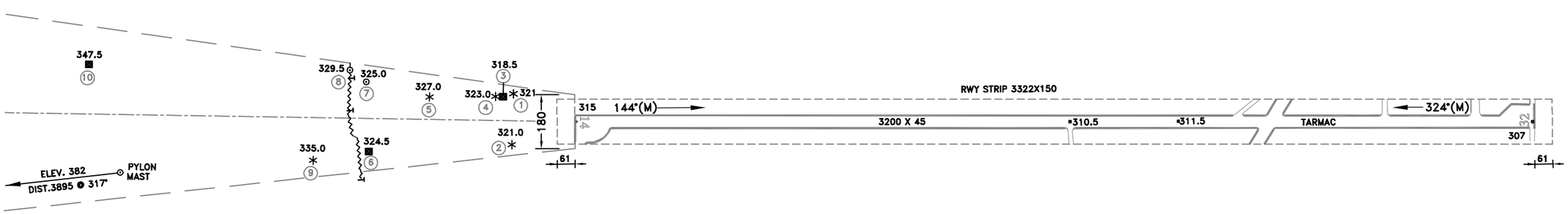
INDIA / NAGPUR
NAGPUR AIRPORT / RWY–32

MAGNETIC VARIATION 1°W 1995



RWY–14/32

DECLARED DISTANCES (AIP AMDT No. 1/2005)		
RWY 14		RWY 32
3200	TAKE–OFF RUN AVAILABLE	3200
3200	TAKE–OFF DISTANCE AVAILABLE	3200
3200	ACCELERATE STOP DISTANCE AVAILABLE	3200
3200	LANDING DISTANCE AVAILABLE	3200



HORIZONTAL SCALE – 1 : 15000

METRES
500 0 500 1000 1500

FEET
1000 0 1000 2000 3000 4000

LEGEND	
IDENTIFICATION NUMBER	①
TREE OR SHRUB	*
RWY ELEV. (SPOT)	•310.5
POLE,TOWER,SPIRE,ANTENNA ETC.	⊙
BUILDING OR LARGE STRUCTURE	■
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. Datum – All Elevations are AMSL.
4. All obstacles shown in this chart are based on aeronautical obstacle Survey May,2004.

AMENDMENT RECORD

NO.	DATE	ENTERED BY

AERONAUTICAL INFORMATION UPTO – JAN.,2005

COMPILED BY–CARTOGRAPHY UNIT, AIRPORTS AUTHORITY OF INDIA

CHART No.AAI/05–OBS/CARTO/2006

INSTRUMENT APPROACH CHART

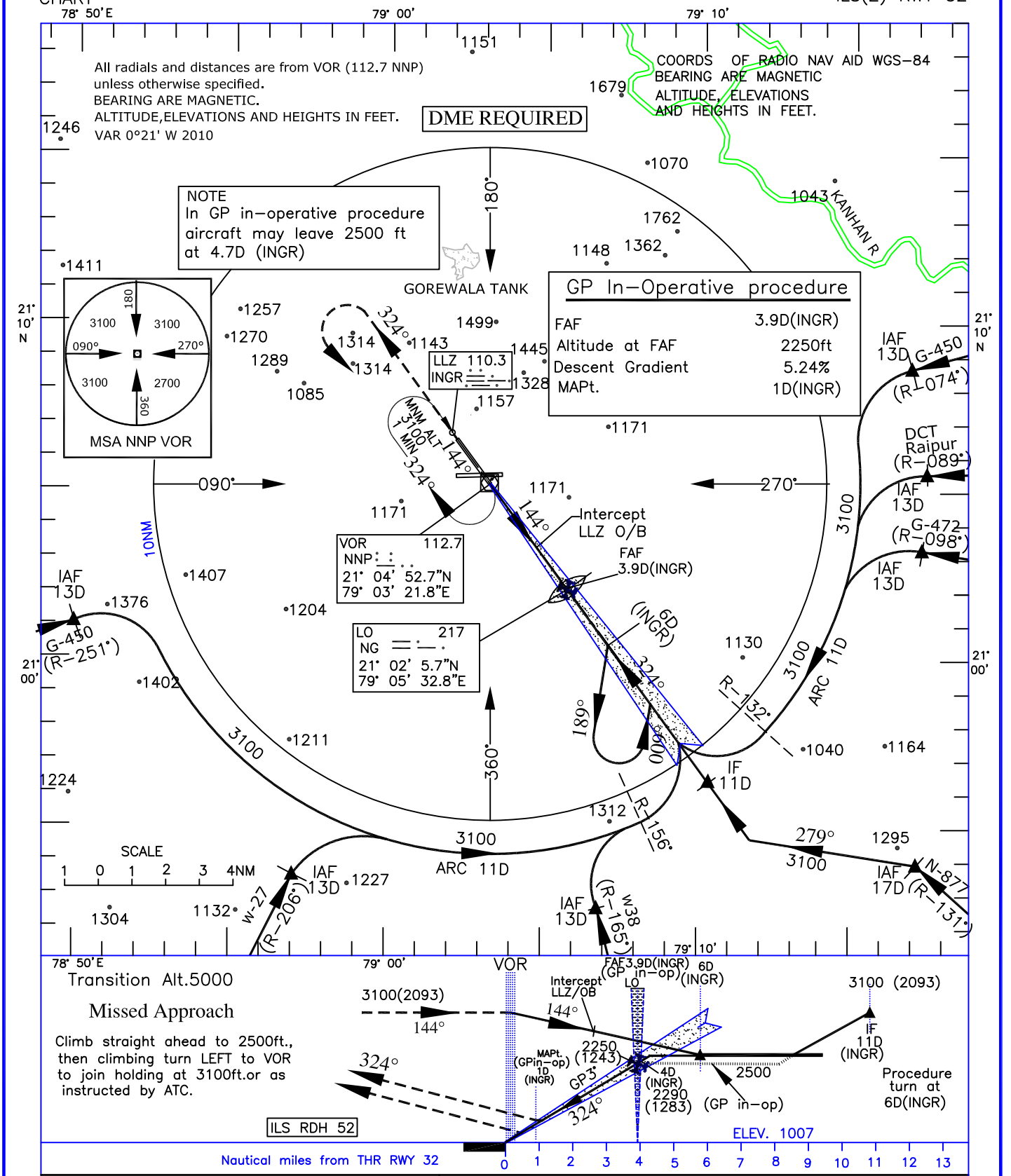
AERODROME ELEV. 1033ft.
HEIGHTS RELATED TO
THR RWY 32 ELEV.1007ft

APP.120.4
TWR.118.1

NAGPUR(VANP)

INDIA

ILS(Z) RWY 32



O C A (H)			Distance (INGR)/Altitude information for GP in-op Procedure:							
CATEGORY OF AIRCRAFT	A/B	C/D	Distance(NM)	4D	3D	2D				
STRAIGHT-IN	1240(233)	1240(233)	Altitude (ft.)	2290	1970	1650				
CIRCLING	1720(687)	1900(867)								
GP in-op Procedure:			Rate of Descent /Ground speed information							
STRAIGHT-IN	1440(433)	1440(433)	Ground speed (kt.)	80	100	120	140	160	180	
CIRCLING	1720(687)	1900(867)	Rate of descent (ft/min)	425	530	635	745	850	955	

DRG. NO. AAI/07-IALC/96/19-07-2018

INSTRUMENT APPROACH CHART

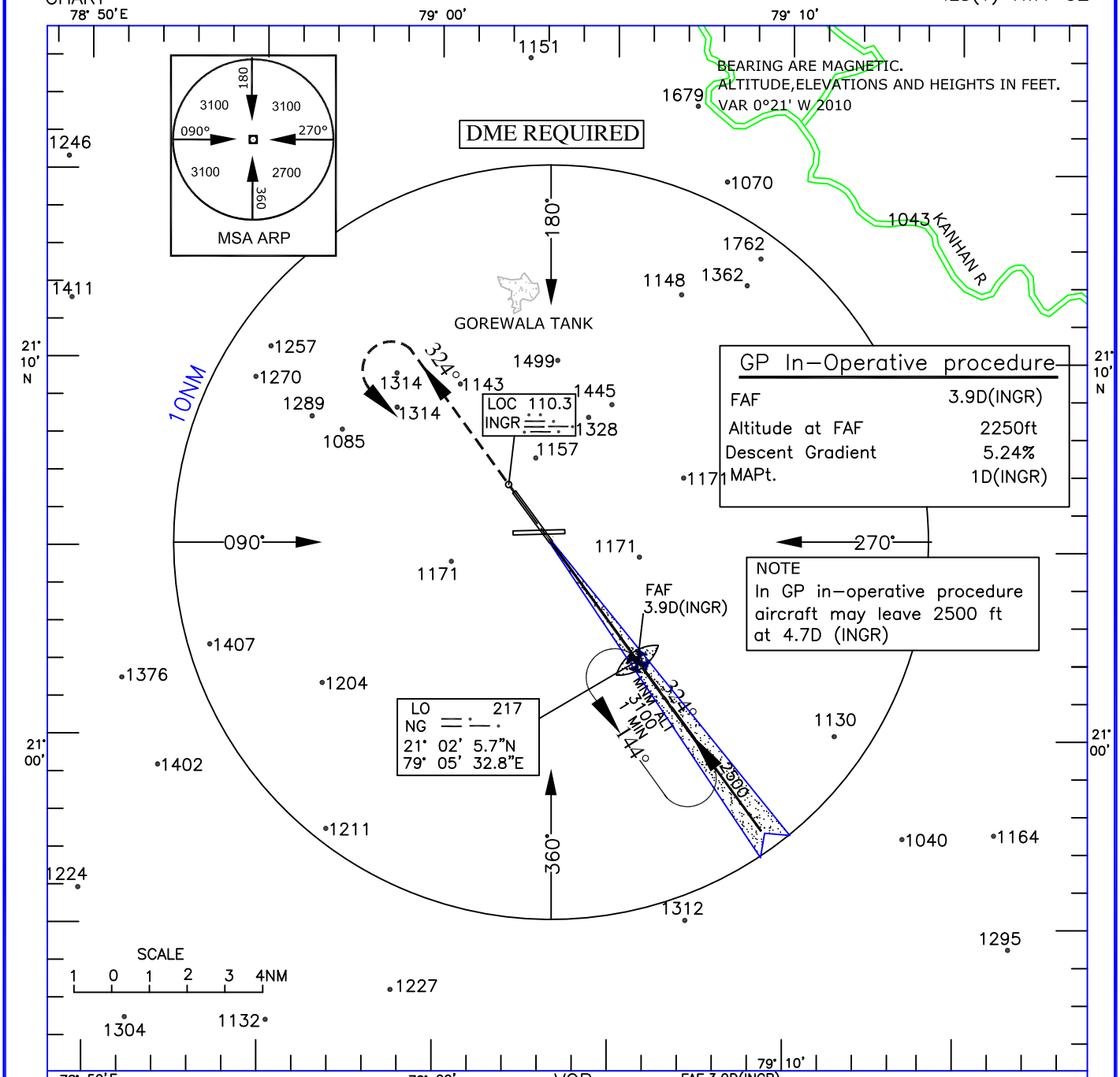
AERODROME ELEV. 1033ft.
HEIGHTS RELATED TO
THR RWY 32 ELEV.1007ft

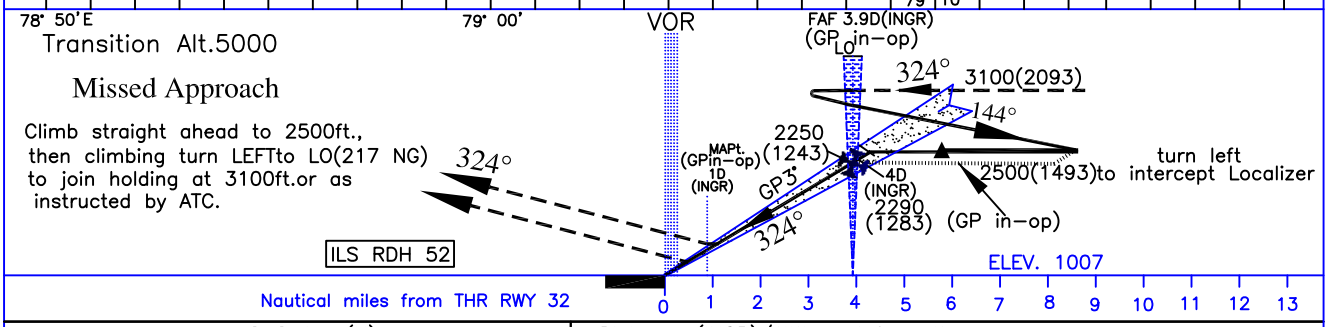
APP.120.4
TWR.118.1

NAGPUR(VANP)

INDIA

ILS(Y) RWY 32





O C A. (H)			Distance (INGR)/Altitude information for GP in-op Procedure:						
CATEGORY OF AIRCRAFT	A/B	C/D	Distance(NM)	4D	3D	2D			
STRAIGHT-IN	1240(233)	1240(233)	Altitude (ft.)	2290	1970	1650			
CIRCLING	1720(687)	1900(867)							
GP in-op Procedure:			Rate of Descent /Ground speed information						
STRAIGHT-IN	1440(433)	1440(433)	Ground speed (kt.)	80	100	120	140	160	180
CIRCLING	1720(687)	1900(867)	Rate of descent (ft/min)	425	530	635	745	850	955

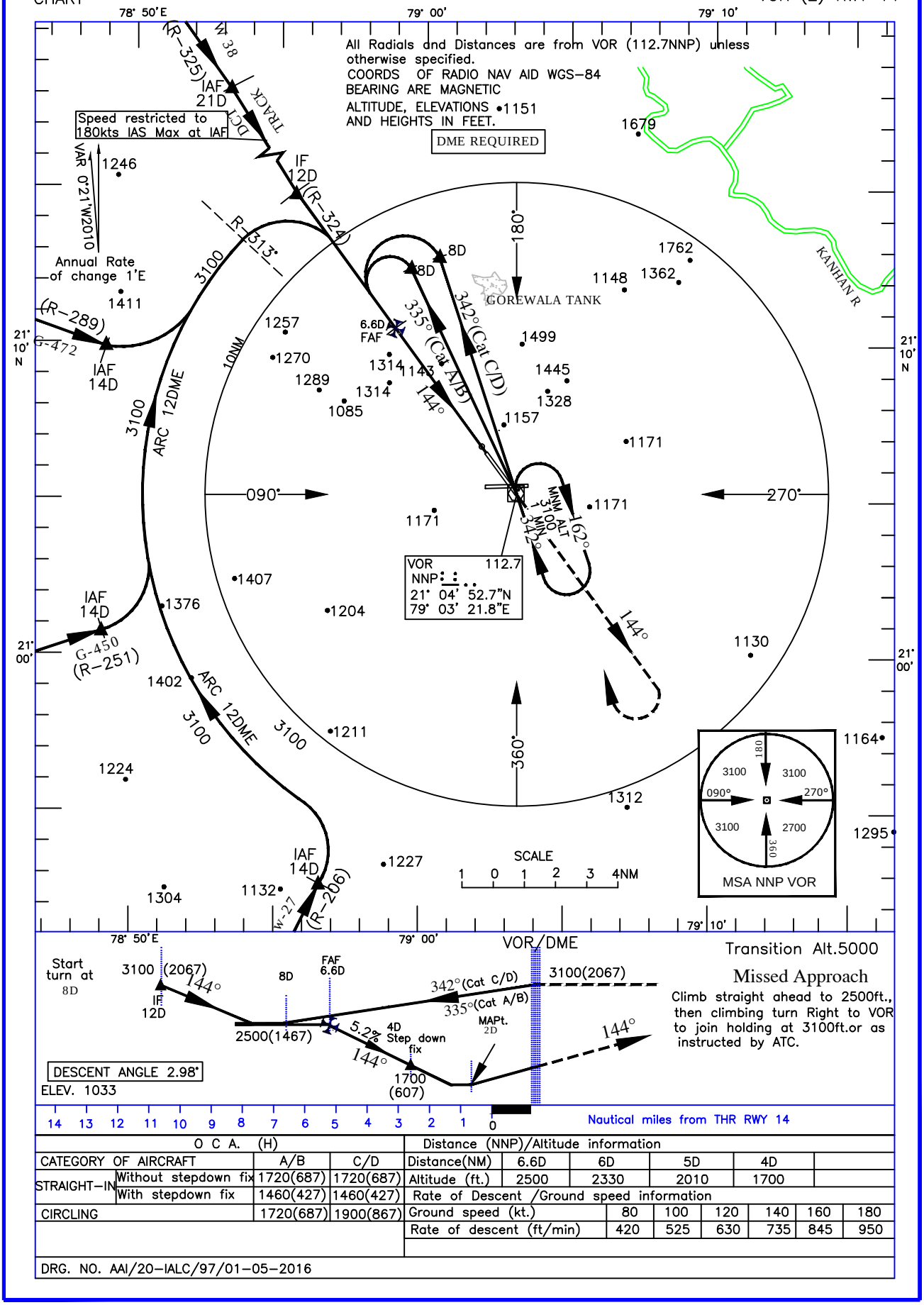
DRG. NO. AAI/07-IALC/96/19-07-2018

INSTRUMENT APPROACH CHART

AERODROME ELEV. 1033ft.
HEIGHTS RELATED TO
THR RWY 14 ELEV.1033ft

APP.120.4
TWR.118.1

NAGPUR
INDIA
VOR (Z) RWY 14



Transition Alt.5000

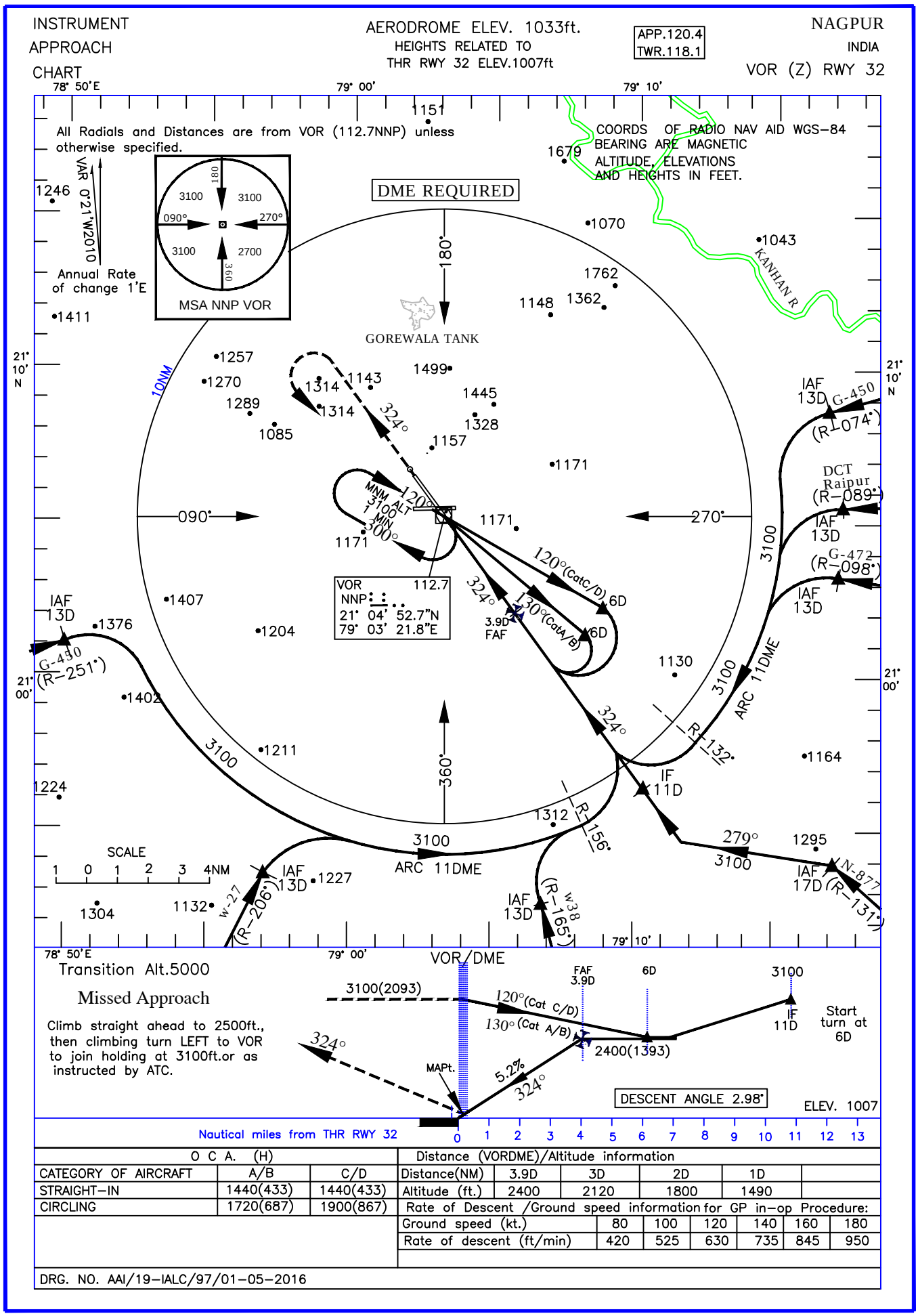
Missed Approach

Climb straight ahead to 2500ft., then climbing turn Right to VOR to join holding at 3100ft.or as instructed by ATC.

O C A. (H)			
CATEGORY OF AIRCRAFT		A/B	C/D
STRAIGHT-IN	Without stepdown fix	1720(687)	1720(687)
	With stepdown fix	1460(427)	1460(427)
CIRCLING		1720(687)	1900(867)

Distance (NNP)/Altitude information						
Distance(NM)	6.6D	6D	5D	4D		
Altitude (ft.)	2500	2330	2010	1700		
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/20-IALC/97/01-05-2016



O C A. (H)		
CATEGORY OF AIRCRAFT	A/B	C/D
STRAIGHT-IN	1440(433)	1440(433)
CIRCLING	1720(687)	1900(867)

Distance (VORDME)/Altitude information					
Distance(NM)	3.9D	3D	2D	1D	
Altitude (ft.)	2400	2120	1800	1490	

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)	420	525	630	735	845	950

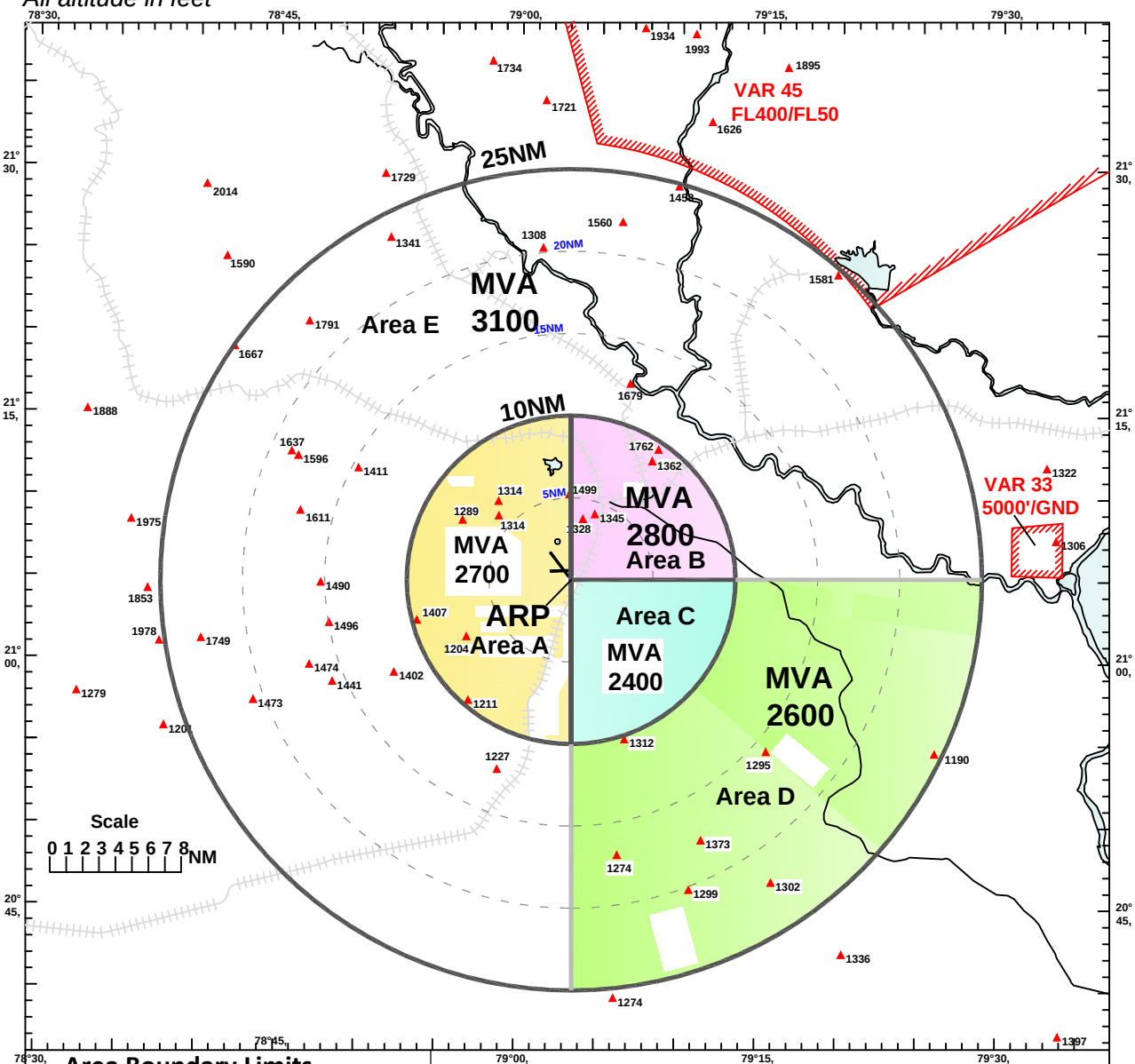
DRG. NO. AAI/19-IALC/97/01-05-2016

NAGPUR (VANP)
ATC Surveillance
Minimum Altitude Chart

Ad. Elev-1033
Transition Alt.-5000
Mag. Var. - 2°00' W (2010)

All altitude in feet

APP. 120.40
TWR. 118.10



Area Boundary Limits

Area ID	Area Boundary Limits
Area A 2700 ft	Area bounded by semicircle of radius 10NM centered at ARP starting from 180° to 360° .
Area B 2800 ft	Area bounded by arc of radius 10NM centered at ARP starting from 000° to 090° along shorter arc.
Area C 2400 ft	Area bounded by arc of radius 10NM centered at ARP starting from 090° to 180° along shorter arc.
Area D 2600 ft	Area bounded between an arc radius 10NM & 25NM centered at ARP starting from 090°to 180° along shorter arc .
Area E 3100 ft	Area bounded between an arc radius 10NM & 25NM centered at ARP starting from 180°to 090° along shorter arc .

Radio Communication Failure Procedure:

When providing navigational guidance to aircraft based on the use of an Air Traffic Service 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 3100Ft whichever is higher and proceed to NNP 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 NNP VOR holding at 3100Ft.
3. After joining the holding procedure aircraft shall carryout the instrument approach procedure for which navigational guidance was being provided.

NOTE:

1. Altitudes shown are based on QNH.
2. Only signficant spot elevations are shown
3. ATC Surveillance Minimum Altitudes are established within 25NM of ARP(210531N 0790254E).
4. Chart may only be used for cross-checking of altitude assigned while the aircraft is identified.