

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

VABO - VADODARA / DOMESTIC

VABO AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	Aerodrome reference point coordinates and its site	221948N 0731308E 27.20 DEG / 221 M from physical extremity of RWY 04
2	Direction and distance of aerodrome reference point from the center of the city or town which the aerodrome serves	045 DEG/7KM from Vadodara Railway Station
3	Aerodrome elevation and reference temperature	132 FT / 41.0 DEG C
4	Magnetic variation, date of information and annual change	0.36 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,, Vadodara Airport,, Vadodara - - 390022
	Telephone:	+91-265-2485356.
	Fax:	+91-265-2464249
	AFS:	VABOYHYX
	Email:	apdvadodara@aai.aero
6	Types of traffic permitted (IFR/VFR)	IFR/VFR
7	Remarks	NIL

VABO 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	As ATS
10	Security	As ATS
11	De-icing	NIL
12	Remarks	Outside of these ATS hours, services are available O/R with 04 HR PN to AD. The ATS approved hourly runway traffic handling capacity is as follows: Maximum number of Arrival and Departure -12 (The minimum spacing between two successive arrivals shall be more than five minutes) Maximum number of Arrival only -6 Maximum number of Departures only -10

VABO AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	Limited - Manual
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2	Fuel and Oil types	JET A1
3	Fuelling facilities and capacity	Refuellers of 18,000 liters, 11.0litres/Sec.
4	De-icing facilities	NIL
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	NIL
7	Remarks	NIL

VABO AD 2.5 PASSENGER FACILITIES

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

VABO 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

VABO AD 2.7 SEASONAL AVAILABILITY CLEARING

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

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

1	Designation, surface and strength of aprons	Designator: Apron New Extended Surface: Concrete Strength: PCN 71/R/C/W/T Designation: Apron over laid on old Surface: Concrete Strength: a) Extended portion of Apron (600X300-300X250FT) 70/R/A/W/T b) Apron portion (300X250 FT) 81/R/A/W/T
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2	Designation, width, surface and strength of taxiways	<p>Designator: TWY A Width: 23 M Surface: Strength: PCN 45/F/D/X/T</p> <p>Designator: TWY B Width: 23 M Surface: Strength: PCN 45/F/D/X/T</p> <p>Designator: TWY C Width: 23 M Surface: Strength: PCN 57/F/B/W/T</p> <p>Designator: TWY D</p> <p>Designator: TWY F</p> <p>Designator: TWY G Width: 60 FT Surface: Strength:</p>
3	Location and elevation of altimeter checkpoints	Parking Stand 1 ALT 123FT AMSL
4	Location of VOR checkpoints	TWY D
5	Position of INS checkpoints	NIL
6	Remarks	<p>i. Isolation bay Dimension 61X76M, PCN 61/R/D/W/T</p> <p>ii. Night parking Taxi F 80/R/C/W/T</p> <p>iii. TWY G connecting RWY 04/22 to blast pen 3, 4, 5, 6 to be used by IAF aircraft only. Length of TWY 1200FT. Width of shoulders on TWY G 30 FT on both sides.</p> <p>iv. Coordinates of TWY Holding positions:</p> <p>a. TWY A1: 221940.12N 0731306.71E, Elev: 124.45 FT</p> <p>b. TWY B: 221946.30N 0731304.74E, Elev: 126.12 FT</p> <p>c. TWY C: 221948.04N 0731306.63E, Elev: 126.20 FT</p> <p>d. TWY D: 221952.88N 0731311.67E, Elev: 126.20 FT</p> <p>e. TWY E: 221953.79N 0731321.42E, Elev: 124.46 FT</p> <p>f. TWY F: 221945.02N 0731312.31E, Elev: 124.75 FT</p> <p>g. TWY H: 221943.19N 0731327.40E, Elev: 122.36 FT</p>

VABO 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	TWY guidance signal at all the intersection with TWY and RWY Guidelines at Apron
2	Runway and taxiway markings and lights	<p>RWY Markings: Designation, THR, TDZ, Centerline, Edge</p> <p>RWY Lighting: THR, Edge, End</p> <p>TWY Markings: Centreline, Holding Positions</p> <p>TWY Lighting: TWY B & C Edge.</p>
3	Stop bars (if any)	NIL
4	Remarks	NIL

VABO 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
22/TKOF 04/APCH	POLE	221936.0N 0731252.6E	146 FT	NIL	Electric Pole

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
22/TKOF 04/APCH	ANTENNA	221940.0N 0731302.6E	127 FT	NIL	LOC MONITOR ANTENNNA
22/TKOF 04/APCH	POLE	221935.8N 0731253.7E	145 FT	NIL	ELECTRIC POLE
22/TKOF 04/APCH	POLE	221937.4N 0731253.3E	145 FT	NIL	ELECTRIC POLE
22/TKOF 04/APCH	BUILDING	221932.0N 0731302.6E	141 FT	NIL	TEMPLE
22/TKOF 04/APCH	OTHER	221937.3N 0731303.7E	139 FT	NIL	MOBILE ROAD TRAFFIC
22/TKOF 04/APCH	POLE	221936.9N 0731255.4E	144 FT	NIL	Electric Pole
22/TKOF 04/APCH	BUILDING	221939.9N 0731258.5E	151 FT	NIL	LOC HUT
22/TKOF 04/APCH	BUILDING	221933.7N 0731259.8E	144 FT	NIL	BUILDING
22/TKOF 04/APCH	HEAT COOL SYSTEM	221928.2N 0731254.6E	159 FT	NIL	VENTILATION PIPE
22/TKOF 04/APCH	POLE	221933.1N 0731259.5E	146 FT	NIL	LIGHT POST
22/TKOF 04/APCH	BUILDING	221939.7N 0731253.7E	146 FT	NIL	BUILDING
22/TKOF 04/APCH	POLE	221934.4N 0731300.5E	145 FT	NIL	LIGHT POST
22/TKOF 04/APCH	OTHER	221931.8N 0731251.8E	160 FT	NIL	VENTILATION PIPE
22/TKOF 04/APCH	POLE	221930.5N 0731301.1E	154 FT	NIL	ELECTRIC POLE
22/TKOF 04/APCH	POLE	221936.8N 0731249.6E	161 FT	NIL	ELECTRIC POLE
22/TKOF 04/APCH	TREE	221934.1N 0731259.8E	157 FT	NIL	TREE
22/TKOF 04/APCH	TREE	221934.7N 0731258.2E	166 FT	NIL	TREE
22/TKOF 04/APCH	TREE	221935.0N 0731257.1E	168 FT	NIL	TREE
22/TKOF 04/APCH	OTHER	221934.1N 0731301.1E	139 FT	NIL	MOBILE ROAD TRAFFIC
22/TKOF 04/APCH	POLE	221935.1N 0731258.8E	141 FT	NIL	LIGHT POST
22/TKOF 04/APCH	POLE	221936.2N 0731255.5E	144 FT	NIL	LIGHT POST
22/TKOF 04/APCH	OTHER	221926.4N 0731255.1E	159 FT	NIL	VENTILATION PIPE
22/TKOF 04/APCH	BUILDING	221929.2N 0731256.4E	156 FT	NIL	BUILDING
22/TKOF 04/APCH	POLE	221932.3N 0731302.1E	146 FT	NIL	ELECTRIC POLE
22/TKOF 04/APCH	OTHER	221937.3N 0731303.7E	137 FT	NIL	MOBILE ROAD TRAFFIC
22/TKOF 04/APCH	POLE	221930.9N 0731259.0E	156 FT	NIL	ELECTRIC POLE
22/TKOF 04/APCH	OTHER	221931.4N 0731301.5E	158 FT	NIL	VENTILATION PIPE

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
22/TKOF 04/APCH	OTHER	221929.3N 0731256.5E	170 FT	NIL	MAST ON BUILDING
22/TKOF 04/APCH	TREE	221934.6N 0731302.0E	155 FT	NIL	GROUP OF TREES
22/TKOF 04/APCH	TREE	221939.4N 0731254.2E	169 FT	NIL	GROUP OF TREES
22/TKOF 04/APCH	BUILDING	221932.6N 0731302.6E	183 FT	NIL	NISHANSAHIB GURDAWRA
22/APCH 04/TKOF	TREE	222055.9N 0731412.9E	162 FT	NIL	TREE
22/APCH 04/TKOF	POLE	222050.8N 0731408.6E	151 FT	NIL	LIGHT POST
22/APCH 04/TKOF	TREE	222056.1N 0731427.5E	188 FT	NIL	GROUP OF TREES
22/APCH 04/TKOF	POLE	222051.2N 0731409.3E	159 FT	NIL	LIGHT POST
22/APCH 04/TKOF	OTHER	222056.1N 0731414.1E	174 FT	NIL	HOARDING
22/APCH 04/TKOF	TREE	222107.1N 0731426.2E	226 FT	NIL	GROUP OF TREES
22/APCH 04/TKOF	OTHER	222107.0N 0731423.7E	240 FT	NIL	MAST ON BUILDING TOBACO FACTORY
In circling area and at AD	TOWER	221925.4N 0731104.7E	395 FT	NIL	MICROWAVE TOWER (BSNL)
In circling area and at AD	BUILDING	221928.5N 0731300.2E	148 FT	NIL	BUILDING
In circling area and at AD	OTHER	221938.1N 0731250.2E	155 FT	NIL	HOARDING
In circling area and at AD	OTHER	221931.6N 0731303.2E	147 FT	NIL	WATER TANK ON BUILDING TOP
In circling area and at AD	TREE	221930.7N 0731304.1E	167 FT	NIL	TREE
In circling area and at AD	POLE	221943.2N 0731258.1E	139 FT	NIL	LIGHT POST
In circling area and at AD	BUILDING	221935.7N 0731307.0E	149 FT	NIL	STRUCTURE
In circling area and at AD	BUILDING	221937.3N 0731308.3E	150 FT	NIL	STRUCTURE
In circling area and at AD	POLE	221933.0N 0731304.4E	157 FT	NIL	ELECTRIC POLE
In circling area and at AD	TREE	221944.0N 0731258.5E	150 FT	NIL	GROUP OF TREES
In circling area and at AD	BUILDING	221947.5N 0731258.8E	183 FT	NIL	TERMINAL BUILDING
In circling area and at AD	OTHER	221908.1N 0731244.6E	214 FT	NIL	CELL PHONE MAST ON BUILDING TOP
In circling area and at AD	POLE	221934.2N 0731305.1E	156 FT	NIL	ELECTRIC POLE
In circling area and at AD	BUILDING	221936.3N 0731306.4E	147 FT	NIL	STRUCTURE

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	POLE	221935.8N 0731305.9E	155 FT	NIL	ELECTRIC POLE
In circling area and at AD	OTHER	221944.5N 0731300.0E	158 FT	NIL	FL MAST
In circling area and at AD	FENCE	221944.0N 0731259.5E	130 FT	NIL	AIRPORT BOUNDARY WALL WITH FENCE ON TOP
In circling area and at AD	BUILDING	221938.0N 0731307.6E	145 FT	NIL	STRUCTURE
In circling area and at AD	OTHER	222232.3N 0731515.5E	293 FT	NIL	PYLON MAST
In circling area and at AD	OTHER	222134.5N 0731534.9E	301 FT	NIL	PYLON MAST
In circling area and at AD	TREE	222047.6N 0731425.8E	176 FT	NIL	TREE
In circling area and at AD	POLE	222048.8N 0731405.8E	150 FT	NIL	LIGHT POST
In circling area and at AD	FENCE	222031.6N 0731349.3E	140 FT	NIL	AIRPORT BOUNDARY WALL WITH FENCE ON TOP
In circling area and at AD	POLE	222045.7N 0731403.1E	149 FT	NIL	LIGHT POST
In circling area and at AD	POLE	222043.2N 0731400.8E	147 FT	NIL	LIGHT POST
In circling area and at AD	BUILDING	222034.4N 0731408.3E	154 FT	NIL	STRUCTURE
In circling area and at AD	BUILDING	222046.0N 0731424.2E	188 FT	NIL	BUILDING
In circling area and at AD	BUILDING	222036.4N 0731410.2E	154 FT	NIL	STRUCTURE
In circling area and at AD	TREE	222029.6N 0731347.1E	157 FT	NIL	GROUP OF TREES
In circling area and at AD	NAVAID	222036.4N 0731356.7E	146 FT	NIL	GP MONITOR ANTENNA
In circling area and at AD	BUILDING	222041.7N 0731403.6E	146 FT	NIL	GENERATOR ROOM
In circling area and at AD	POLE	222029.3N 0731401.3E	149 FT	NIL	LIGHT POST
In circling area and at AD	NAVAID	222034.8N 0731354.7E	150 FT	NIL	GP / DME ANTEENA
In circling area and at AD	POLE	222031.4N 0731351.4E	158 FT	NIL	LIGHT POST
In circling area and at AD	POLE	222030.1N 0731349.5E	154 FT	NIL	LIGHT POST
In circling area and at AD	POLE	222030.7N 0731350.5E	154 FT	NIL	LIGHT POST
In circling area and at AD	BUILDING	222034.9N 0731407.0E	155 FT	NIL	STRUCTURE
In circling area and at AD	NAVAID	222034.6N 0731354.9E	182 FT	NIL	GP ANTENNA
In circling area and at AD	BUILDING	221946.7N 0731543.1E	291 FT	NIL	UNDER CONSTRUCTION BUILDING

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	222145.9N 0731613.2E	338 FT	NIL	PYLON MAST
In circling area and at AD	OTHER	222134.3N 0731632.7E	398 FT	NIL	PYLON MAST
In circling area and at AD	OTHER	222134.2N 0731604.7E	306 FT	NIL	PYLON MAST
In circling area and at AD	OTHER	222129.0N 0731615.0E	320 FT	NIL	PYLON MAST
In circling area and at AD	OTHER	222136.9N 0731545.8E	320 FT	NIL	PYLON MAST
In circling area and at AD	OTHER	222137.1N 0731551.0E	321 FT	NIL	PYLON MAST

VABO AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Name of the associated meteorological office	Vadodara
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	Vadodara 00-09, 03-12, 06-15, 09-18, 21-06 HR
4	Availability of the trend forecast for the aerodrome and interval of issuance	NIL
5	Information on how briefing and/or consultation is provided	Available on 3 Hrs prior notice.
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	Available on 3 Hrs prior notice.
8	Supplementary equipment available for providing information on meteorological conditions, e.g. weather radar and receiver for satellite images;	Telephone, Internet
9	The air traffic services unit(s) provided with meteorological information	Vadodara ATC AND ACS
10	Additional information, e.g. concerning any limitation of service.	Documentation provided A/R. Digital Wind Panel.

VABO 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
04	44.29 DEG	2469 x 45 M	53/F/B/W/T Asphalt	THR: 221946.65N 0731309.57E RWY END: 222039.15N 0731404.62E
22	224.29 DEG	2469 x 45 M	53/F/B/W/T Asphalt	THR: 222039.15N 0731404.62E RWY END: 221941.72N 0731304.39E

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: 128.0FT TDZ: 128.0FT	0.64%	NIL	NIL	2589 x 150 M
THR: 130.0FT TDZ: 132.0FT	-0.64%	NIL	NIL	2589 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		NIL	NIL
90M x 90M		NIL	NIL

VABO 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
04	2469	2469	2469	2256	
22	2469	2469	2469	2469	

VABO 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
04	SALS 420 M	Green	PAPI LEFT/3.00 DEG	NIL
22	SALS 420 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
	2469 M 60 M White LIM	Red	NIL	MEHT 60 FT for B737 RWY 04/22
	2469 M 60 M White LIM	Red	NIL	NIL

VABO 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
		IBN	NIL
2	Location and lighting (if any) of anemometer/landing direction indicator;	LDI	105M SE of ARP lighted.
		Anemometer	Over ATC Tower, unlighted
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. Switch-over time: 15 SEC.	
5	Remarks	WDI OPR at a distance of 311 m from THR RWY22 longitudinally and 84.2 m laterally from RWY centreline on left side of RWY22.	

VABO 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

VABO AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	CTR: Circular area centered on DVOR QQZ (221958N 0731331E) within a 25NM radius.
2	Vertical limits	FL 70
3	Airspace classification	D
4	Call sign and language(s) of the air traffic services unit providing service;	Vadodara Tower, English
5	Transition altitude	4000 FT
6	Hours of applicability	
7	Remarks	NIL

VABO AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	2	3	4
TWR	Vadodara Tower	122.350 MHZ	
ATIS	Vadodara Information	126.850 MHZ	

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

VABO 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 22	IVDD	110.500 MHz	As ATS
GP 22		329.600 MHz	As ATS
DME ILS 22	IVDD	CH42X	As ATS
DVOR/DME	QQZ	117.300 MHz CH120X	H24
NDB	QZ	304 kHz	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
221938.0N 0731300.9E			
222034.9N 0731353.9E			
222034.9N 0731353.9E	179 FT		Co-located with GP22
221958.7N 0731330.2E	149 FT		
222005.2N 0731233.6E			

VABO AD 2.20 LOCAL AERODROME REGULATIONS

NIL

VABO AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

VABO AD 2.22 FLIGHT PROCEDURES

NIL

VABO AD 2.23 ADDITIONAL INFORMATION

1. Threshold lights RWY22 (Precision Approach RWY CAT-I) Total no. of Lights 18 provided at an interval of 3M. between the rows of RWY edge lights at the extremity of RWY.

2. End lights RWY04: Total No. of lights 6 provided at the extremity of RWY22.

3. Doordarshan TV tower at 221736N 0731733E of height 577FT AMSL

4. WGS coordinates/elevation for aircraft stands:

Aircraft Stand No.	Coordinates	Elevation
1.	221949.5N 0731300.6E	124 FT
2.	221950.4N 0731301.6E	124 FT
3.	221951.4N 0731302.9E	124 FT
4.	221952.2N 0731304.0E	124 FT
5.	221953.2N 0731305.2E	124 FT
6.	221954.1N 0731306.4E	124 FT
7.	221954.9N 0731307.6E	124 FT
8.	221949.2N 0731345.0E	120 FT
9.	221947.8N 0731345.0E	121 FT
10.	221946.3N 0731345.0E	122 FT
11.	221943.5N 0731345.0E	121 FT
12.	221942.1N 0731345.0E	120 FT
13.	221940.6N 0731345.0E	122 FT

5. Road Holding (R.H.) Position signages provided at road connecting RWY 04/22 Signages are identified as and located at, as per the following details:

1.	R.H.1	221975.8N 0731303.9E
2.	R.H.2	221969.9N 0731300.9E
3.	R.H.3	221996.7N 0731317.4E
4.	R.H.4	221999.3N 0731331.0E
5.	R.H.5	221997.9N 0731343.0E
6.	R.H.6	222024.0N 0731357.5E
7.	R.H.7	222015.9N 0731362.5E
8.	R.H.8	222045.1N 0731379.9E

6. Indian Airforce arrestor barrier hut located on right side of RWY 22 at a distance of 30M before beginning of RWY 22 and 45M from extended RCL.

7. Two concrete structure located at edge of RWY on both side and 30.50M before threshold RWY22. Dimension 3.85 M X 1.85M Height.21M.

8. Pylon Mast Details all parameter in M

S. No.	Elev / AMSL	Longitudinal Distance From THR RWY 22	Lateral Distance Right Side of Centreline	Lateral Distance Left Side of Centreline
1.	88.3	3380	280	-
2.	86.9	3475	595	-

3.	91.4	3080	-	20
4.	90.0	2915	-	300
5.	90.8	2970	-	660
6.	88.7	3885	980	-

VABO AD 2.24 CHARTS RELATED TO AN AERODROME

1. Aerodrome Chart
2. Aerodrome Obstacle Chart Type-A (Operating Limitations) RWY 04
3. Aerodrome Obstacle Chart Type-A (Operating Limitations) RWY 22
4. ILS (Z) Procedure RWY22
5. ILS (Y) Procedure RWY22
6. VOR Procedure RWY 04
7. VOR Procedure RWY 22

AERODROME
CHART

22°19'48.15"N
073°13'07.84"E

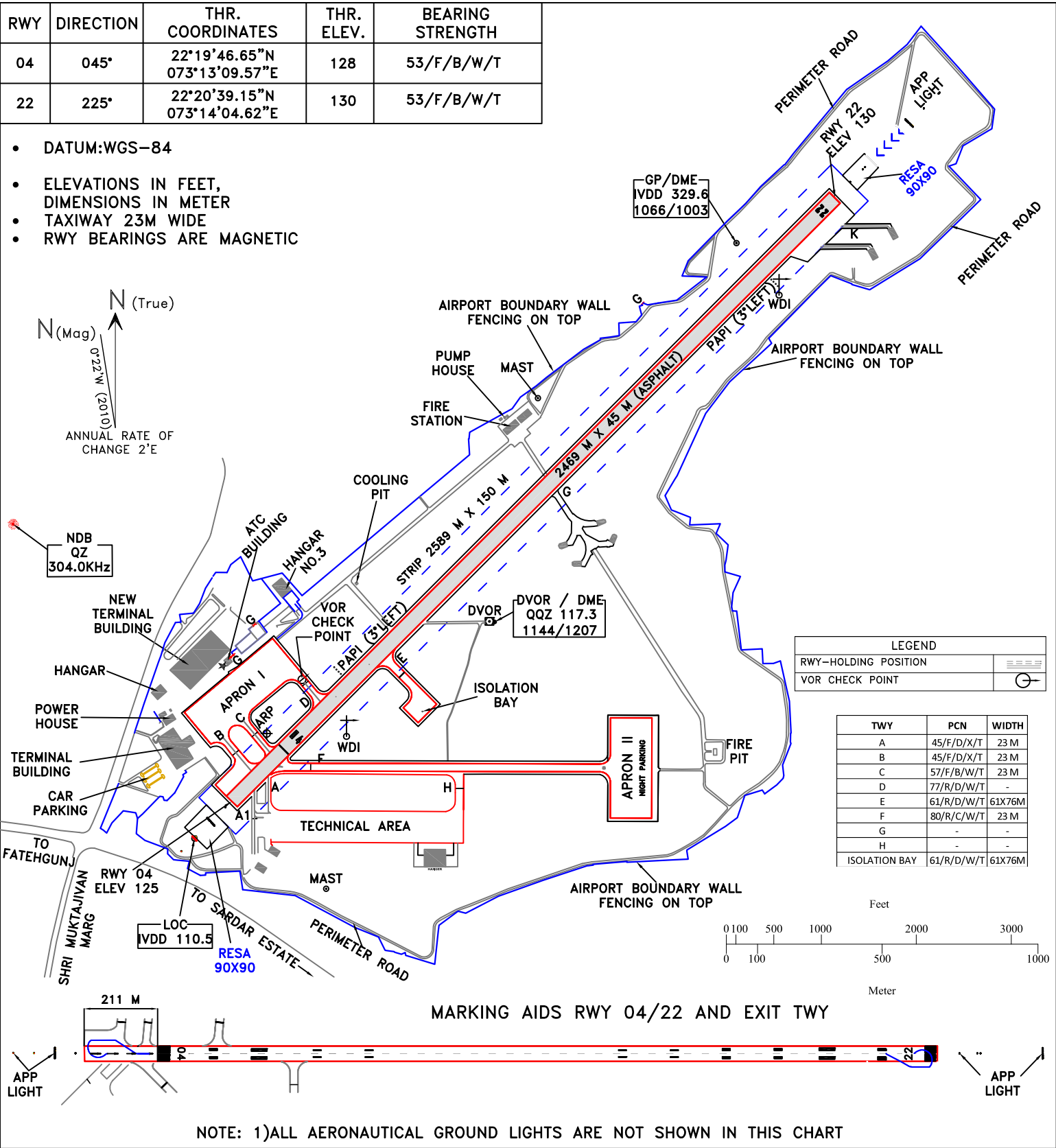
ELEV. 132

TWR 122.35

VADODARA / INDIA
VADODARA AIRPORT

RWY	DIRECTION	THR. COORDINATES	THR. ELEV.	BEARING STRENGTH
04	045°	22°19'46.65"N 073°13'09.57"E	128	53/F/B/W/T
22	225°	22°20'39.15"N 073°14'04.62"E	130	53/F/B/W/T

- DATUM:WGS-84
- ELEVATIONS IN FEET,
DIMENSIONS IN METER
- TAXIWAY 23M WIDE
- RWY BEARINGS ARE MAGNETIC



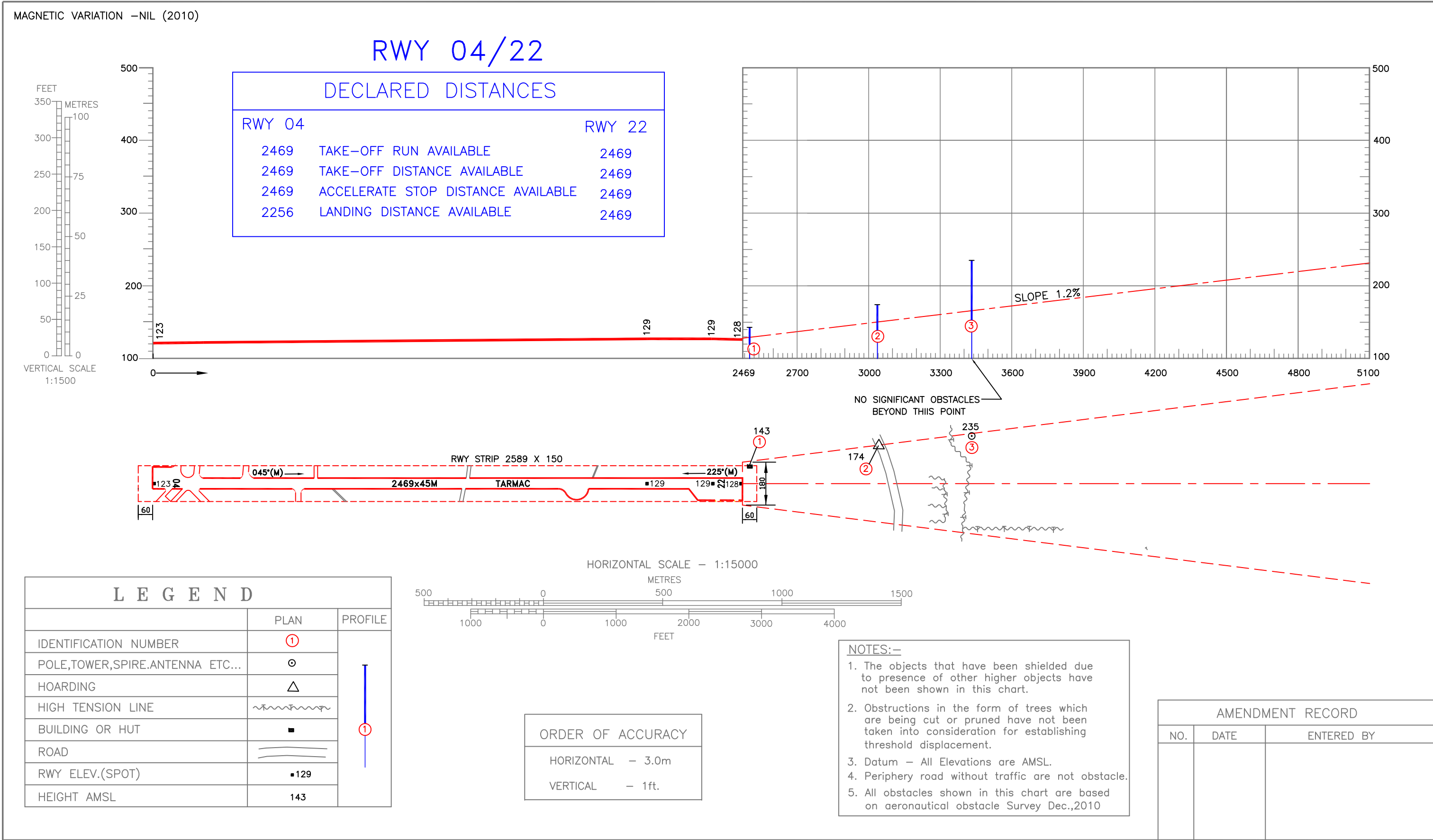
DATE OF AERONAUTICAL INFORMATION
DECEMBER 2017

ELEVATIONS IN FEET
ALL OTHER DIMENSIONS IN METRES

AERODROME OBSTACLE CHART
TYPE -A (OPERATING LIMITATIONS)

INDIA/VADODARA
VADODARA AIRPORT/RWY 04

CONSULT NOTAM FOR LATEST INFORMATION

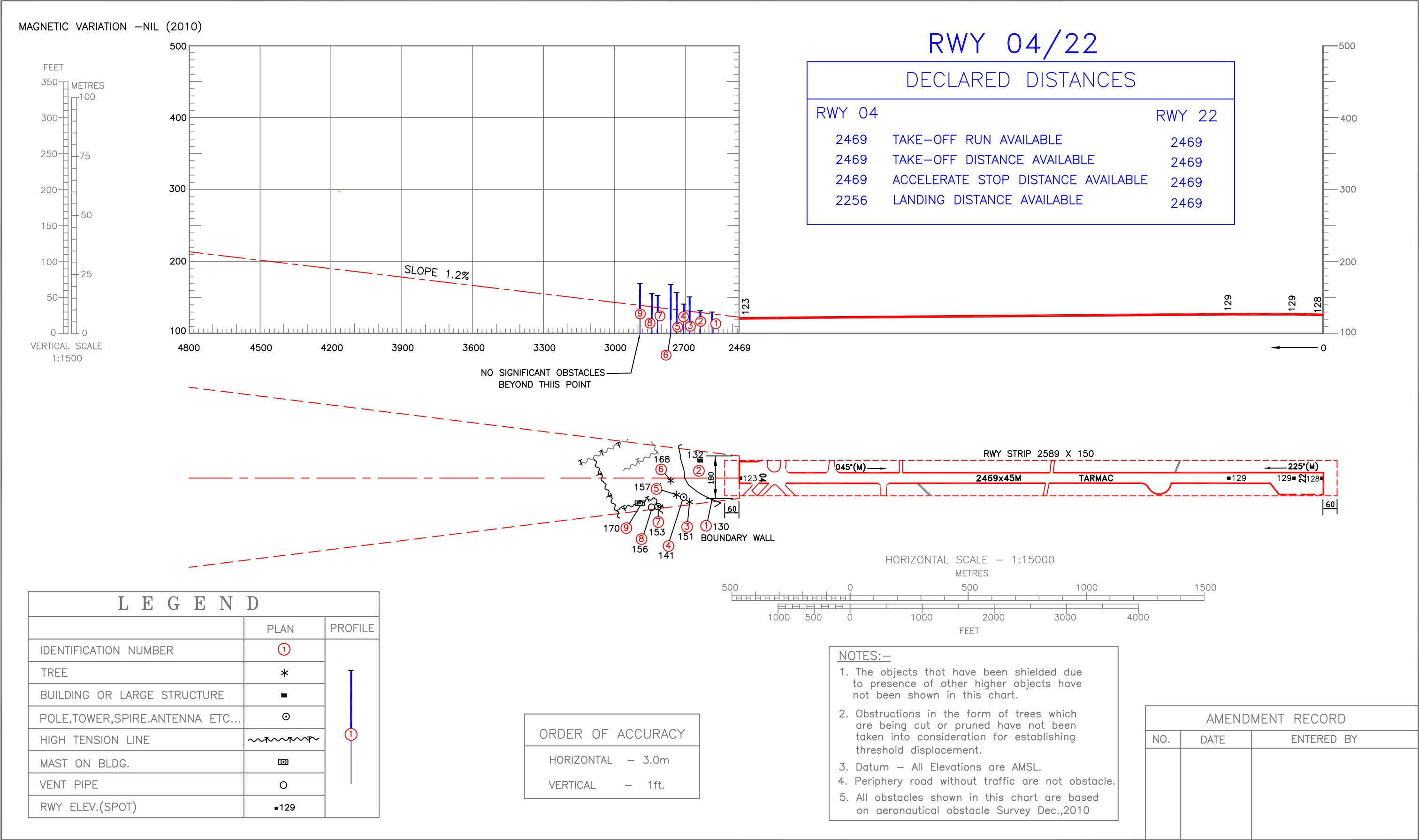


ELEVATIONS IN FEET
ALL OTHER DIMENSIONS IN METRES

AERODROME OBSTACLE CHART
TYPE -A (OPERATING LIMITATIONS)

INDIA/VADODARA
VADODARA AIRPORT/RWY 22

CONSULT NOTAM FOR LATEST INFORMATION



**INSTRUMENT
APPROACH
CHART****AERODROME ELEV. 132Ft**
HEIGHT RELATED TO
THR RWY 22 - ELEV. 130Ft**VADODARA(VABO)**
INDIA
ILS (Z) RWY 22

TWR 122.35

All radials and distances are from VOR (117.3 QZZ)
unless otherwise specified.
BEARING ARE MAGNETIC.
ALTITUDE,ELEVATIONS AND HEIGHTS IN FEET.
VAR 0°22' W 2010

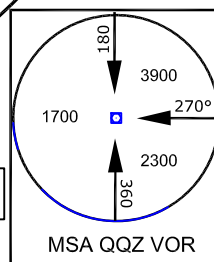
DME REQUIRED**Visual circling NORTH of
Rwy NOT permitted.****DVOR/DME 117.3**
QZZ
22° 19' 58.7"N
73° 13' 30.20"E**LLZ 110.5**
IVDD**NOTE**

1.ATC may clear with in
aerodrome control zone
aircraft arriving from sector
NW,SW,and SE on radials other
than the promulgated ATS
routes to join DME ARC
procedure at or above 1900ft.

CAUTION:
Hill with top elev. 2720
ft. on bearing 064°M
and 18NM from VOR.**GP-INOPERATIVE PROCEDURE**

FAF 5D(IVDD)
Altitude at FAF 1700ft
Descent Gradient 5.2%
MAPt 1D(IVDD)

SCALE
1 0 1 2 3 4 NM

**Speed restricted to 185kts IAS**
Max.during the procedure

Transition Altitude 4000

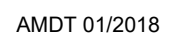
MISSED APPROACH

Climb straight ahead to 1700 ft.,Then
climbing turn LEFT to join NDB to
holding at 3200ft. or as instructed by
ATC.

ILS RDH 50

NAUTICAL MILES FROM THR RWY 22

O C A (H)			Distance (ILS-DME)/Altitude information for G.P.inoperative procedure										
CATEGORY OF AIRCRAFT	A/B	C/D	Distance (NM)	5D	4D	3D	2D						
STRAIGHT IN	390(260)	410(280)	Altitude (FT)	1700	1410	1090	770						
CIRCLING	720(588)	1030(898)	Rate of Descent /Ground speed information										
GP in - op Procedure :													
STRAIGHT IN	560(430)	560(430)	Ground Speed (kt.)	80	100	120	140	160	180				
CIRCLING	720(588)	1030(898)	Rate of descent (ft./min.)	420	525	630	735	845	950				
DRG. NO. AAI/05 -IALC/96/19-07-2018													

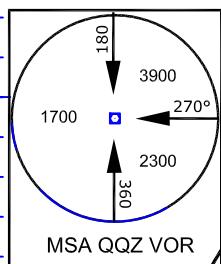


INSTRUMENT
APPROACH
CHARTAERODROME ELEV. 132Ft
HEIGHT RELATED TO
THR RWY 04 - ELEV. 128FtVADODARA(VABO)
INDIA
VOR RWY 04

TWR 122.35

All radials and distances are from VOR (117.3 QZ)
BEARING ARE MAGNETIC.
ALTITUDE, ELEVATIONS AND HEIGHTS IN FEET.
VAR 0°22' W 2010

DME REQUIRED

Visual circling NORTH of
Rwy NOT permitted.

DVOR/DME 117.3
QZ
22° 19' 58.7"N
73° 13' 30.20"E

NOTE

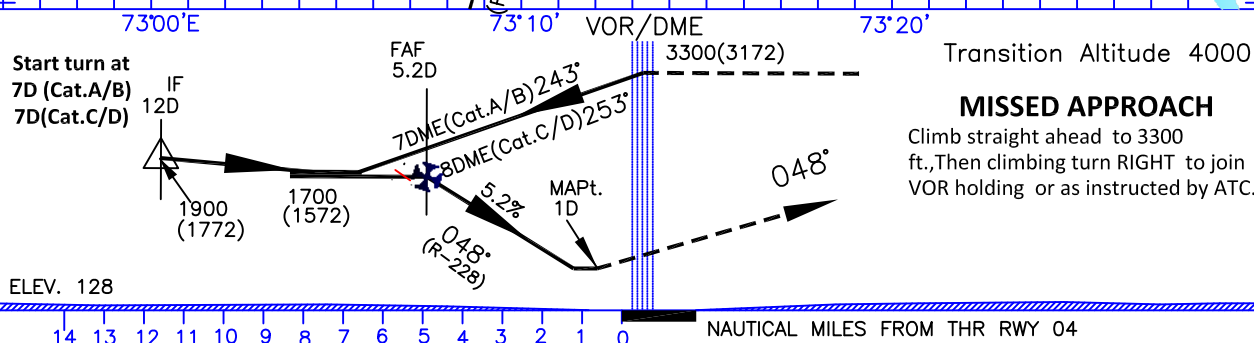
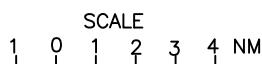
1. ATC may clear with in
aerodrome control zone
aircraft arriving from sector
NW, SW, and SE on radials other
than the promulgated ATS
routes to join DME ARC
procedure at or above 1900ft.

CAUTION:

Hill with top elev. 2720
ft. on bearing 064°M
and 18NM from VOR.

Note:

Simultaneous holding over VOR DME
fix & over VOR at same level is not
permitted.

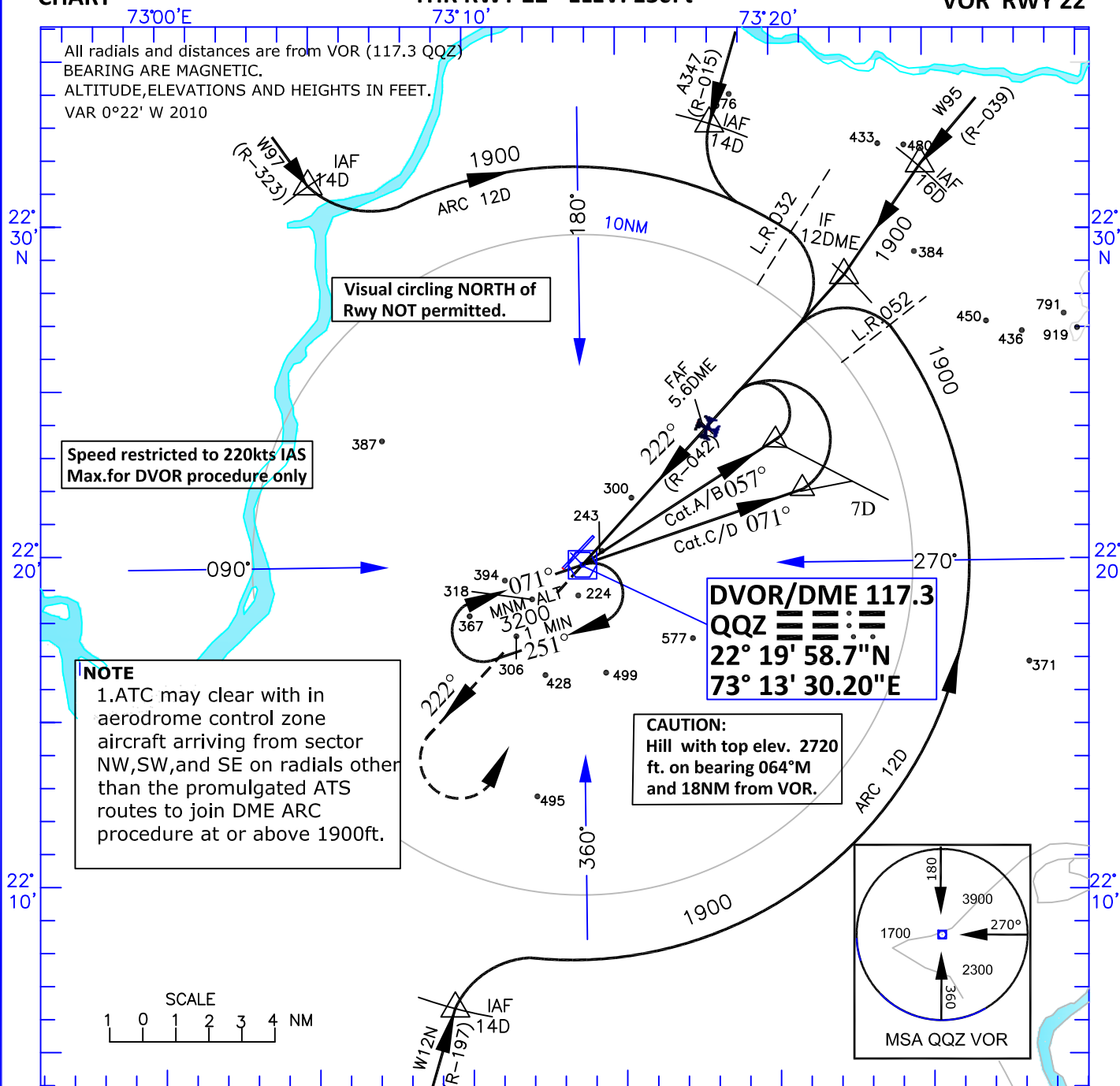


OCA(H)			Distance Altitude information					
CATEGORY OF AIRCRAFT	A/B	C/D	Distance(VORDME) NM	5.2D	5D	4D	3D	2D
STRAIGHT-IN	620(492)	620(492)	Altitude (ft.)	1700	1650	1330	1010	700
VISUAL CIRCLING	720(588)	1030(898)	Ground Speed / Rate of Descent information.					
			Ground Speed (kt)	80	100	120	140	160
			Rate of Descent (ft/min)	420	525	630	735	840

DRG. NO. AAI/16-IALC/08/19.07.2018

**INSTRUMENT
APPROACH
CHART****AERODROME ELEV. 132Ft**
HEIGHT RELATED TO
THR RWY 22 - ELEV. 130Ft**VADODARA(VABO)**

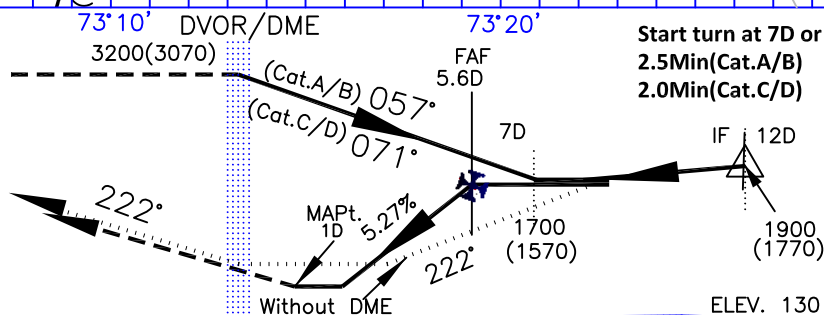
INDIA

VOR RWY 22

Transition Altitude 4000

MISSED APPROACH

Climb straight ahead to 1700 ft., Then climbing turn LEFT to join DVOR holding at 3200ft. or as instructed by ATC.



NAUTICAL MILES FROM THR RWY 22

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14

OCA(H)			Distance Altitude information					
CATEGORY OF AIRCRAFT	A/B	C/D	Distance(VORDME) NM	5.6D	5D	4D	3D	
STRAIGHT-IN	With FAF	590(458)	590(458)	1700	1510	1190	870	
	Without FAF	720(588)	720(588)					
VISUAL CIRCLING			Ground Speed / Rate of Descent information.					
			Ground Speed (kts)	80	100	120	140	160 180
			Rate of Descent (ft/min)	425	535	640	745	855 960
DRG.NO. AAI/15-IALC/04/19-07-2018								