

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

VARK - RAJKOT / DOMESTIC

VARK AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	Aerodrome reference point coordinates and its site	221834N 0704646E 356 DEG/40M From Intersection of RWY 05/23 and 14/32.
2	Direction and distance of aerodrome reference point from the center of the city or town which the aerodrome serves	090 DEG/3KM from Rajkot
3	Aerodrome elevation and reference temperature	441 FT / 41.0 DEG C
4	Magnetic variation, date of information and annual change	0.25 DEG W (2010) /0.033 DEG E
5	Name of aerodrome operator, address, telephone, telefax, e-mail address, AFS address, website (if available)	Airports Authority of India, Rajkot Airport, Rajkot -360006, Telephone: +91-281-2451849 Fax: +91-281-2479610 +91-281-2453009 AFS: VARKYDYX Email: apd_vark@aai.aero
6	Types of traffic permitted (IFR/VFR)	IFR/VFR
7	Remarks	NIL

VARK 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 current NOTAM for ATS HR
8	Fuelling	As ATS
9	Handling	As ATS
10	Security	As ATS
11	De-icing	NIL
12	Remarks	1. Outside of ATS hour services are available O/R with 24 HR PN to AD. 2. The ATS approved hourly RWY TFC handling capacity is as follows: Max number of ARR and DEP -04 (one CAT-C type and one CAT-B type of ACFT can be accommodated at a time as per the availability of bay) Max number of arrivals only - 02 Max number of departures only - 02

VARK AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	NIL
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2	Fuel and Oil types	ATF, Jet A1 between 0030-1630 UTC DLY. One HR PN beyond these timings.
3	Fuelling facilities and capacity	Storage capacity 210 KL, 2 Bowsers/ capacity 9 KL & 6 KL
4	De-icing facilities	NIL
5	Hangar space for visiting aircraft	NIL
6	Repair facilities for visiting aircraft	NIL
7	Remarks	NIL

VARK 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
4	Medical Facilities	First aid at AD. Hospital in the city.
5	Bank and post office at or in the vicinity of aerodrome	Banks: In the city. Post office: In the city.
6	Tourist office	In the city.
7	Remarks	NIL

VARK AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	Aerodrome category for fire fighting	Within ATS HR: CAT-6
2	Rescue equipment	AVBL as per category
3	Capability for removal of disabled aircraft	NIL
4	Remarks	NIL

VARK AD 2.7 SEASONAL AVAILABILITY CLEARING

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

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

1	Designation, surface and strength of aprons	Designator: APRON Surface: Asphalt Strength: PCN 98/F/C/W/T
2	Designation, width, surface and strength of taxiways	Designator: TWY Width: 23 M Surface: Asphalt Strength: PCN 98/F/C/W/T
3	Location and elevation of altimeter checkpoints	Location At apron Elevation 432.3 FT
4	Location of VOR checkpoints	NIL
5	Position of INS checkpoints	NIL
6	Remarks	NIL

VARK 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,
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2	Runway and taxiway markings and lights	<p>RWY Markings: Designation, THR, TDZ, Centreline, Aiming Point, Edge Lights: THR, Edge, End.</p> <p>TWY Marking: Marked-Centreline, Holding Position, Edge. Lights: Edge</p>
3	Stop bars (if any)	NIL
4	Remarks	NIL

VARK 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
23/TKOF 05/APCH	OTHER	221756.0N 0704732.0E	984 FT	LGTD	TV TX MAST
23/TKOF 05/APCH	TREE	221806.2N 0704614.7E	472 FT	NIL	TREE
23/TKOF 05/APCH	POLE	221804.4N 0704616.6E	466 FT	NIL	ELECT.POLE
23/TKOF 05/APCH	TREE	221803.6N 0704612.3E	471 FT	NIL	GP OF TREES
23/TKOF 05/APCH	OTHER	221806.1N 0704618.3E	465 FT	NIL	ELECT.LINE
23/TKOF 05/APCH	POLE	221807.9N 0704620.8E	457 FT	NIL	ELECT.POLE
23/TKOF 05/APCH	OTHER	221858.3N 0704717.5E	442 FT	NIL	ELECT.LINE
23/TKOF 05/APCH	OTHER	221856.9N 0704718.9E	447 FT	NIL	ELECT.LINE
23/TKOF 05/APCH	POLE	221901.5N 0704713.4E	443 FT	NIL	ELECT.POLE
23/TKOF 05/APCH	POLE	221807.1N 0704615.2E	461 FT	NIL	ELECT.POLE
23/TKOF 05/APCH	TREE	221807.2N 0704620.9E	469 FT	NIL	TREE
23/TKOF 05/APCH	POLE	221806.7N 0704620.4E	467 FT	NIL	ELECT.POLE
23/TKOF 05/APCH	WALL	221815.3N 0704620.2E	444 FT	NIL	BOUN.WALL
23/TKOF 05/APCH	POLE	221807.1N 0704616.2E	462 FT	NIL	ELECT.POLE
23/TKOF 05/APCH	OTHER	221806.1N 0704618.3E	465 FT	NIL	ELECT.LINE
23/TKOF 05/APCH	BUILDING	221812.6N 0704616.9E	453 FT	NIL	HOUSE
23/TKOF 05/APCH	POLE	221812.9N 0704617.2E	461 FT	NIL	ELECT.POLE
23/TKOF 05/APCH	OTHER	221808.1N 0704612.8E	463 FT	NIL	ELECT.LINE

VARK AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Name of the associated meteorological office	Rajkot (class-3)
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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	Ahmedabad 9HR
4	Availability of the trend forecast for the aerodrome and interval of issuance	NIL
5	Information on how briefing and/or consultation is provided	NIL
6	Types of flight documentation supplied and language(s) used in flight documentation	Tabular form English
7	Charts and other information displayed or available for briefing or consultation	NIL
8	Supplementary equipment available for providing information on meteorological conditions, e.g. weather radar and receiver for satellite images;	Telephone
9	The air traffic services unit(s) provided with meteorological information	VARK Rajkot ATC and ACS
10	Additional information, e.g. concerning any limitation of service.	Documentation provided O/R. WDI Avbl. and lighted

VARK 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
05	47.30 DEG	1846 x 45 M	98/F/C/W/T	THR: 221815.79N 0704626.10E
23	227.30 DEG	1846 x 45 M	98/F/C/W/T	THR: 221852.23N 0704708.30E

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: 438.0FT TDZ: 438.4FT	0.27%	NIL	NIL	1962 x 150 M
THR: 423.2FT TDZ: 429.0FT	0.27%	NIL	NIL	1962 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
		---	RWY 14/32 Unserviceable
	N/A	---	N/A

VARK 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
05	1842	1842	1842	1742	---
23	1842	1842	1842	1742	---

VARK 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
05	SALS 250 M LIH	Green	PAPI LEFT/3.00 DEG MEHT (60.30FT)	NIL
23	SALS 210 M LIH	Green	PAPI LEFT/3.00 DEG MEHT (65.09FT)	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
NIL	1846 M 60 M White LIH	Red		NIL
NIL	1846 M 60 M White LIH	Red		NIL

VARK AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	Location, characteristics and hours of operation of aerodrome beacon/identification beacon (if any)	ABN	At Tower Building, FLG W&G EV2SEC As ATS HR
		IBN	NIL
2	Location and lighting (if any) of anemometer/landing direction indicator;	LDI	165M EAST OF ARP,lighted
		Anemometer	On tower building,not lighted
3	Taxiway edge and taxiway centre line lights;	Edge	Lighted
		Centre Line	NIL
4	Secondary power supply including switch-over time;	Secondary Power supply to all lighting at AD. Switch-over time: 30SEC.	
5	Remarks	NIL	

VARK 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	--
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	--

VARK AD 2.17 AIR TRAFFIC SERVICE AIRSPACE

1	Airspace designation, geographical coordinates and lateral limits	CTR: Area bounded by lines joining points 214900N 0705240E; 220420N 0704241E then along the clockwise arc of a circle of 15NM radius centred on DVOR RKT (221847N 0704642E) to 223100N 0703700E; 224815N 0703900E; 224830N 0705000E then along the clockwise arc of a circle of 30NM radius centred on DVOR RKT (221847N 0704642E) to point of origin.
2	Vertical limits	FL 145
3	Airspace classification	D
4	Call sign and language(s) of the air traffic services unit providing service;	Rajkot Tower, English
5	Transition altitude	4000 FT
6	Hours of applicability	HO
7	Remarks	NIL

VARK AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	2	3	4
TWR	Rajkot Tower	122.100 MHZ	
TWR	Rajkot Tower	124.300 MHZ	
ATIS	Rajkot Information	128.800 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	6	7
	As ATS	NIL
	As ATS	(Alt. Freq)
		NIL

VARK 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 23	IRAJ	110.900 MHz	As ATS
GP 23	IRAJ	330.800 MHz	As ATS
DME ILS 23	IRAJ	CH46X	As ATS
DVOR/DME	RKT	115.400 MHz CH101X	As ATS
NDB	RK	329 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
221809.4N 0704618.7E			
221848.2N 0704658.6E			1. 3 DEG 2. Glide Path not usable below 300FT.
221848.5N 0704659.2E	444 FT		Collocated with GP23
221847.1N 0704641.7E	459 FT		
221839.1N 0704710.8E			

VARK AD 2.20 LOCAL AERODROME REGULATIONS

VARK AD 2.21 NOISE ABATEMENT PROCEDURES

VARK AD 2.22 FLIGHT PROCEDURES

VARK AD 2.23 ADDITIONAL INFORMATION

VARK AD 2.24 CHARTS RELATED TO AN AERODROME

1. Aerodrome Obstacle Chart Type –A, RWY 05
2. Aerodrome Obstacle Chart Type –A, RWY 23
3. ILS (Z) RWY 23
4. ILS (Y) RWY 23
5. VOR(Z) RWY 23

AERODROME OBSTACLE CHART

TYPE -A (OPERATING LIMITATIONS)

INDIA/RAJKOT

RAJKOT AIRPORT/RWY 05

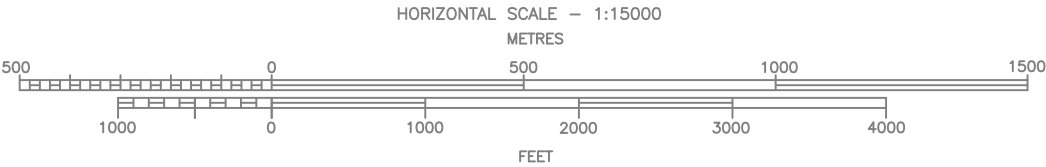
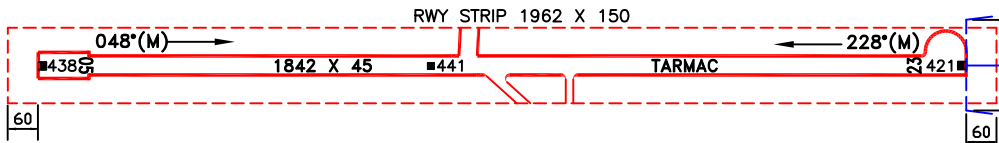
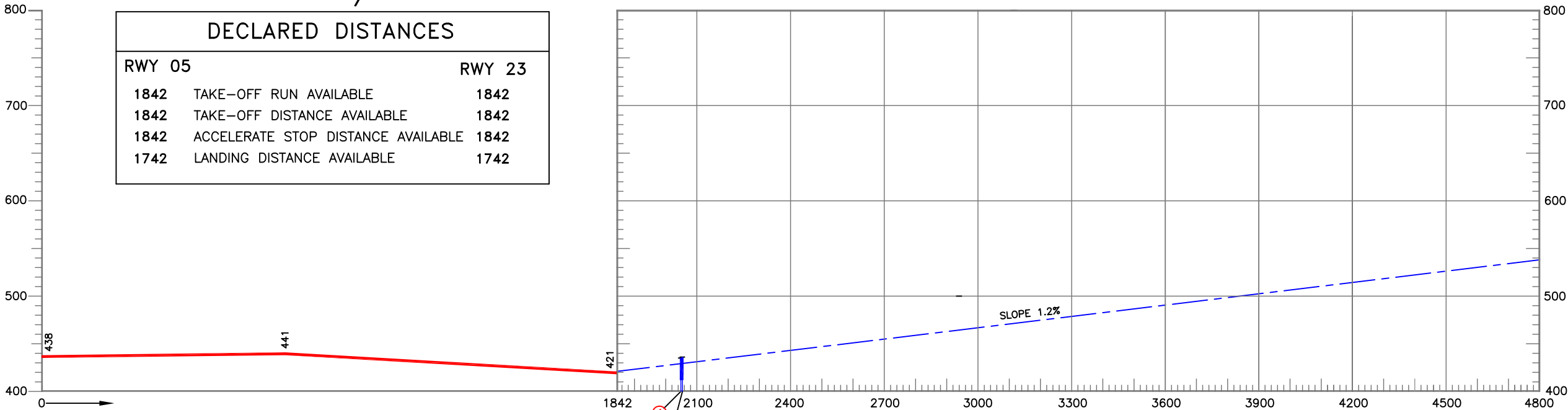
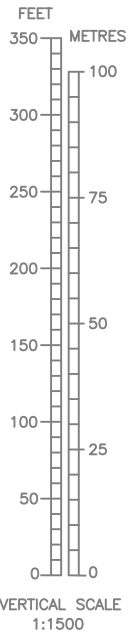
ELEVATIONS IN FEET
ALL OTHER DIMENSIONS IN METRES

MAGNETIC VARIATION 0° (2010)

RWY 05/23

DECLARED DISTANCES

RWY 05		RWY 23
1842	TAKE-OFF RUN AVAILABLE	1842
1842	TAKE-OFF DISTANCE AVAILABLE	1842
1842	ACCELERATE STOP DISTANCE AVAILABLE	1842
1742	LANDING DISTANCE AVAILABLE	1742



LEGEND		
	PLAN	PROFILE
IDENTIFICATION NUMBER	①	
POLE,TOWER,SPIRE,ANTENNA ETC...	⊙	
TREE OR SHRUB	*	
RWY ELEV.(SPOT)	■441	

ORDER OF ACCURACY	
HORIZONTAL	— 3.0m
VERTICAL	— 1ft.

NOTES:—	
1.	The objects that have been shielded due to presence of other higher objects have not been shown in this chart.
2.	Datum — All Elevations are AMSL.
3.	Periphery road without traffic is no obstacle.
4.	Consult Notam for latest information.
5.	Rwy directions rounded to nearest degree.(Magnetic) (In degree minute : Rwy 05/23 = 047°33'/227°33') (taken upto 2010)
6.	All obstacles shown in this chart are based on aeronautical obstacle Survey April 2011.

AMENDMENT RECORD		
NO.	DATE	ENTERED BY
1.	23.06.15	Rwy Bearing amended given by Sur. sec. R.S.

AERONAUTICAL INFORMATION UPTO — JUNE 2015
वैमानिक सूचना : जून 2015 तक

COMPILED BY— CARTO-ACC, AIRPORTS AUTHORITY OF INDIA
संग्रहित किया : कार्टो- वै.मा.प्र., भारतीय विमानपत्तन प्राधिकरण

CHART No. AAI/13-OBS/CARTO-ACC/2014
चर्ट सं भा.विप्रा./13-अव./वै.मा.प्र.-कर्तव्य/2014

AERODROME OBSTACLE CHART

TYPE -A (OPERATING LIMITATIONS)

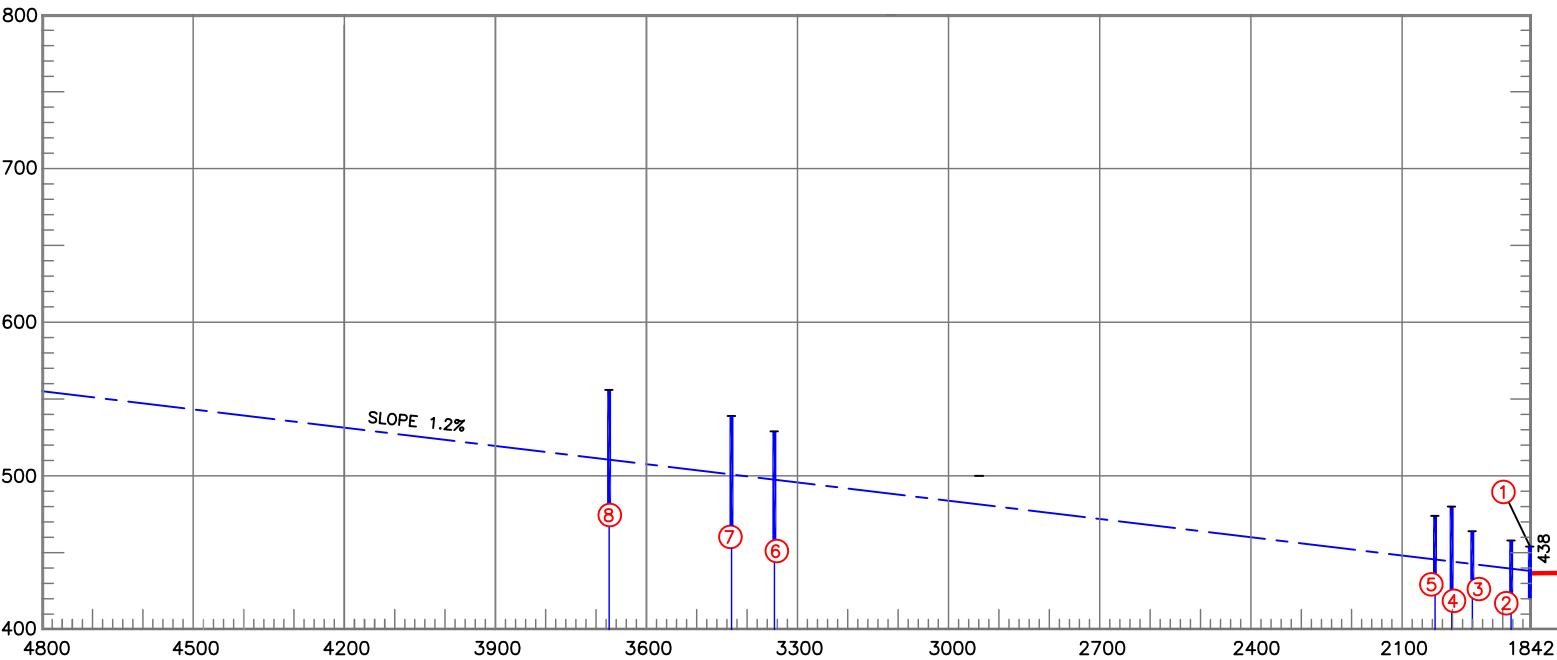
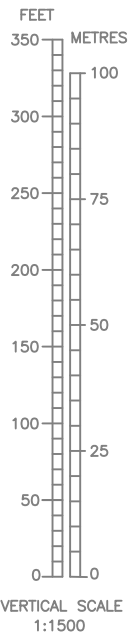
INDIA/RAJKOT

RAJKOT AIRPORT/RWY 23

ELEVATIONS IN FEET

ALL OTHER DIMENSIONS IN METRES

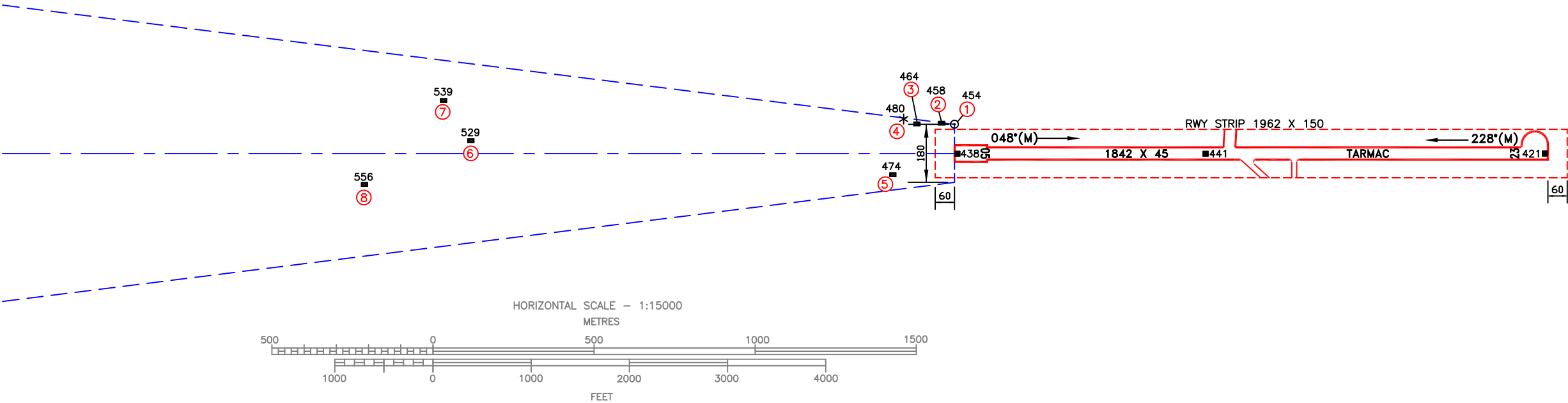
MAGNETIC VARIATION 0° (2010)



RWY 05/23

DECLARED DISTANCES

RWY 05		RWY 23
1842	TAKE-OFF RUN AVAILABLE	1842
1842	TAKE-OFF DISTANCE AVAILABLE	1842
1842	ACCELERATE STOP DISTANCE AVAILABLE	1842
1742	LANDING DISTANCE AVAILABLE	1742



LEGEND		
	PLAN	PROFILE
IDENTIFICATION NUMBER	①	①
TREE OR SHRUB	*	
BUILDING OR LARGE STRUCTURE	■	
RWY ELEV.(SPOT)	■441	

ORDER OF ACCURACY
HORIZONTAL - 3.0m
VERTICAL - 1ft.

NOTES:-
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2. Datum - All Elevations are AMSL.
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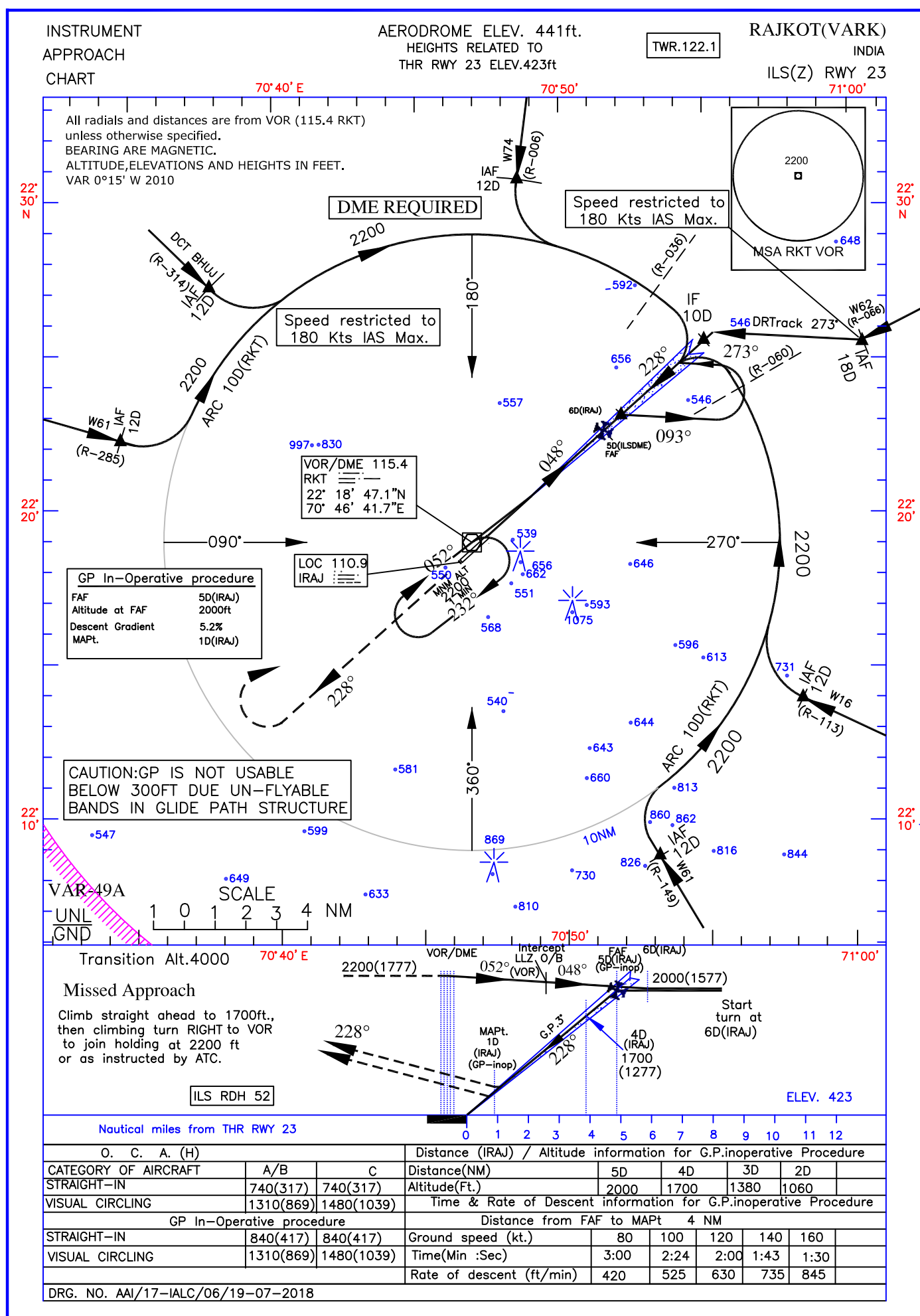
वैमानिक सूचना : जून 2015 तक

COMPILED BY- CARTO-ACC, AIRPORTS AUTHORITY OF INDIA

संग्रहित किया : कार्टो- वै.मा.प्र., भारतीय विमानपत्तन प्राधिकरण

CHART No. AAI/14-OBS/CARTO-ACC/2014

चार्ट सं. भा.वि.प्रा./14-अव./वै.मा.प्र.-कार्टो/2014



INSTRUMENT
APPROACH
CHART

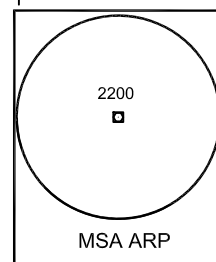
AERODROME ELEV. 441ft.
HEIGHTS RELATED TO
THR RWY 23 ELEV.423ft

TWR.122.1

RAJKOT(VARK)
INDIA
ILS (Y) RWY 23
71°00'

BEARING ARE MAGNETIC.
ALTITUDE,ELEVATIONS AND HEIGHTS IN FEET.
VAR 0°15' W 2010

DME REQUIRED



GP In-Operative procedure
FAF 5D(IRAJ)
Altitude at FAF 2000ft
Descent Gradient 5.2%
MAPt. 1D(IRAJ)

NDB 329
RK
22° 18' 39.1"N
70° 47' 10.8"E

LOC 110.9
IRAJ

CAUTION:GP IS NOT USABLE
BELOW 300FT DUE UN-FLYABLE
BANDS IN GLIDE PATH STRUCTURE

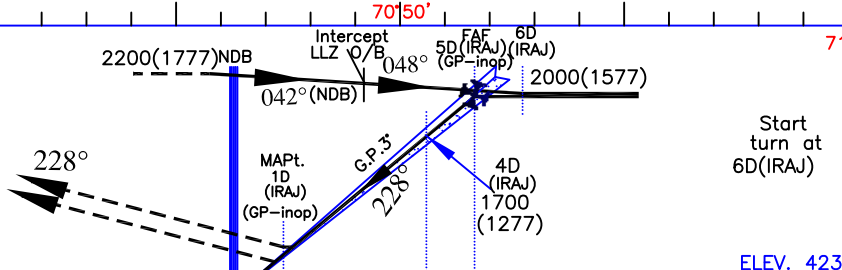
VAR-49A
UNL
GND
SCALE
1 0 1 2 3 4 NM

Transition Alt.4000

Missed Approach

Climb straight ahead to 1700ft.,
then climbing turn RIGHT to
NDB to join holding at 2200 ft
or as instructed by ATC.

ILS RDH 52



Nautical miles from THR RWY 23

O C A(H)			Distance (IRAJ) / Altitude information for G.P.inoperative Procedure					
CATEGORY OF AIRCRAFT	A/B	C	Distance(NM)	5D	4D	3D	2D	
STRAIGHT-IN	740(317)	740(317)		2000	1700	1380	1060	
VISUAL CIRCLING	1310(869)	1480(1039)	Time & Rate of Descent information for G.P.inoperative Procedure					
GP In-Operative procedure			Distance from FAF to MAPt - 4 NM					
STRAIGHT-IN	840(417)	840(417)	Ground speed (kt.)	80	100	120	140	160
VISUAL CIRCLING	1310(869)	1480(1039)	Time(Min :Sec)	3:00	2:24	2:00	1:43	1:30
			Rate of descent (ft/min)	420	525	630	735	845

DRG. NO. AAI/17-IALC/06/19-07-2018

