

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

VERC - BIRSA MUNDA AIRPORT, RANCHI / DOMESTIC

**VERC AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA**

1	Aerodrome reference point coordinates and its site	231851N 0851916E 134.75 DEG/1340 M from physical extremity RWY 13
2	Direction and distance of aerodrome reference point from the center of the city or town which the aerodrome serves	198 DEG, 05 KM from Ranchi city.
3	Aerodrome elevation and reference temperature	2148 FT / 38.0 DEG C
4	Magnetic variation, date of information and annual change	0.42 DEG W (2010) /0.016 DEG E
5	Name of aerodrome operator, address, telephone, telefax, e-mail address, AFS address, website (if available)	The Airport Director, Airports Authority of India, Birsa Munda Airport, Ranchi -834002,  Telephone: +91-651-6450327 +91-9431106570 Fax: +91-651-2250500 AFS: VERCYHYX Email: apd_verc@AAIAERO
6	Types of traffic permitted (IFR/VFR)	IFR/VFR
7	Remarks	NIL

**VERC 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	H24
5	ATS reporting office (ARO)	H24
6	MET Briefing office	H24
7	Air Traffic Service	H24
8	Fuelling	H24
9	Handling	H24
10	Security	H24
11	De-icing	NIL
12	Remarks	Outside of ATS hour's services are available O/R with 24 HR PN to AD.  ATS approved hourly runway traffic handling capacity Maximum number of arrival and departure- 12 Maximum number of arrival only – 06 Maximum number of departure only -10

**VERC AD 2.4 HANDLING SERVICES AND FACILITIES**

1	Cargo-handling facilities	Nil
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2	Fuel and Oil types	ATF
3	Fuelling facilities and capacity	47000 Litres, 10 Litres/Sec
4	De-icing facilities	NIL
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	NIL

**VERC AD 2.5 PASSENGER FACILITIES**

1	Hotel(s) at or in the vicinity of aerodrome	In the city & 1 KM from the Airport
2	Restaurant(s) at or in the vicinity of aerodrome	At AD and in the city
3	Transportation possibilities	Taxi /Auto Rickshaw
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 & ATM at AD Post office: at AD
6	Tourist office	at AD
7	Remarks	NIL

**VERC AD 2.6 RESCUE AND FIRE FIGHTING SERVICES**

1	Aerodrome category for fire fighting	Within ATS HR: CAT-7
2	Rescue equipment	3 Ambulances & 3 CFT
3	Capability for removal of disabled aircraft	Available
4	Remarks	Disabled aircraft removal provided by individual airlines operator

**VERC AD 2.7 SEASONAL AVAILABILITY CLEARING**

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

**VERC AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA**

1	Designation, surface and strength of aprons	Designator: Apron I Surface: Concrete Strength: PCN 66/R/C/W/T  Designator: Apron II Surface: Asphalt Strength: PCN 61/F/C/X/T  Designator: Apron III Surface: Concrete Strength: PCN 24/R/C/W/T
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2	Designation, width, surface and strength of taxiways	<p>Designator: A Width: 15 M Surface: Concrete Strength: PCN 24/R/C/W/T</p> <p>Designator: B Width: 15 M Surface: Concrete Strength: PCN 24/R/C/W/T</p> <p>Designator: C Width: 23 M Surface: Asphalt Strength: PCN 61/F/C/X/T</p> <p>Designator: D Width: 23 M Surface: Asphalt Strength: PCN 61/F/C/X/T</p> <p>Designator: E Width: 15 M Surface: Concrete Strength: PCN 24/R/C/W/T</p> <p>Designator: F Width: 15 M Surface: Concrete Strength: PCN 24/R/C/W/T</p> <p>Designator: G Width: 15 M Surface: Concrete Strength: PCN 24/R/C/W/T</p>
3	Location and elevation of altimeter checkpoints	<p>On Apron -I on parking stand 1, 2, 3 &amp; 4.</p> <p>Parking Stand Nose wheel coordinates Elevation (FT)</p> <p>1. 231900.80N 0851925.50E 2122.94</p> <p>2. 231859.80N 0851926.70E 2121.47</p> <p>3. 231859.00N 0851927.70E 2120.06</p> <p>4. 231858.00N 0851928.90E 2118.68</p>
4	Location of VOR checkpoints	TWY C Coords: 231954.40N 0851921.80E
5	Position of INS checkpoints	

6	Remarks	1.Isolation Bay available 207 M from TWY B centre line on TWY F  2.Apron -I available with 04 Parking Stand upto A321 (CAT-C-Aircraft)  3.Apron -II available with 01 Parking Stand upto CAT-B Type Aircraft.  4.Portion of Taxiway 'F' between Taxiway 'C' and old fire station not available.
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**VERC AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS**

1	Use of aircraft stand identification signs, taxiway guidelines and visual docking/parking guidance system at aircraft stands	Taxiing guidance provided on R/T, Guidelines at Apron
2	Runway and taxiway markings and lights	RWY  Markings Designation, THR, TDZ, Centreline, Edge, End Lights THR, Edge, End  TWY  Marking Centreline, Holding Positions at TWY C only. Lights TWY C & D Edge light
3	Stop bars (if any)	Nil
4	Remarks	APRON II edge lights AVBL.

**VERC 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
31/TKOF 13/APCH	OTHER	231927.9N 0851833.9E	2171 FT	NIL	Airport boundary wall with fencing on top
31/TKOF 13/APCH	OTHER	231928.9N 0851833.7E	2175 FT	NIL	D. SINHA Market
31/TKOF 13/APCH	BUILDING	231932.5N 0851831.9E	2179 FT	NIL	Building
31/TKOF 13/APCH	OTHER	231928.4N 0851833.0E	2172 FT	NIL	JAI DEE Auto Shop
31/TKOF 13/APCH	POLE	231928.2N 0851833.0E	2179 FT	NIL	Electric Pole
31/TKOF 13/APCH	OTHER	231928.2N 0851833.6E	2177 FT	NIL	Mobile Road Traffic
31/TKOF 13/APCH	TREE	231926.4N 0851827.8E	2208 FT	NIL	Tree
31/TKOF 13/APCH	OTHER	231925.8N 0851833.3E	2170 FT	NIL	Localizer Hut
31/TKOF 13/APCH	POLE	231927.6N 0851831.8E	2185 FT	NIL	Electric Pole
31/TKOF 13/APCH	ANTENNA	231927.9N 0851834.5E	2166 FT	NIL	Localizer Antenna (L-Top) (Lighted)

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
31/TKOF 13/APCH	BUILDING	231926.3N 0851824.6E	2193 FT	NIL	House
31/TKOF 13/APCH	BUILDING	231925.9N 0851827.2E	2197 FT	NIL	House
31/TKOF 13/APCH	BUILDING	231926.9N 0851828.6E	2196 FT	NIL	House
31/TKOF 13/APCH	BUILDING	231926.9N 0851829.3E	2194 FT	NIL	House
31/TKOF 13/APCH	BUILDING	231927.9N 0851828.8E	2196 FT	NIL	House
31/TKOF 13/APCH	BUILDING	231927.5N 0851830.7E	2186 FT	NIL	House
31/TKOF 13/APCH	TREE	231930.4N 0851832.7E	2206 FT	NIL	Tree
31/TKOF 13/APCH	POLE	231926.0N 0851828.8E	2183 FT	NIL	Electric Pole
31/TKOF 13/APCH	POLE	231927.0N 0851829.4E	2190 FT	NIL	Electric Pole
31/TKOF 13/APCH	OTHER	231926.0N 0851829.9E	2181 FT	NIL	Mobile Road Traffic
31/TKOF 13/APCH	POLE	231927.0N 0851830.9E	2186 FT	NIL	Electric Pole
31/TKOF 13/APCH	BUILDING	231932.8N 0851836.5E	2178 FT	NIL	House
31/TKOF 13/APCH	TREE	231928.4N 0851833.1E	2188 FT	NIL	Tree
31/TKOF 13/APCH	POLE	231928.6N 0851833.4E	2182 FT	NIL	Electric Pole
31/TKOF 13/APCH	BUILDING	231935.3N 0851835.1E	2176 FT	NIL	Building
31/TKOF 13/APCH	OTHER	231925.5N 0851837.0E	2160 FT	NIL	Localizer Monitor Ant.
31/TKOF 13/APCH	OTHER	231930.7N 0851836.8E	2169 FT	NIL	Mobile Road Traffic
31/TKOF 13/APCH	OTHER	231910.2N 0851848.5E	2158 FT	NIL	Light Post
31/TKOF 13/APCH	OTHER	231915.0N 0851842.6E	2164 FT	NIL	Light Post
31/TKOF 13/APCH	OTHER	231918.9N 0851837.7E	2171 FT	NIL	Light Post
31/TKOF 13/APCH	OTHER	231922.7N 0851832.7E	2179 FT	NIL	Light Post
13/APCH	OTHER	231925.2N 0851829.1E	2184 FT	NIL	Light Post
31/TKOF 13/APCH	OTHER	231925.0N 0851829.8E	2171 FT	NIL	Security Hut
31/TKOF 13/APCH	OTHER	231925.2N 0851829.1E	2177 FT	NIL	Security Hut
31/TKOF 13/APCH	OTHER	231927.5N 0851842.8E	2172 FT	NIL	Light Post
31/TKOF 13/APCH	OTHER	231928.2N 0851841.6E	2173 FT	NIL	Light Post
31/TKOF 13/APCH	OTHER	231929.2N 0851840.5E	2174 FT	NIL	Light Post

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
31/TKOF 13/APCH	OTHER	231926.7N 0851841.5E	2160 FT	NIL	Security Hut
31/TKOF 13/APCH	OTHER	231926.0N 0851833.5E	2174	NIL	Localizer Mast
31/TKOF 13/APCH	TREE	231929.6N 0851835.4E	2176 FT	NIL	Tree
31/TKOF 13/APCH	TREE	231926.9N 0851829.9E	2197 FT	NIL	Tree
31/TKOF 13/APCH	ANTENNA	231932.7N 0851830.5E	2181 FT	NIL	Antenna Top on Building
31/TKOF 13/APCH	BUILDING	231931.9N 0851837.1E	2178 FT	NIL	Building (W.T. Top)
31/TKOF 13/APCH	BUILDING	231924.3N 0851829.4E	2175 FT	NIL	Building (Public convenience)
31/TKOF 13/APCH	OTHER	231929.6N 0851837.5E	2173 FT	NIL	Mobile Road Traffic
31/APCH 13/TKOF	TREE	231815.7N 0851957.3E	2116 FT	NIL	Group of Trees
31/APCH 13/TKOF	TREE	231815.0N 0852005.7E	2116 FT	NIL	Group of Trees
31/APCH 13/TKOF	TREE	231819.9N 0852008.4E	2128 FT	NIL	Tree
31/APCH 13/TKOF	TREE	231812.4N 0851958.8E	2120 FT	NIL	Group of Trees
31/APCH 13/TKOF	TREE	231810.6N 0852003.1E	2118 FT	NIL	Tree
31/APCH 13/TKOF	TREE	231814.9N 0852001.1E	2121 FT	NIL	Group of Trees
31/APCH 13/TKOF	TREE	231821.4N 0852002.1E	2100 FT	NIL	Tree
31/APCH 13/TKOF	OTHER	231833.6N 0851949.0E	2097 FT	NIL	G.P. Hut
31/APCH 13/TKOF	OTHER	231833.5N 0851949.3E	2132 FT	NIL	G.P. Mast L/C Top
31/APCH 13/TKOF	ANTENNA	231833.2N 0851949.2E	2112 FT	NIL	GP/DME ANT.
31/APCH 13/TKOF	OTHER	231832.3N 0851950.9E	2098 FT	NIL	G.P. Monitor Ant.
31/APCH 13/TKOF	OTHER	231829.9N 0851941.3E	2108 FT	NIL	Light Post
31/APCH 13/TKOF	OTHER	231827.5N 0851944.1E	2102 FT	NIL	Light Post
31/APCH 13/TKOF	OTHER	231821.9N 0851951.5E	2093 FT	NIL	Light Post
31/APCH 13/TKOF	OTHER	231821.2N 0851952.3E	2091 FT	NIL	Security Hut
31/APCH 13/TKOF	OTHER	231821.6N 0851952.2E	2084 FT	NIL	Security Hut
31/APCH 13/TKOF	OTHER	231820.0N 0851953.7E	2083 FT	NIL	Airport boundary wall with fencing on top
31/APCH 13/TKOF	OTHER	231819.6N 0851955.4E	2087 FT	NIL	Mobile Road Traffic

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
31/APCH 13/TKOF	OTHER	231826.2N 0851957.3E	2087 FT	NIL	Mobile Road Traffic
31/APCH 13/TKOF	OTHER	231827.7N 0851958.0E	2082 FT	NIL	Airport wire fencing Top
31/APCH 13/TKOF	TREE	231813.5N 0852010.8E	2113 FT	NIL	Group of Trees
In circling area and at AD	OTHER	231900.8N 0851917.8E	2184 FT	NIL	Self-Radiating Mast
In circling area and at AD	POLE	231900.6N 0851919.4E	2184 FT	NIL	NDB Pole
In circling area and at AD	BUILDING	231859.0N 0851917.2E	2144 FT	NIL	Pump House
In circling area and at AD	OTHER	231853.6N 0851923.4E	2139 FT	NIL	WDI
In circling area and at AD	ANTENNA	231831.3N 0851936.7E	2130 FT	NIL	DVOR/DME ANT.
In circling area and at AD	ANTENNA	231831.3N 0851936.2E	2123 FT	NIL	DVOR Main Antenna
In circling area and at AD	POLE	231830.8N 0851934.6E	2156 FT	NIL	Pole
In circling area and at AD	OTHER	231838.9N 0851929.4E	2133 FT	NIL	Light Post
In circling area and at AD	OTHER	231838.7N 0851928.9E	2117 FT	NIL	Security Hut
In circling area and at AD	OTHER	231844.2N 0851921.8E	2134 FT	NIL	Light Post
In circling area and at AD	OTHER	231850.3N 0851913.5E	2135 FT	NIL	Security Hut
In circling area and at AD	OTHER	231850.7N 0851913.8E	2131 FT	NIL	Security Hut
In circling area and at AD	OTHER	231855.3N 0851907.3E	2147 FT	NIL	Light Post
In circling area and at AD	OTHER	231905.5N 0851854.0E	2144 FT	NIL	Security Hut
In circling area and at AD	BUILDING	231900.8N 0851852.9E	2207 FT	NIL	Building Landmark U/C
In circling area and at AD	TREE	231906.7N 0851850.3E	2205 FT	NIL	Group of Trees
In circling area and at AD	OTHER	231836.8N 0851932.5E	2130 FT	NIL	Security Hut
In circling area and at AD	TREE	231914.1N 0851841.8E	2204 FT	NIL	Group of Trees
In circling area and at AD	TREE	231919.2N 0851835.4E	2216 FT	NIL	Group of Trees
In circling area and at AD	BUILDING	231925.5N 0851823.8E	2195 FT	NIL	House
In circling area and at AD	TREE	231916.9N 0851839.4E	2214 FT	NIL	Group of Trees
In circling area and at AD	OTHER	231911.2N 0851840.8E	2204 FT	NIL	Hotel Birsa U/C
In circling area and at AD	TREE	231922.3N 0851831.3E	2213 FT	NIL	Group of Trees
In circling area and at AD	OTHER	231912.1N 0851831.9E	2276 FT	NIL	Cell Phone 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	BUILDING	231912.8N 0851837.7E	2225 FT	NIL	Trinity Apartments
In circling area and at AD	OTHER	231927.8N 0851844.1E	2171 FT	NIL	Light Post
In circling area and at AD	OTHER	231927.5N 0851843.1E	2165 FT	NIL	Security Hut
In circling area and at AD	BUILDING	231924.0N 0851828.1E	2180 FT	NIL	Temple
In circling area and at AD	OTHER	231924.3N 0851827.2E	2216 FT	NIL	Flood light Mast on Road Centre
In circling area and at AD	TREE	231817.3N 0851953.9E	2125 FT	NIL	Tree
In circling area and at AD	TREE	231823.6N 0852005.2E	2123 FT	NIL	Group of Trees
In circling area and at AD	TREE	231808.0N 0852002.3E	2126 FT	NIL	Tree
In circling area and at AD	TREE	231805.1N 0852004.2E	2133 FT	NIL	Group of Trees
In circling area and at AD	OTHER	231732.3N 0851752.8E	2331 FT	NIL	Chimney
In circling area and at AD	OTHER	231721.3N 0851740.8E	2397 FT	NIL	Chimney
In circling area and at AD	OTHER	231729.3N 0851723.1E	2400 FT	NIL	Chimney
In circling area and at AD	BUILDING	231902.3N 0851653.5E	2384 FT	NIL	Jagannath Temple
In circling area and at AD	OTHER	232426.1N 0851339.8E	2726 FT	NIL	Radio Mast RATU
In circling area and at AD	BUILDING	232253.2N 0851851.8E	2678 FT	NIL	T.V. Tower

**VERC AD 2.11 METEOROLOGICAL INFORMATION PROVIDED**

1	Name of the associated meteorological office	Ranchi
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	Patna (03-12, 06-15, 09-18, 12-21)      Kolkata (00-09) 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;	Nil
9	The air traffic services unit(s) provided with meteorological information	Ranchi ATC and ACS



10	Additional information, e.g. concerning any limitation of service.	NIL
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**VERC 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
13	130.75 DEG	2713 x 45 M	61/F/C/X/T Asphalt	THR: 231915.50N 0851849.80E
31	310.75 DEG	2713 x 45 M	61/F/C/X/T Asphalt	THR: 231824.10N 0851954.20E

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: 2141.0FT TDZ:	-0.79%	NIL	NIL	2833 x 150 M
THR: 2075.0FT TDZ:	0.79%	NIL	NIL	2833 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 140M		---	NIL
90M x 177M		---	NIL

**VERC 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
13	2713	2713	2713	2424	
31	2713	2713	2713	2713	----

**VERC 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
13	SALS 420 M LIH	Green	PAPI LEFT/3.00 DEG MEHT (59.73FT)	
31	CAT I 180 M LIH	Green	PAPI LEFT/3.00 DEG MEHT (47.37FT)	

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
	2720 M 60 M White LIH	Red		Crossbar at 300 M
	2720 M 60 M White LIH	Red		Crossbar at 150 M

**VERC 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	
2	Location and lighting (if any) of anemometer/landing direction indicator;	LDI	75m (Approx) from edge of Apron II
		Anemometer	Available, Unlighted
3	Taxiway edge and taxiway centre line lights;	Edge	Twy C and D.
		Centre Line	-----
4	Secondary power supply including switch-over time;	Secondary Power supply to all lighting at AD. Switch-over time :10 SEC.	
5	Remarks	NIL	

**VERC 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

**VERC AD 2.17 AIR TRAFFIC SERVICE AIRSPACE**

1	Airspace designation, geographical coordinates and lateral limits	CTR: Circular area centered on ARP VERC (231851N 0851916E) 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;	Ranchi Tower, English
5	Transition altitude	6000 FT
6	Hours of applicability	HO
7	Remarks	NIL

**VERC AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES**

Service Designation	Call sign	Channel(s)	SATVOICE Number(s), if available
1	2	3	4
TWR	Ranchi Tower	118.050 MHZ	
TWR	Ranchi Tower	124.300 MHZ	
ATIS	Ranchi Information	126.850 MHZ	

Logon address, as appropriate	Hours of operation	Remarks
5	6	7
	H24	SMC,TWR and APP services combined
	H24	(Alternative) SMC, TWR and APP services combined
		NIL

**VERC 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 31	IRAN	110.500 MHz	As ATS
GP 31		329.600 MHz	As ATS
DME ILS 31	IRAN	CH42X	As ATS
DVOR/DME	RRC	116.900 MHz CH116X	As ATS
NDB	RC	285 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
231927.9N 0851835.6E			
231832.9N 0851949.8E			3 DEG
231832.9N 0851949.8E	2126 FT		Collocated with GP31
231831.3N 0851935.8E	2135 FT		
231901.3N 0851918.8E			

**VERC AD 2.20 LOCAL AERODROME REGULATIONS**

NIL

**VERC AD 2.21 NOISE ABATEMENT PROCEDURES**

NIL

**VERC AD 2.22 FLIGHT PROCEDURES**

NIL

**VERC AD 2.23 ADDITIONAL INFORMATION**

- 1.No aircraft shall taxi behind aircraft parked on stand no. 2 to stand no.1.
- 2.Passenger boarding bridge and advance visual docking guidance system available on parking stand number 3 and 4.
- 3.Apron obstacles light &obstacle light provided at B.M. Airport Ranchi

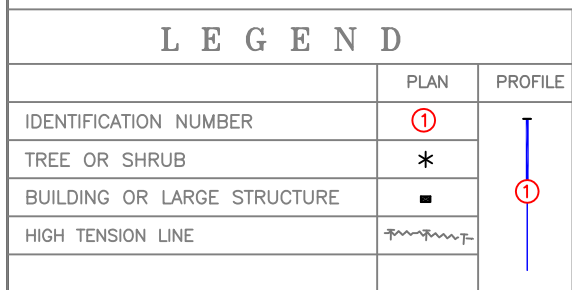
Sl.no	Description	Latitude Longitude	Obstruction Height	Lighting
1	Apron Flood Light Tower-1	231901N 0851935E	16M	Provided
2	Apron Flood Light Tower-2	231857N 0851941E	16M	Provided
3	Apron Flood Light Tower-3	231859N 0851931.5E	15M	Provided
4	Apron Flood Light Tower-4	231854N 0851942E	15M	Provided
5	Apron Flood Light Tower-5	231900N 0851940E	16M	Provided
6	Apron Flood Light Tower-6	231859N 0851931.5E	16M	Provided
7	Apron Flood Light Tower-7	231900N 0851932.5E	15M	Provided
8	ATC Tower	NA	NA	Provided
9	Terminal Building	NA	NA	Provided
10	Overhead Tank	NA	NA	Provided
11	Old Dismantle Store	NA	NA	Provided
12	New Fire Station	NA	NA	Provided
13	Wind-Sock (WDI)	NA	NA	Provided

**VERC AD 2.24 CHARTS RELATED TO AN AERODROME**

- 1.Aerodrome Obstacle Chart Type-A (Obstacle Limitations) RWY 13
- 2.Aerodrome Obstacle Chart Type-A (Obstacle Limitations) RWY 31
- 3.ILS (Z) Procedure RWY 31
- 4.ILS (Y) Procedure RWY 31
- 5.VOR (Z) Procedure RWY 13
- 6.VOR (Z) Procedure RWY 31
- 7.NDB Procedure RWY 31

INDIA/RANCHI  
BIRSA MUNDA AIRPORT/RWY 13

MAGNETIC VARIATION 0° (2010)



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. Periphery road without traffic is no obstacle.
5. Consult Notam for latest information.
6. Rwy directions rounded to nearest degree.(Magnetic)  
(In degree minute : Rwy 13/31 = 131°00'/311°00'  
(taken upto 2013)
7. All obstacles shown in this chart are based on aeronautical obstacle Survey Feb.2009.

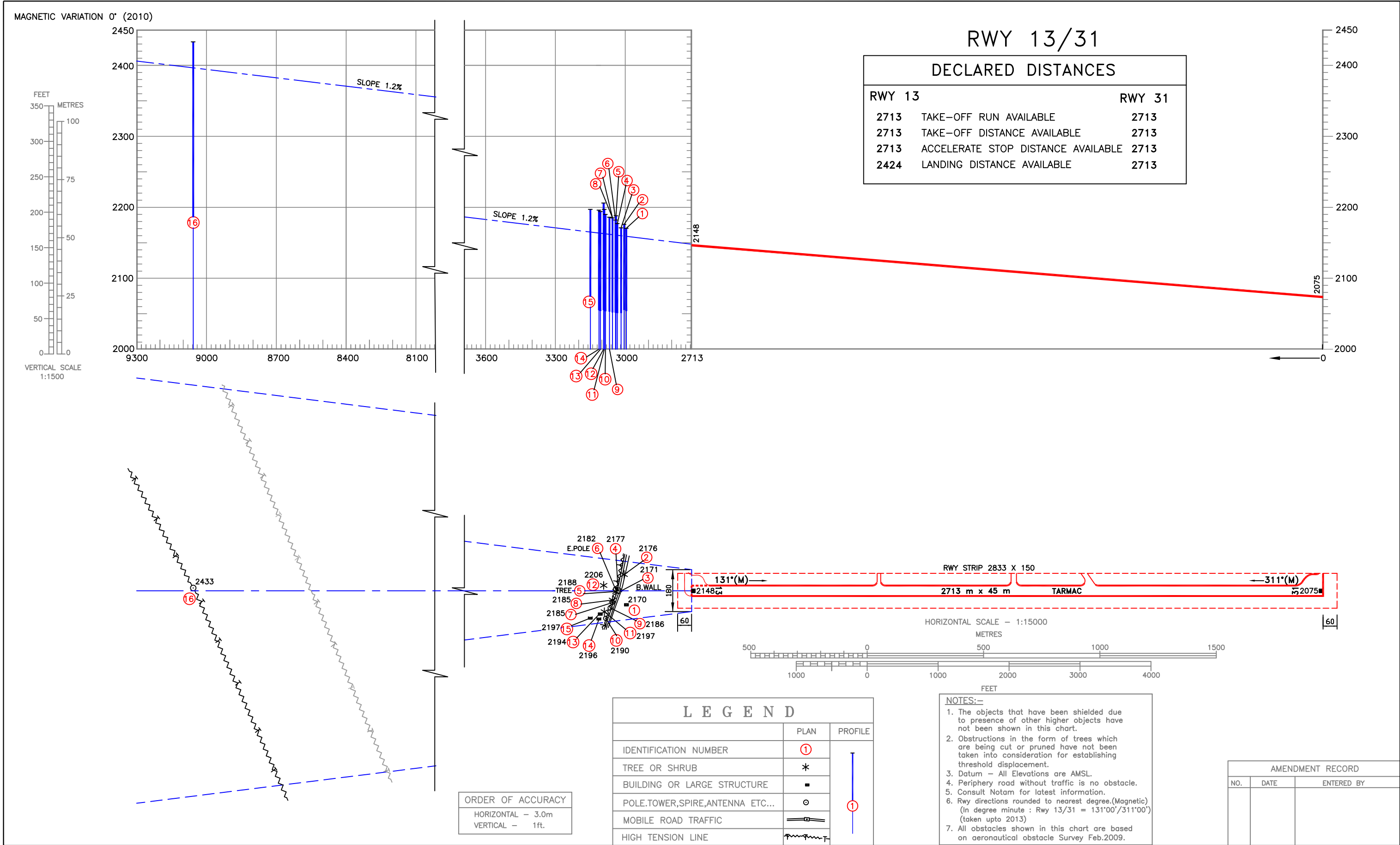
AMENDMENT RECORD		
NO.	DATE	ENTERED BY

CHART No. AAI/33-OBS/CARTO-ACC/2013  
 चार्ट सं. भा.विप्रा./33-अव./कार्टो-वैमा.प्र./2013

ELEVATIONS IN FEET  
ALL OTHER DIMENSIONS IN METRES

AERODROME OBSTACLE CHART  
TYPE -A (OPERATING LIMITATIONS)

INDIA/RANCHI  
BIRSA MUNDA AIRPORT/RWY 31



AERONAUTICAL INFORMATION UPTO - JAN.2014  
वैमानिक सूचना . जनवरी 2014 तक

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

CHART No. AAI/34-OBS/CARTO-ACC/2013  
चार्ट सं भा.वि.प्रा./34-अव/कार्टो-वै.मा.प्र./2013





INSTRUMENT  
APPROACH  
CHARTAERODROME ELEV 2148ft.  
HEIGHTS RELATED TO  
THR RWY 31 ELEV 2075ft

TWR.118.05

RANCHI (VERC)

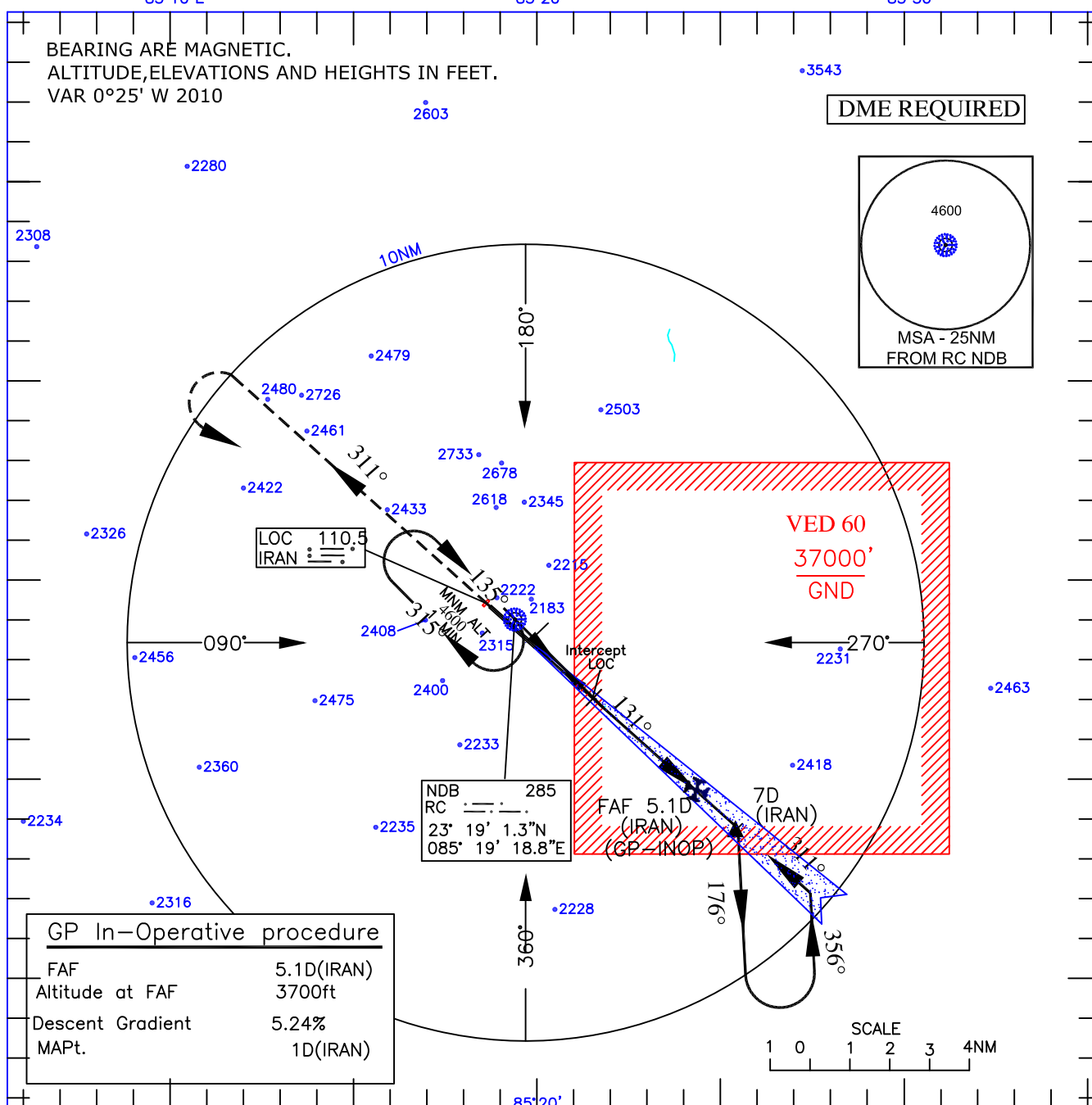
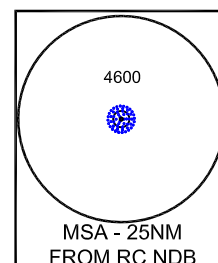
INDIA

ILS (Y) RWY 31

BEARING ARE MAGNETIC.  
ALTITUDE, ELEVATIONS AND HEIGHTS IN FEET.  
VAR 0°25' W 2010

•3543

DME REQUIRED

23°  
30'  
N23°  
20'23°  
10'23°  
30'  
N23°  
20'23°  
10'**GP In-Operative procedure**

FAF 5.1D (IRAN)  
Altitude at FAF 3700ft  
Descent Gradient 5.24%  
MAPt. 1D (IRAN)

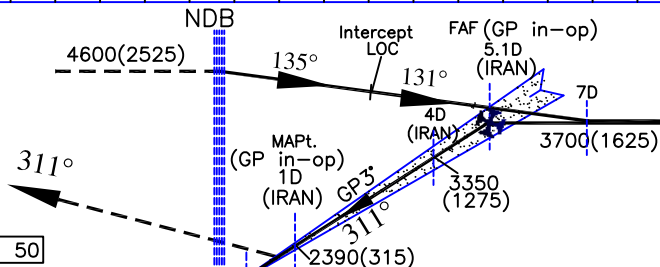
SCALE  
1 0 1 2 3 4 NM

Transition Alt. 6000

**Missed Approach**

Climb straight ahead to 3800ft.,  
then climbing turn LEFT to NDB  
to join holding at 4600ft. or as  
instructed by ATC.

ILS RDH 50

Procedure  
turn at  
7D  
(IRAN)

ELEV. 2075

Nautical miles from THR RWY 31

O C A (H)			Distance (IRAN)/Altitude information for GP in-op Procedure:							
CATEGORY OF AIRCRAFT	A/B	C/D	Distance(NM)	5.1D	5D	4D	3D	2D		
STRAIGHT-IN	2300(225)	2320(245)	Altitude (ft.)	3700	3670	3350	3040	2720		
CIRCLING	2920(772)	3140(992)	Rate of Descent /Ground speed information for GP in-op Procedure:							
GP in-op Procedure			Ground speed (kt.)		80	100	120	140	160	180
STRAIGHT-IN	2600(525)	2600(525)	Rate of descent (ft/min)		425	530	635	745	850	955
CIRCLING	2920(772)	3140(992)								
DRG. NO. AAI/24-IALC/99/19-07-2018										

INSTRUMENT  
APPROACH  
CHART

AERODROME ELEV 2148ft.  
HEIGHTS RELATED TO  
THR RWY 13 ELEV 2141ft

TWR.118.05

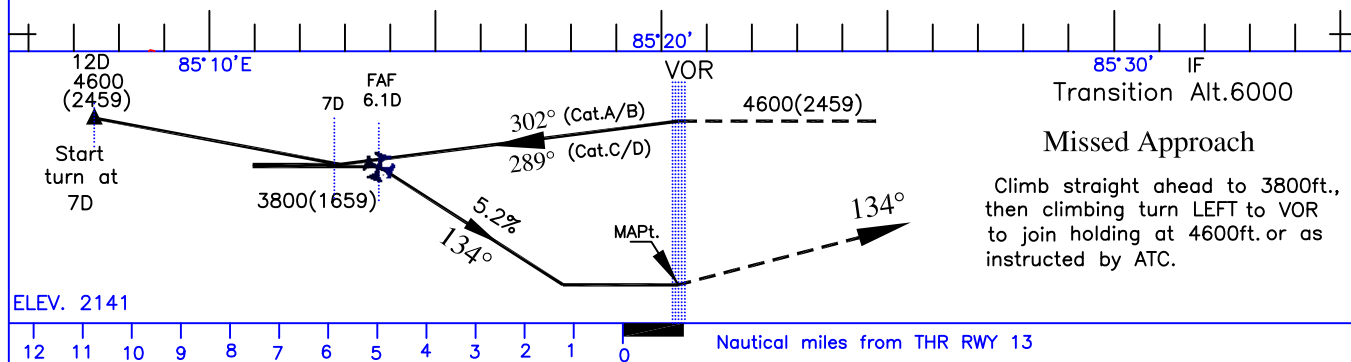
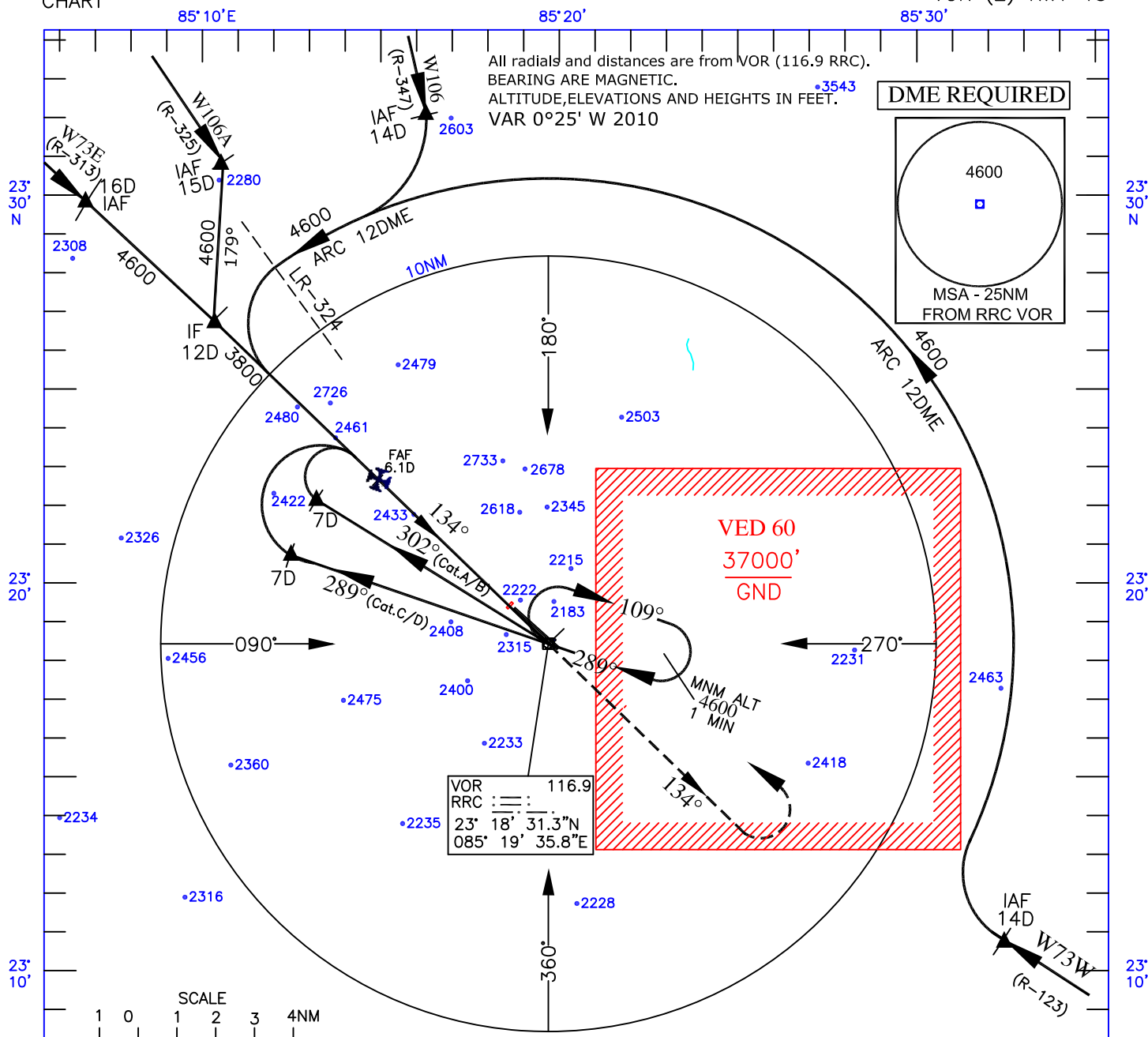
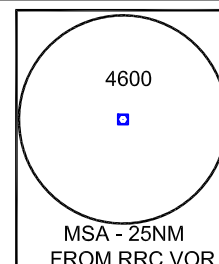
RANCHI (VERC)

INDIA

VOR (Z) RWY 13

All radials and distances are from VOR (116.9 RRC).  
BEARING ARE MAGNETIC.  
ALTITUDE,ELEVATIONS AND HEIGHTS IN FEET.  
VAR 0°25' W 2010

DME REQUIRED

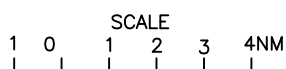


O C A (H)			Distance /Altitude information					
CATEGORY OF AIRCRAFT	A/B	C/D	Distance(NM)	6.1D	6D	5D	4D	3D
STRAIGHT-IN	2700(552)	2700(552)	Altitude (ft.)	3800	3770	3460	3140	2820
CIRCLING	2920(772)	3140(992)	Rate of Descent /Ground speed information					
			Ground speed (kt.)		80	100	120	140
			Rate of descent (ft/min)		420	525	630	735
					160	180	845	950

DRG. NO. AAI/19-IALC/99/19-07-2018



RANCHI  
INDIA  
NDB RWY 31



ELEV. 2075

Nautical miles from THR RWY 31		
O C A (H)		
CATEGORY OF AIRCRAFT	A/B	C/D
STRAIGHT-IN	2780(705)	2780(705)
CIRCLING	2920(772)	3140(992)

eAIP 2.0