

TEL: 91-11-24632950 Extn: 2219/2233 AFS: VIDDYXAX FAX: 91-11-24615508 E_mail:- <a href="mailto:gmais@aai.aero">gmais@aai.aero</a>	AERONAUTICAL INFORMATION SERVICES AIRPORTS AUTHORITY OF INDIA RAJIV GANDHI BHAVAN SAFDARJUNG AIRPORT NEW DELHI – 110003	59 / 2008
		<b>31<sup>st</sup> JULY 2008</b>

File No. AAI/NAD/09-09/AIP-SUPP (Part-AIS)

Following supplement is issued for information, guidance and necessary action.



**K. RAMALINGAM**  
**CHAIRMAN**  
**AIRPORTS AUTHORITY OF INDIA**

[Effective date to be notified by G-SERIES NOTAM]

### **VOR (114.6 DIG) PROCEDURE RWY 11 – Delhi Airport (DME REQUIRED)**

(All Radials and Distances are from VOR (116.1 DPN) unless otherwise specified)

- 1 Holding Procedure:-
  - 1.1 SIKANDARABAD VOR DME(112.4 SSB) One-Minute Right Hand Pattern, Inbound Track 288 Deg M. Minimum Holding Level FL65, Maximum Holding Level FL140
  - 1.2 SAKRAS VOR DME (117.2 SKA) One-Minute Right Hand Pattern. Inbound Track 006 Deg M. Minimum Holding Level FL65
  - 1.3 SAMPLA VOR DME (117.0 SAM) One-Minute Left Hand Pattern. Inbound Track 136 Deg M. Minimum Holding Level FL65
  - 1.4 CHHILERKI VOR DME (116.8 CHI) One-Minute Left Hand Pattern. Inbound Track 060 Deg M. Minimum Holding Level FL65.

## 2. PROCEDURE:

- |  |   |
|--|---|
| 2.1 From SIKANDARABAD<br>VOR DME(112.4 SSB)  | Leave VOR (SSB) to establish R-107 (DPN), maintain FL65. After passing IAF 15D turn left to fly DME ARC of 13D, passing R-213 descend to 2600 feet. Crossing lead radial (R-270) turn right to establish final approach track 107 Deg M (R-287 DIG). At FAF 6.3D, descend to MDA/H.     |
| 2.2 From SAKRAS VOR DME<br>(117.2 SKA)       | Leave VOR (SKA) to establish R-186 (DPN), maintain FL65. After passing IAF 15D, turn left to fly DME ARC of 13D, passing R-213 descend to 2600 feet. Crossing lead radial (R-270) turns right to establish final approach track 107 Deg M (R-287 DIG). At FAF 6.3D, descend to MDA/H.   |
| 2.3 From SAMPLA VOR DME<br>(117.0 SAM)       | Leave VOR (SAM) to establish R-316 (DPN) and descend to 2600 feet, passing IAF 15D, turn right to fly DME ARC of 13D. Crossing lead radial R-290 turn left to establish final approach track 107 Deg M (R-287 DIG). At FAF 6.3D, descend to MDA/H.                                      |
| 2.4 From CHHILERKI VOR<br>DME<br>(116.8 CHI) | Leave VOR (CHI) to establish R-240 (DPN), maintain level 65, passing 20 D (DPN) descend to 2600 feet. Passing IAF 15D, turn left to fly DME ARC of 13D. Crossing lead radial (R-270) turn right to establish final approach track 107 Deg M (R-287 DIG). At FAF 6.3D, descend to MDA/H. |

- 2.5 From ATS Route W20N (R-177) After passing IAF 15D turn left to fly DME ARC of 13D, passing R-213 descend to 2600 feet, crossing lead radial (R-270), turn right to establish final approach track 107 Deg M (R-287 DIG ). At FAF 6.5D descend to MDA/H.
- 2.6 From ATS routes W10N / W33N / L760N (R-162) After passing IAF 15D turn left to fly DME ARC of 13D, passing R-213 descend to 2600 feet, crossing lead radial (R-270) turn right to establish final approach track 107 Deg M (R-287 DIG ). At FAF 6.5D descend to MDA/H.
- 3 IF
- |                   |            |
|-------------------|------------|
| Altitude over IF  | 12.6D(DIG) |
| FAF               | 2600 Feet  |
| Altitude over FAF | 6.3D(DIG)  |
| Descent Gradient  | 2600 Feet  |
|                   | 5.2%       |
- 4 OCA
- |                   |             |
|-------------------|-------------|
| Straight-in       | : 1180 Feet |
| Visual Circling : |             |
| Cat A/B           | : 1470 Feet |
| Cat C/D           | : 1570 Feet |
- Note: Visual Circling NORTH of runway not permitted
- 5 MAPt VOR (114.6 DIG)
- 6 Missed Approach Procedure Turn right on heading 140 deg M climbing to 2600 feet. Then proceed to Sikandarabad VOR (112.4 SSB), at 20D (SSB) climb to FL65 to join holding procedure or as instructed by ATC.

7.1 Distance VORDME(DIG) / Altitude information:

Distance (NM)	6.3D	6D	5D	4D	3D	2D
Altitude (Ft)	2600	2520	2200	1880	1570	1250

7.2 Ground Speed & Rate of Descent information:

Ground Speed (KT)	80	100	120	140	160	180
Rate of descent (Ft/Min)	405	505	610	710	810	910

8 MSA

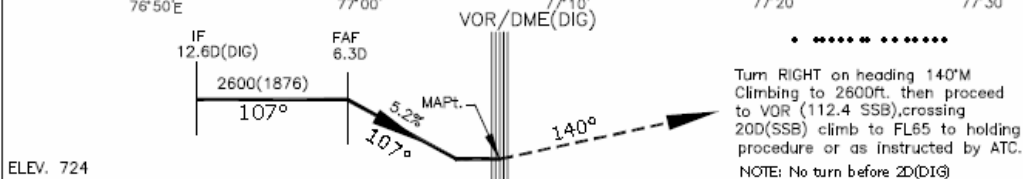
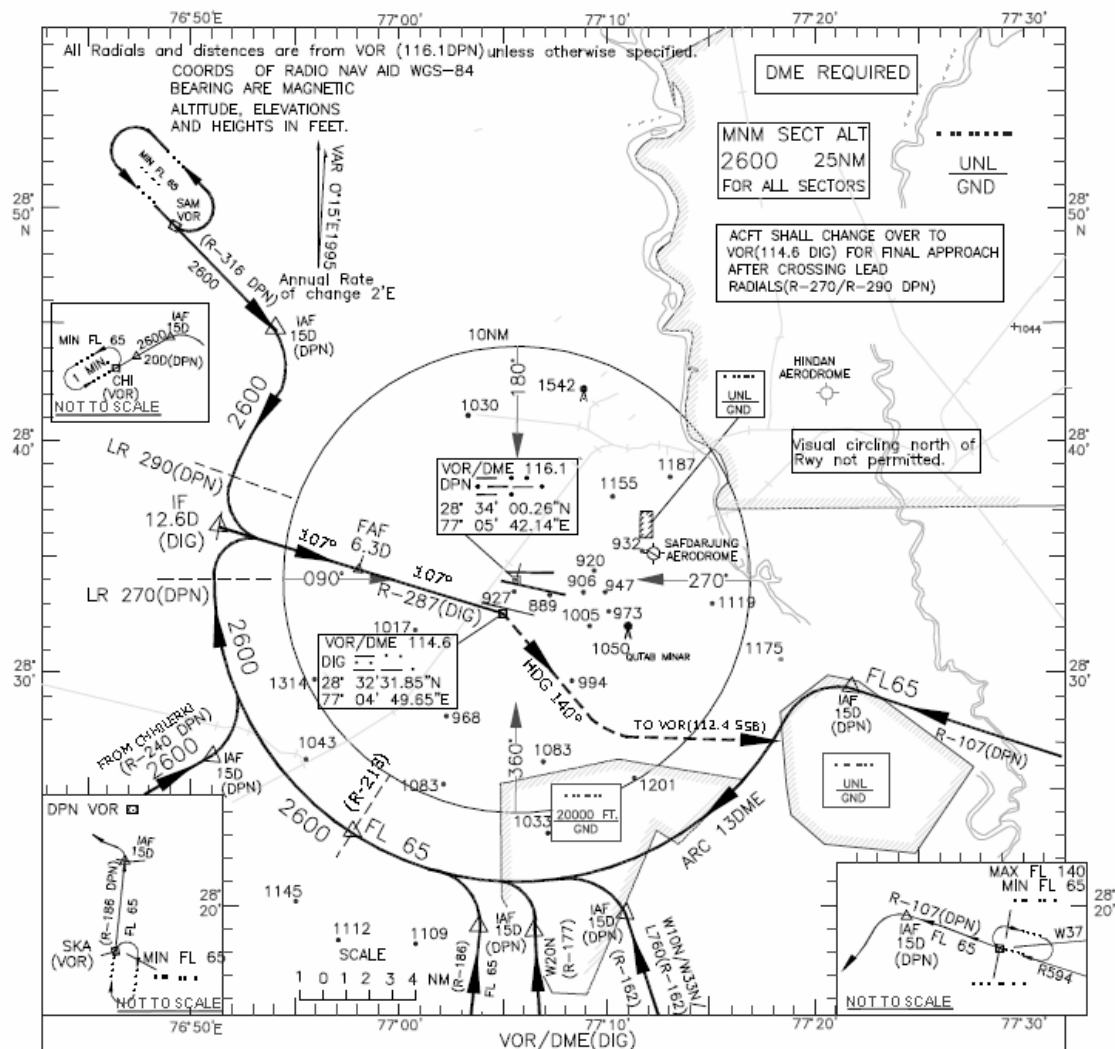
2600 Feet in all sectors

INSTRUMENT  
APPROACH  
CHART

AERODROME ELEV. 777ft.  
HEIGHTS RELATED TO  
THR RWY 11 ELEV.724ft

DELHI  
INDIA  
VOR RWY 11

SMC	TWR	APP ARR	APP DEP
121.625	118.250, 118.825	121.350, 124.250	124.600, 125.675



NAUTICAL MILES FROM THR RWY 11									
O. C. A.	Distance VOR-DME (DIG)				Altitude information				
CATEGORY OF AIRCRAFT	A/B	C/D	Distance (NM)	6.3D	6D	5D	4D	3D	2D
STRAIGHT-IN	1180	1180	Altitude (ft.)	2600	2520	2200	1880	1570	1250
VISUAL CIRCLING	1470	1570	Rate of Descent / Ground speed information						
			Ground speed (kt.)		80	100	120	140	160
			Rate of descent (ft/min)		405	505	610	710	810
AERODROME OPERATING MINIMA	CATEGORY A		CATEGORY B		CATEGORY C		CATEGORY D		
	ALS	ALS OUT	ALS	ALS OUT	ALS	ALS OUT	ALS	ALS OUT	
NORMAL MINIMA	1600	2400	1600	2400	2000	2800	2400	3200	
RESTRICTED MINIMA	2000	2800	2000	2800	2400	3200	2800	3600	
NORMAL CIRCLING MINIMA		3600		3600		4400		4800	
RESTRICTED CIRCLING MINIMA		3600		3600		5000		5000	

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