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		31 st JULY 2008

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]

ILS (CAT I) PROCEDURE RWY 11 – DELHI AIRPORT (DME REQUIRED)

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

1.	Holding Procedures:	
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 FL 140.
1.2	SAKRAS VOR DME(117.2 SAK)	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 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-267) turn right to intercept localizer (111.3 IDMR) inbound track 103 Deg M. Descend on glide path to DA/H.
2.2	From SAKRAS VOR DME(117.2 SAK)	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-267) turn right to intercept localizer (111.3 IDMR) inbound track 103 Deg M. Descend on glide path to DA/H.
2.3	From SAMPLA VOR DME(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-286) turn left to intercept localizer (111.3 IDMR) inbound track 103 Deg M. Descend on glide path to DA/H.
2.4	From CHHILERKI VOR DME(116.8 CHI)	Leave VOR (CHI) to establish R-240(DPN), maintain FL65), passing 20 D (DPN) descend to 2600 feet. After passing IAF 15D turn left to fly DME ARC of 13D. Crossing lead radial (R-267) turn right to intercept localizer (111.3 IDMR) inbound track 103 Deg M. Descend on glide path to DA/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-267) turn right to intercept localizer (111.3 IDMR) inbound track 103 Deg M. Descend on glide path to DA/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-267) turn right to intercept localizer (111.3 IDMR) inbound track 103 Deg M. Descend on glide path to DA/H.

3.	IF Altitude over IF Altitude at 4D (ILS DME) Altitude at 1D (ILS DME) Glide Path Angle ILS RDH	12.1D (ILS DME) 2600 feet 2000 feet 1040feet 3 Deg 50 feet
4.	OCA	Straight-in Cat A/B 924 feet Cat C/D 924 feet Visual Circling Cat A/B 1470 feet Cat C/D 1570 feet (Note Visual Circling NORTH of runway is not permitted).
5.	G.P. In-operative Procedure FAF Altitude over FAF Descent Gradient MAPt	5.9D (ILS DME) 2600 feet 5.24% 1D (ILS DME)
5.1	OCA	Straight-in 1130 feet Visual Circling Cat A/B 1470 feet Cat C/D 1570 feet

5.2 Distance (ILS DME)/Altitude information for G.P. In-operative Procedure:

Distance (NM)	5.9D	5D	4D	3D	2D
Altitude (Ft)	2600	2310	2000	1680	1360

5.3 Ground Speed / Rate of Descent information for G.P. In-operative Procedure:

Ground Speed (KT)	80	100	120	140	160	180
Rate of descent (Ft/NM)	420	525	630	735	845	950

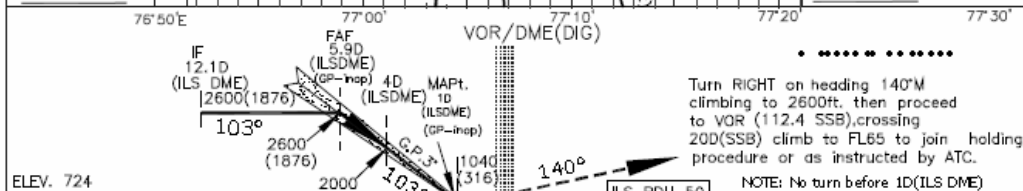
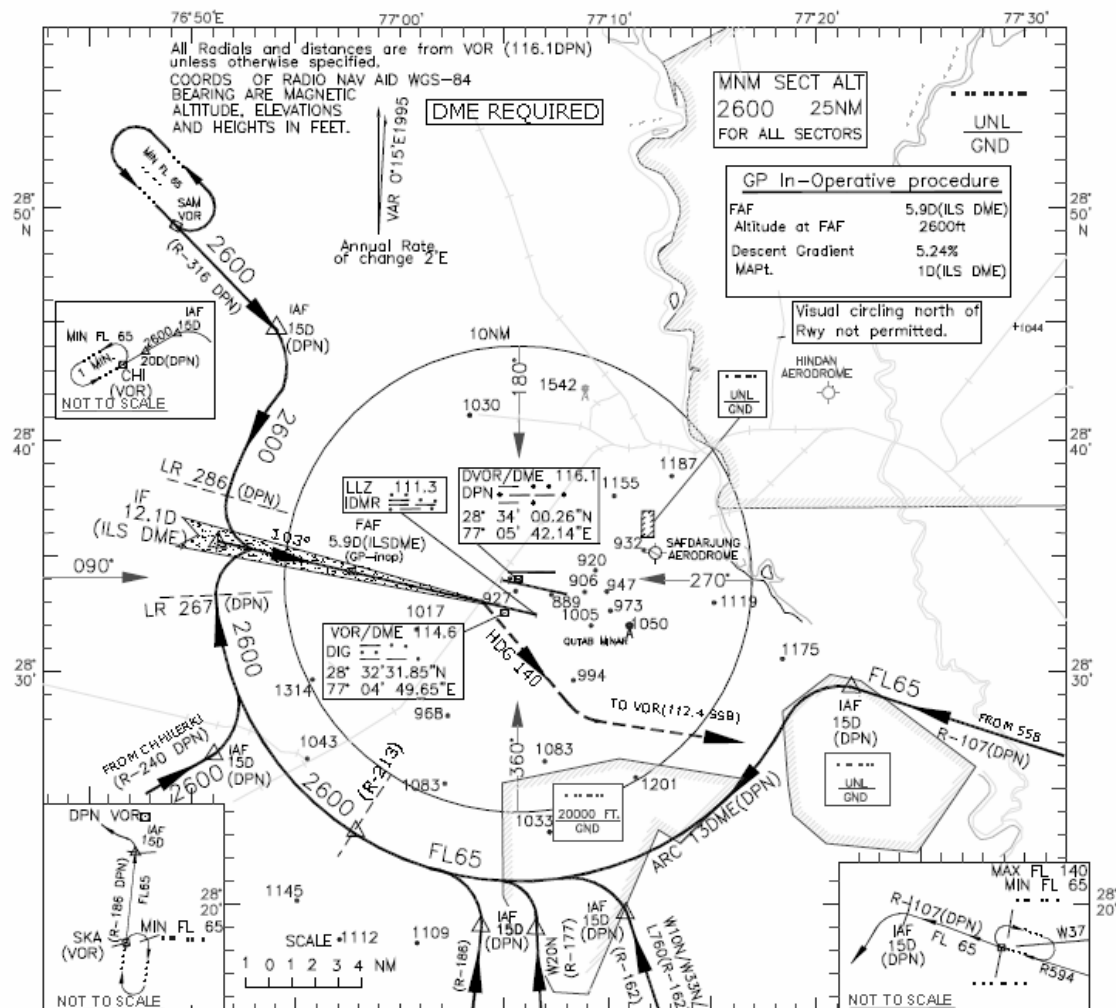
6.	Missed Approach Procedure	Turn right on heading 140 deg M climbing to 2600 feet. Then proceed to Sikandarabad VOR (112.4 SSB), at 20D (SSB) climb to FL65 to join holding procedure or as instructed by ATC. (No turn before 1D(ILS DME)
7.	MSA	2600 feet in all sectors.

INSTRUMENT
APPROACH
CHART

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

DELHI
INDIA
ILS(Cat-1) RWY 11

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



ELEV. 724

O. C. A.				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		924	924	2600		2310		2000		1680		1360					
VISUAL CIRCLING		1470	1570	Rate of Descent /Ground speed information													
G.P.Inoperative procedure				DISTANCE FROM FAF to MAPt : 5 NM													
STRAIGHT-IN		1130	1130	Ground speed (kt.)		80		100		120		140		160		180	
VISUAL CIRCLING		1470	1570	Rate of descent (ft/min)		420		525		630		735		845		950	

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 (ILS)	800(550)	1200	800(550)	1200	800(550)	1200	800(550)	1200
RESTRICTED MINIMA (ILS)	1000	1600	1000	1600	900(650)	1300	900(650)	1300
NORMAL MINIMA (GP INOP)	1600	2400	1600	2400	2000	2800	2400	3200
RESTRICTED MINIMA (GP INOP)	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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