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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 29 – Delhi Airport (DME REQUIRED)

(All radials and distances are from VOR (116.1 DPN) unless otherwise specified)

1. Holding Procedures :-

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|---|--|
| 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 VOR DME (112.4 SSB)

Proceed on track 287 Deg M (R-287 SSB) maintain FL65, crossing 10D (SSB) descend to 2600 feet, intercept localizer (110.9 IDGM) inbound track 283 Deg M. Descend on glide path to DA/H.
 - From SAKRAS VOR DME (117.2 SKA)
 - 2.2 Leave VOR (SKA) to establish R-186 (DPN), maintain FL65. Passing IAF 14D turn right to fly DME ARC of 12D, crossing R-177 descend to 2600 feet. Crossing lead radial(R-120) turn left to intercept localizer (110.9 IDGM) inbound track 283 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), maintain FL65. Passing IAF 14D turn right to fly DME ARC of 12D, crossing R-177 descend to 2600 feet. Crossing lead radial(R-120) turn left to intercept localizer (110.9 IDGM) inbound track 283 Deg M. Descend on glide path to DA/H.
 - 2.4 From ATS routes - W10N / W33N / L760 (R-162)

After passing IAF 14D turn right to fly DME ARC of radius 12D and descend to 2600 feet. Crossing lead radial (R-120) turn left to intercept localizer (110.9 IDGM) inbound track 283 Deg M. Descend on glide path to DA/H.
 - 2.5 From CHHILERKI VOR DME (116.8 CHI)

Leave VOR (CHI) to establish R-240 (DPN), maintain FL65. Passing IAF 14D turn right to fly DME ARC of 12D, crossing R-177 descend to 2600 feet. Crossing lead radial (R-120) turn left to intercept localizer (110.9 IDGM) inbound track 283 Deg M. Descend on glide path to DA/H.
 - 2.6 From ATS Route W20N(R-177)

After passing IAF 14D turn right to fly DME ARC of radius 12D and descend to 2600 feet. Crossing lead radial R-120 turn left to intercept localizer (110.9 IDGM) inbound track 283 Deg M. Descend on glide path to DA/H.

3. IF 11.5D(ILS DME)
Altitude over IF 2600 feet
Altitude at 4D (ILS DME) 2020 feet
Altitude at 1D(ILSDME) 1060 feet
G.P. Angle 3 Deg
ILS RDH 50 feet
4. OCA Straight-in: Cat A/B – 951 feet
Cat C/D – 951 feet

Visual Circling: Cat A/B – 1470 feet
Cat C/D – 1570 feet
5. GP In-Operative Procedure FAF - 5.8D(ILSDME)
Altitude at FAF - 2600 feet
Descent Gradient - 5.24%
MAPt. - 1D(ILS DME)
- 5.1 OCA Straight in: 1160 feet

Visual Circling:
Cat A/B: 1470 feet
Cat C/D: 1570 feet

Note: Visual Circling NORTH of Runway not permitted.

5.2 Distance Altitude information for GP In-operative Procedure:

Distance (ILSDME)	5.8D	5D	4D	3D	2D
Altitude (Feet.)	2600	2340	2020	1700	1380

5.3 Ground Speed & ROD information for GP In-operative procedure:

Ground Speed (KT)	100	120	140	160	180
Rate of descent (Feet/Min)	530	635	745	850	955

6. Missed Approach Procedure

Turn left on heading 250 Deg M climbing to 2600 feet. Then proceed to CHHILERKI VOR DME (116.8 CHI), crossing 8D (CHI) climb to FL65 to join holding procedure or as instructed by ATC.

Note : No turn before 1D (ILS DME).

7. MSA

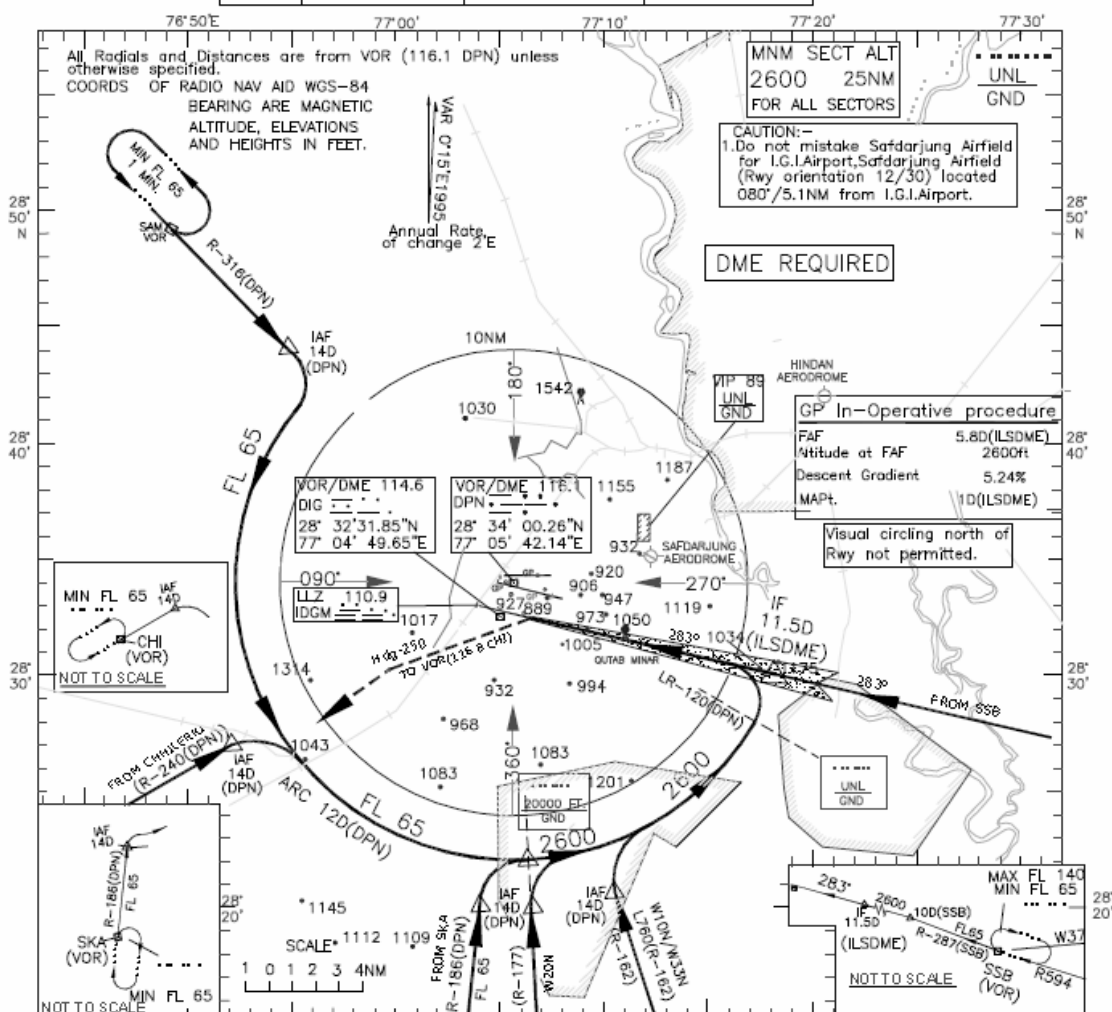
2600 feet (All sectors)

INSTRUMENT
APPROACH
CHART

AERODROME ELEV. 777ft.
HEIGHTS RELATED TO
THR RWY 29-ELEV.751ft

DELHI
INDIA
ILS (CAT-I) RWY 29

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



Turn LEFT on heading 250°M
Climbing to 2600ft. then proceed
to VOR (116.6 CHI), crossing
BD(CHI) climb to FL65 to join holding
procedure or as instructed by ATC.

NOTE: No turn before 1D(1LS DME)

NAUTICAL MILES FROM THR RWY 29	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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D. C. A.			Distance (ILSDME) / Altitude information for G.P.inoperative Procedure								
CATEGORY OF AIRCRAFT	A/B	C/D	Distance(NM)	5.8D	5D	4D	3D	2D			
STRAIGHT-IN	951	951	Altitude(Ft.)	2600	2340	2020	1700	1380			
VISUAL CIRCLING	1470	1570	Time & Rate of Descent information for G.P.inoperative Procedure								
GP In-Operative procedure			Ground speed (kt.)								
STRAIGHT-IN	1160	1160	Rate of descent (ft/min)			530	100	120	140	160	180
VISUAL CIRCLING	1470	1570				530	635	745	850	955	

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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