



GOVERNMENT OF INDIA
CIVIL AVIATION DEPARTMENT
DIRECTOR GENERAL OF CIVIL AVIATION

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OPERATIONS CIRCULAR

File No AV 22024/01/2017-FSD

Subject: Precision Approach Radar (PAR) Approaches

1. INTRODUCTION

PAR as the name suggests is a radar which provides accurate indications of an aircraft's position in three dimensions in the final approach funnel of the specific runway. Primary radar equipment uses two sweeping radars to display aircraft's position to the controller during final approach, in terms of lateral and vertical deviations relative to a nominal approach path, and in range relative to touchdown. PAR approaches are categorized as Category 1 Instrument Approach but are controller aided with lateral and vertical steering instructions being communicated by the PAR controller to the pilot.

2. PURPOSE

PAR approaches are available at some defence aerodromes in India, and may be the only precision approach available in the absence of an ILS.

3. APPROVAL OF PAR APPROACHES

Operators may carry out PAR approaches with approval of DGCA. Operators intending to carry out PAR approaches shall ensure:

- (a) Instrument approach design complies with ICAO Doc 8168 PANS-OPS Aircraft Operations Vol II – Construction of Visual and Instrument Flight Procedures.
- (b) Instrument approach chart complies with ICAO Annex 4 – Aeronautical Charts
- (c) Approach and radiotelephony procedures comply with ICAO Doc 4444 PANS-ATM Air Traffic Management.

- (d) Instrument approach procedure is promulgated through AIS.
- (e) Safety Risk Assessment is carried out.
- (f) Crew are trained and qualified for PAR approaches.
- (g) Standard Operating Procedures for PAR approaches are included in the Operations Manual and followed.

4. GENERAL

Operations Circular 18/2010 Precision Approach Radar – PAR Approaches is hereby cancelled.

Sd/-
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Chief Flight Operations Inspector
For Director General of Civil Aviation