INDIAN NAVY AND FLEXIBLE USE OF AIRSPACE

ICAO APAC CIVIL MILITARY COOPERATION REGIONAL CONFERENCE



REQUIREMENTS

CHALLENGES/ WAY AHEAD

CONCLUSION





REQUIREMENTS

Civil Requirements

- Commerce driven.
- Cost effective/ Time Bound/Schedule
- Environment
- Increased Volume

REQUIREMENTS

- Military requirements
 - Complexity of Manoeuvres
 - Not Scheduled
 - Critical and Mission Oriented

AIRSPACE STRUCTURE

- Finite Resource
- Present Structure
 - Civil CTRs, CTAs, TMA etc
 - Military Restricted Areas, Danger Areas
 - Joint User Airfields

FLEXIBLE USE OF AIRSPACE

- Indian Navy has three joint user airfields
- Civil Aircraft operate on a 24 hour basis along with military aircraft
- Real Time utilization of airspace

FUA CO-OPERATION

- Reduction of Height over Danger Area from F400 to F280
- Denotification of VOD 172A and restructuring of VOD at Kochi
- Creation of new CDR on route N 563 over Goa Airspace
- Implementation of PBN Procedures at Goa
- Denotification of VOR 184 at Visakhapatnam
- Sharing of Surveillance data

FUA CO-OPERATION

- Creation of 7 TRAs for RPA operations at Kochi
- Creation of 5 TSAs/ TRAs at Visakhapatnam
- Creation of ATZ at Kochi
- Creation of Dynamic Airspaces at Porbandar and Chennai
- Conduct of Workshops on FUA
- Installation of ADS B at Campbell Bay in South Andamans

TRANSITION

- From ASM Level 1 to 3
- Setting up of AMCs
- Already Existing system in the Military

INTEGRATION

• Tactical

- \blacktriangleright Plans received on D 1
- Addition and Alterations subject to requirements
- Similar to AMCs in Civil

INTEGRATION

- Civil Flight Operations
- Sectorisation of LFAs
- Creation of Buffer Zones
 - **Deconfliction of Traffic**

Slots



CHALLENGES/ WAY AHEAD

- Compatibility of Systems
- Integration of Systems
- Each others Requirements
- Mutual Trust
- My Airspace

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Questions ?