

Airports: Emerging Issues

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Contents of this presentation

- **What we ought to be concerned about in Airport Planning and Development**
- **What are new issues arising in the Operations area in India**

To be read with discussions reg. Issues in Indian Aviation to be discussed on 11 October afternoon.

Based on readings and discussions with colleagues and professionals is gratefully acknowledged.

Some Basic Strategic issues

- How much more airport capacity is required in the future?
- How is the capacity to be provided?
- What are likely to be the major issues affecting development?
- How much will the development cost? Who will pay?
- What are new PPP structures for development?
- What are new developments in airport passenger facilitation and health safety?
- What are new technologies being introduced for airport security?
- What Airport security upgrades based on Drone operations are required? For regular operators and miscreants.
- What are new developments in Air Navigation Services?

What are other questions that you have?

How is the capacity of Airports to be enhanced?

- **Improve Efficiency and throughput of airports**
- **Expand Airports**
 - Lengthen runways, more runways, more parking aprons for larger aircraft
 - Build more terminals, Share traffic between existing and new airports
- **Build More airports**
 - Mumbai & Goa are already getting 2nd airports. One more proposed for Delhi/ NCR at Jewar, UP.
 - New airports for Regional Connectivity Services are being built for UDAN scheme
 - Regional Airport Development Study is required.
 - Speed up development time
- **Policy review required**
 - 150 kms. distance between airports to be scrapped

How is the capacity of Airspace to be enhanced?

In Air Navigation Services

- Reduce runway and taxiway occupancy times & improve their availability**
- Optimize Gate turn-around times**
- Upgrade ANS equipment and services**
 - Recent improvements include Air Flow Traffic Management. India is now 1 of 8 airspaces following this procedure.**
 - Make use of ADS-B widespread over land and in Oceanic areas.**
 - Introduce more SATNAV and Automation & Digital services, e.g. GAGAN.**
 - Supplement all this with more trained ATCO personnel and CNS engineers.**

Some major issues affecting development

■ Increase Private Public Participation in Airport Development & Operations

- CIAL, HIAL, MIAL, DIAL, BIAL & Adani Groups with 6 airports, all have varying contracts
- Guesstimate of Rs. 4 Lakh crores in 15 years for 70 airports and 30 expanded airports in 2018. To be updated

■ Land Acquisition Rules & Regulations

■ Social Impact of Airport Development

■ Environmental Impact & Management

■ Provision of Utilities

■ Surface Access

■ Integration of transportation systems

■ Significant improvement in airport coordination amongst stakeholders & service providers is required

Improvements in Passenger Terminals

- **Reduce Service times**
- **Reduce passenger touchpoints/ counters to report to while passing through the terminal**
 - Walk through security check
 - Facial recognition
 - Bag drop off
- **Biometric self-boarding technology - paperless air travel (Bengaluru and Delhi examples of new technologies and procedures), but with assistance for those who are not regular travelers**
- **Data mining & recall systems in Immigration Control**
- **Reusable structures for sustainable structures, solar panels, grey water reuse.**
- **Airport cyber-systems to be 'super safe'**

Questions, Questions, Questions

THE END