GEN 3.2 - AERONAUTICAL CHARTS

1. Responsible services

1.1 Airports Authority of India provides a wide range of aeronautical charts for use by all types of civil Aviation as per subsection 4.1 and 4.2. In addition, World Aeronautical chart on the scale 1:1mllion are produced by Survey of India and can be obtained from their offices. The charts are produced in accordance with the provisions contained in ICAO Annex 4 - Aeronautical Charts. Differences to those provisions are detailed in the AIP.

2. Maintenance of Charts

2.1 The Aeronautical charts are maintained up to date and corrections to them are promulgated by AIP Amendments, NOTAMS, etc.

3. Purchase arrangements:

3.1 FIR, TMA, ATS route charts are prepared by AAI and available on payment basis. These charts can be procured at the following address-

General Manager (AIS),
Airports Authority of India
Rajiv Gandhi Bhavan,
Safdarjung airport,
New Delhi- 110003
Email: gmais@aai.aero
TeleFax: +91-11-24615508

3.2 World Aeronautical Charts can be obtained from Survey of India at the following address

Director
Survey (Air) & Delhi Geo-Spatial Data Centre
2nd Floor, West Block No.4, Wing IV
R K Puram, New Delhi-110066
Fax 26196301, 26107795
Email- delhi.gdc.soi@gov.in

4. Aeronautical Chart service available

4.1. The following series of aeronautical charts are prepared and published -

a.) Aerodrome/Heliport Chart
b.) Aircraft Parking / Docking Chart
c.) Aerodrome Ground Movement Chart
d.) Aerodrome Obstacle Chart Type “A”
e.) Aerodrome Obstacle Chart Type “B” (on need basis)
f.) Precision Approach Terrain Chart
g.) Enroute Chart
h.) Area / TMA Chart
i.) Standard Departure Chart-Instrument (SID)
j.) Standard Arrival Chart-Instrument (STAR)
k.) Instrument Approach Chart

4.2 The following series of Maps/charts are prepared for official uses: -

a.) Grid map
b.) Zoning Map
c.) Colour Coded Zoning Map (CCZM)
d.) 30 NM Chart
e.) Approach Chart
f.) Vertical significance chart
g.) OLS Chart
h.) Taxi Routing Chart / Departure Route (on need basis)
i.) ATS Route Chart

4.3 General Description of each series

4.3.1 Aerodrome/Heliport Chart -This Chart provides flight crews with information which will facilitate the ground movement of aircraft - from aircraft stand to runway and from the runway to the aircraft stand.it also provides essential operational information at the aerodrome/heliport.
And helicopter movement-
a) from the helicopter stand to the touchdown and lift-off area and to final approach and take-off area;
b) from the final approach and take-off area to the touchdown and lift-off area and to the helicopter stand;
c) along helicopter ground and air taxiways; and
d) along air transit routes

4.3.2 Aircraft Parking/Docking Chart –This chart provides flight crews with detailed information to facilitate the ground movement of aircraft between the taxiways and the aircraft stands and the parking/docking of aircraft.

4.3.3 Aerodrome ground movement chart: This chart provides flight crew with detailed information to facilitate the ground movement of aircraft to and fro from the aircraft stands and parking/docking of aircraft.

4.3.4 Aerodrome Obstacle Chart -Type 'A' (Operating Limitations) - This chart contains detailed information on take-off flight path areas of aerodromes. It is shown in plan and profile view for both the sides of the runway.

4.3.5 Aerodrome Obstacle Chart -Type 'B' - This chart provides to determination of minimum safe altitudes/heights including those for circling procedures, procedures for use in the event of an emergency during take-off or landing and provision of source material for aeronautical charts.

4.3.6 Precision Approach Terrain Chart - This chart provides detailed terrain profile information within a defined portion of the final approach so as to enable aircraft operating agencies to assess the effect of terrain on decision height determination by the use of radio altimeters.

4.3.7 En-route Chart - This chart is produced for the entire Indian FIR. The aeronautical data include all aerodromes, prohibited, restricted and dangerous areas and the air traffic services system in detail. The chart provides the flight crew with information that will facilitate navigation along ATS routes in compliance with air traffic services procedures.

4.3.8 Area/TMA Chart - This chart provides the flight crew with information to facilitate the following phases of instrument flight:

4.3.8.1 The transition between the en-route phase and approach to an aerodrome;

4.3.8.2 The transition between take-off/missed approach and Enroute phase of flight;

4.3.8.3 Flights through areas of complex ATS routes or airspace structure.

4.3.9 Standard Departure Chart (SID) - This chart provides the flight crew with information that will enable them to comply with the designated standard departure route - Instrument from the take-off phase to the en-route phase.

4.3.10 Standard Arrival Chart (STAR) - This chart provides the flight crew with information that will enable them to comply with the designated standard arrival route instrument from the en-route phase to the approach phase.

4.3.11 Instrument Approach Chart -. This chart provides the flight crew with information that will enable them to perform approved instrument approach procedure to the runway of intended landing including the missed approach procedure and where applicable, associated holding patterns.
This chart is produced for all aerodromes used by civil aviation where instrument approach procedures have been established. A separate Instrument approach chart has been provided for each approach procedure.

4.3.12 Colour Coding Zoning Map (CCZM) - This map depicts the permissible elevation (AMSL) in colour coded grid format for building/structure around an airport.
No Objection Certificate (NOC) for height clearance is not required from AAI for proposed building/ structure to be constructed up to the elevation permitted as per CCZM.

5. List of Aeronautical Charts Available *To be provided*

5.1.1 Aerodrome Charts

Aerodrome	Number	Scale	Date

5.1.2 Aircraft parking/docking chart *To be provided*

Aerodrome	Number	Scale	Date

5.1.3 Aerodrome Obstacle Charts Type – A (Operating Limitations) *To be provided*

Aerodrome	Number	Scale	Date