

5.2.1.3.1 For flights under Instrument Flight Rules, at least the following equipment shall be required;

- a) Two VOR receivers
- b) DME receiver
- c) Automatic Direction Finder (ADF)
- d) Radio Magnetic Indicator (RMI)
- e) Horizontal Situation Indicator (HIS) or Omni Bearing selector (OBS).

5.2.1.4. The aeroplane shall be sufficiently provided with navigation equipment to ensure that, in the event of the failure of one item of equipment at any stage of the flight, the remaining equipment will enable the aeroplane to navigate in accordance with 5.2.1.1 and where applicable 5.2.1.2 and 5.2.1.3

5.2.1.5. On flights in which it is intended to land in instrument meteorological conditions, an aeroplane shall be provided with radio equipment capable of receiving signals providing guidance to a point from which a visual landing can be effected. This equipment shall be capable of providing such guidance at each aerodrome at which it is intended to land in instrument meteorological conditions and at any designated alternate aerodromes.

5.2.2. *Aeroplane Communication Equipment*

5.2.2.1. An aeroplane shall be provided with radio communication equipment capable of :

- a) conducting two-way communication for ATS purposes;
- b) receiving meteorological information at any time during flight; and
- c) conducting two-way communication at any time during flight with at least one aeronautical station and with such other aeronautical stations and on such frequencies as may be prescribed by the appropriate authority.

Note.— The above requirements are considered fulfilled if the ability to conduct the communications specified therein is established during radio propagation conditions which are normal for the route

- d) Communicating on the aeronautical emergency frequency 121.5 MHz.

5.2.2.2. Installation of H.F. communication is mandatory for Helicopter and STOL operation aircraft and recommended to install for the aircraft operating only on normal field (Non STOL).

5.2.2.3. For Flight in defined portions of airspace or on routes where an RCP type has been prescribed, an aeroplane shall in addition to the requirements specified in 5.2.2.1:

- a) be provided with communication equipment which will enable it to operate in accordance with the prescribed RNP type(s), and
- b) be authorized by the state of the operator for operation in such airspace.

5.2.2.4. The pilot in command shall maintain a continuous listening watch on the appropriate air ground frequency.