



ICAO

International Civil Aviation Organization

Eleventh Meeting of the Aeronautical Communication Services Implementation Coordination Group (ACSICG/11)

Bangkok, Thailand, 19-22 March 2024

Agenda Item 5: AMS and Data link communication

PCAA ACQUISITION OF NEW HF RT SYSTEM

(Presented by Pakistan Civil Aviation Authority)

SUMMARY

This paper presents brief overview of Pakistan Civil Aviation Authority (PCAA) progress for acquisition of new HF R/T system along with SELCAL system and provision of HF data link.

1. INTRODUCTION

1.1 PCAA established Aeronautical Stations at JIAP Karachi and AIIAP Lahore for the provision of Aeronautical Mobile Service (AMS) through High Frequency Radio Telephony (HF RT) System. The current HF R/T System is being downgraded due to various reasons including obsolete and outdated Technology.

2. DISCUSSION

2.1 PCAA has taken initiative for the procurement of new HF R/T system at JIAP Karachi and AIIAP Lahore (with remote operations at IIAP Islamabad through VOIP connectivity with AIIAP Lahore) hence increasing the number of Aeronautical Stations from previous two to three. The objectives of the new HF R/T system are as under:

- a) To provide coverage in Pakistan Northern International Air Routes from PURPA to GILGIT, crossing Pakistan-China border, are completely devoid of any Aeronautical Communication both HF and EVHF/VHF Coverage. Pakistan Western Air Routes crossing Pakistan-Afghan Border in Lahore FIR also have grey areas for EVHF/VHF Communication. It is expected that all the grey areas will be covered due to wide coverage of HF RT System as well as coverage in hilly areas / oceanic regions where RADAR / VHF coverage is not available. Installation of New HF High power RT System is also required as a contingency / backup system for EVHF/VHF communication.
- b) It is expected that the proposed system will provide seamless operations for Aeronautical Mobile Service in MWARA (Major World Air Route Areas) MID-II (Middle East-II) and RDARA (Regional and Domestic Air Routes Area), Sub-Area 6A as designated by the ICAO Annex-10, Vol-II, Vol-III, Vol-V and ITU RR, Appendix-27.

- c) The new HF R/T System will also comply with the provisions of ICAO Amendment 91 to Annex 10 Vol-III regarding provision of SELCAL32 (expansion of SELCAL codes).
- d) The new HF R/T system will be capable for the provision of HF data Link (HFDL) in accordance with the ICAO Doc 9741 Manual on HF data link.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) discuss any relevant matter as appropriate.
