

APPENDIX 3J – Cost estimation of IIM Projects

 ICAO APIRG IIM Projects Estimated Costing				
IIM Project references	IIM Project title	Project Objectives	Estimated Cost (USD)	Comments
AIM Project 4	Monitoring of the Aeronautical information quality and Improvement of NOTAM	Deliver performance report on the improvement of aeronautical information quality by States, develop necessary assistance documents and tools and assist States in the provision of enhanced NOTAM.	104,000	Detail of costing is provided in the ProDoc
AIM Project 5	Implementation of Aerodrome mapping data sets and Instrument flight procedure data sets	Develop necessary assistance documents and tools and assist States in the implementation of Aerodrome (AD) mapping data sets and Instrument flight procedure (IFP) data sets.	94,500	Detail of costing is provided in the ProDoc
COM Project 1	Implementation of Ground/Ground communication(ATS/DS, AIDC, VoIP)	Assist States in implementing Air Traffic Service/Direct Speech (ATS/DS), Data communication between air traffic services (AIDC: Air Traffic Service Interfacilities Data Communication) , and the Voice over Internet Protocol (VoIP)	122,500	Detail of costing is provided in the ProDoc
COM Project 2	Implementation of Ground/Ground communication (AFTN, AMHS)	Assist States in the implementation of Aeronautical Fixed Service Network (AFTN) and Air Traffic Service Message Handling System (AMHS) in compliance with ICAO requirements.	119,000	Detail of costing is provided in the ProDoc
COM Project 3	Implementation of Air/Ground communication (HF/VHF voice data, CPDLC)	Assist States in the implementation of Aeronautical Mobile Service through High Frequency/Very High Frequency (HF/VHF) voice Communication, High Frequency/Very High Frequency Data link communication (HF/VHF DL) and Controller/Pilot Data Link Communication (CPDLC).	109,500	Detail of costing is provided in the ProDoc
COM Project 4	Implementation of interoperable seamless telecommunication infrastructure	Develop an AFI interoperable seamless telecommunication infrastructure to support ATM, AIM, MET and aeronautical telecommunication services.	110,500	Detail of costing is provided in the ProDoc
COM Project 5	Assessment of AFI Aeronautical Networks Cyber Security	Develop and implement a global Cyber resilience framework over the AFI region for Air Navigation Services to prevent internal and external threats impacting availability, reliability, integrity and continuity of Air Navigation Services	102,000	Detail of costing is provided in the ProDoc
NAV Project	Implementation of Conventional Nav' Aids and GNSS (Core and Augmented)	Analyse the implementation and operational status of conventional radionavigation aids and the use of GNSS (both core and augmented) and propose a strategy going forward in line with the recommendations and requirements of the GANP 6th edition and annex 10.	99,000	Detail of costing is provided in the ProDoc
SUR Project	Implementation of Surveillance systems	assist States in the implementation of the Secondary Surveillance Radar Mode S (SSR), the Automatic Dependent Surveillance Contract (ADS-C) and the Automatic Dependent Surveillance Broadcast (ADS-B) ground and space based Multilateration (Mlat) in ompliance with the related requirements.	110,000	Detail of costing is provided in the ProDoc
SPEC Project	Development of Policies and Systems for protection of Aeronautical Frequency	Assist States in developing resilient framework for coordination of Aeronautical frequencies in the region and establish a forum and logical infrastructure for coordination of aeronautical frequencies with State regulators sub-region and regional frequency Management bodies.	91,000	Detail of costing is provided in the ProDoc
MET Project 1	Provision of global, regional, and local meteorological products/Information	Assist States in transitioning from current aeronautical meteorological information to the future SWIM-enabled environment in the AFI region by assisting AFI States to progressively develop capability of handling OPMET data in digital format (XML/GML) and to start using XML/GML codes in operational environment.	113,500	Detail of costing is provided in the ProDoc
MET Project 2	Provision of meteorological information in the ICAO Meteorological Information Exchange Model (IWXXM) format	Assist States in developing capacity to handle the OPMET data in digital format (XML/GML) and to start using XML/GML codes in operational environment by 2024	110,000	Detail of costing is provided in the ProDoc
MET Project 3	Implementation of ICAO Annex 3 provisions relating to Space Weather requirements within the AFI Region	Assist the states within the ICAO AFI region to meet the space weather information requirements in accordance with the ICAO Annex 3.	94,000	Detail of costing is provided in the ProDoc
MET Project 4	Implementation of Aeronautical Meteorological Personnel Competency Standards in the AFI Region	Assist States in complying with the requirements of the World Meteorological Organization (WMO) in respect of qualifications, competencies, and training of meteorological personnel providing service for international air navigation	98,000	Detail of costing is provided in the ProDoc
MET Project 5	Mitigation of the deficiencies related to the availability of the OPMET data in the AFI region	Assist States in improving the availability of OPMET data to end-users in the AFI region	132,500	Detail of costing is provided in the ProDoc
Total			1,610,000	