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KUALA LUMPUR FLIGHT INFORMATION REGION CONSTRUCTION AND OPERATION OF NEW AIR TRAFFIC CONTROL CENTRE COMPLEX AT KLIA SEPANG. INSTALLATION OF NEW COMMUNICATION, NAVIGATION, SURVEILLANCE AND AIR TRAFFIC MANAGEMENT SYSTEM (CNS/ATM)

1 INTRODUCTION

1.1 The upgrading and modernisation of Malaysia's Air Traffic Services, Air Traffic Control System and ground based navigation and surveillance system is in progress. The programme commenced on 18th January 2016 and is expected to be completed by the end of 2019.

2 NEW ATCC COMPLEX

2.1 A new Air Traffic Control Centre complex near Kuala Lumpur International Airport at Sepang is under construction. The new ATCC complex in Sepang will replace the existing operational ATCC in Subang and will provide modern and advanced CNS/ATM systems to support air navigation.

2.2 It is located near Kuala Lumpur International Airport (KLIA) in Sepang district.

3 UPGRADING OF COMMUNICATION NAVIGATION SURVEILLANCE AND ATM SYSTEM

3.1 Concurrent with the upgrading programme new ground based communication, navigation surveillance and Air Traffic Management system will be introduced. These includes the installation of:

- New VHF stations, relocation of VHF stations and improvement to ground aeronautical telecommunication network system
- Automatic Dependant Surveillance Broadcast (ADS-B) stations
- New mode S primary and secondary radars, and replacement of aged radar stations
- New DVOR/DME and DME stations
- New Air Traffic Management (ATM) system in new ATCC complex
- Installation of Ground Based Augmentation System (GBAS) to facilitate Cat 1 GNSS approach at KLIA

4 SCOPE OF WORKS AND SCHEDULED TARGET DATES OF COMPLETION

4.1 The facilities, work items and targeted operation dates are as follows:-

FACILITY	WORK ITEMS	TARGET OPERATION DATE
NEW ATCC BUILDING COMPLEX	Construction of Operation, Administration, Ancillary buildings and ground utility facilities	2nd half of 2019
COMMUNICATIONS	Aeronautical Ground Telecommunication Networks: - Provision of IPVPN over Metro-E(IPME) - Redundant cable routing structure and media diversity between TM exchange and new ATCC. - Telecommunication rerouting services for: - VHF radio, radar, ADS-B, AMSS, - MA AIS, ADS-C/CPDLC, domestic and International speech circuits - Digital microwave radio link. - Relocation of AFTN/AMHS system, aeronautical mobile units and RCC consoles and equipment.	2nd half of 2018
	Installation of Communication Equipment at: - New ATCC - VHF AND E-VHF radio system - Voice communication switching system, - Audio recording and replay system - Time reference system - Relocate RCC SARIS, COSPAS, SARAN equipment - New VCSS for SAR - Emergency radio access device (ERAD)	2nd half of 2018
	- Subang Tower - VCS system - Audio recording and replay system - VHF radio system	2nd half of 2018
	- KLIA - VCSS and VRS Expansion - VHF Radio System	2nd half of 2018
	- Kuala Terengganu - VCSS for SAR	2nd half of 2018
	- Remote VHF Radio System to cover new airspace sectorization at: G. Brinchang, Jerteh, Pelindong, - Melawati, Mentakab, Bukit Tinggi, Muar - Senai, Gunung Raya, Penang	2nd half of 2018
	- Sabah and Sarawak - SAR VCSS at Kota Kinabalu ATCC, Kuching ATCC, Tawau airport tower, Miri airport tower	2nd half of 2018
	Installation of Navigation system at: - New ATCC - GNSS National Monitoring System (NMC)	1st half of 2018
NAVIGATION	- Tanjong Sepat - Distance Measuring Equipment (DME)	2nd half of 2018
	- KLIA - DVOR/DME for Runway 3 - Ground Based Augmentation System (GBAS) - GNSS Local Monitoring System (LMS)	2nd half of 2018
	- Penang Tower - GNSS Local Monitoring System (LMS)	2nd half of 2018

FACILITY	WORK ITEMS	TARGET OPERATION DATE
SURVEILLANCE	Installation of Surveillance Systems at: a. Genting Automatic Dependant Surveillance Broadcast station (ADS-B)	2nd half of 2017
	a. KLIA - Civil works 2 Terminal Approach Radar (Primary and Secondary Mode S capability)	2nd half of 2018
	a. Mersing - Civil works 1 Enroute Radar (Secondary Mode S capability)	2nd half of 2018
	a. New ATCC Surveillance Performance Monitoring System (SPMS)	2nd half of 2018
	a. Langkawi - Civil works 1 Terminal Approach Radar (Primary and Secondary Mode S capability) - Automatic Dependant Surveillance Broadcast station (ADS-B)	2nd half of 2018
AIR TRAFFIC MANAGEMENT (ATM)	Installation of Air Traffic Management Equipment at:- a. KLIA - FDPS Expansion - TMS Expansion - Aerodrome Clearance Delivery (ACD) relocation	2nd half of 2018
	a. Malacca Tower Radar Data Display	1st half of 2019
	a. New ATCC - Air Traffic Management System - Audio, Video, Environment Recording and Replay System	1st half of 2019

5 OPERATION OF THE NEW ATCC COMPLEX

5.1 The new ATCC complex in KLIA Sepang when commissioned for operation in 2019 is expected to operate in parallel with the existing ATCC in Subang for a transition period of 6 months before complete migration to the new centre. This AIC is published for the advance information of aircraft operators, aviation industry and aviation authorities. Details and further information will be published in subsequent AICs and AIP Supplements.

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