BIMT/5-IP04

BIMT/ATM/CG/5-IP/**
18-21 September 2017

Fifth Bangladesh, India, Myanmar and Thailand
ATM Coordination Group Meeting BIMT-ATM/CG/5
18-21 September 2017, New Delhi, India

Agenda Item *-*-ADS-B Data Sharing

ADS-B DATA SHARING PREPAREDNESS

(Presented by Department of Civil Aviation, Myanmar)

SUMMARY

This Information paper presents the preparedness of Myanmar for sharing ADS-B data with India.

Relevant Strategic Objectives:

A: Safety

B: Air Navigation Capacity and Efficiency

C: Environmental Protection and Sustainable Development of Air Transport

1. INTRODUCTION

1.1 Myanmar and India have signed the Memorandum of Understanding for ADS-B data sharing on 6th May 2015. Myanmar and India agreed that India will provide Agartala & Port Blair ADS-B data to Myanmar and Myanmar will provide Sittwe & Co Co. Island ADS-B data to India. This paper presents the requirements at both user-end for ADS-B data sharing.

1.2 ADS-B data sharing between India and Myanmar is the result of initiative taken at the eleventh meeting of APANPIRG ADS-B SITF in April 2012. Recommendation 1/7 of the ICAO AN CONF/12 recognizes the effective use of automatic dependent surveillance - broadcast (ADS-B) and associated BIMT/3−WP/XX 15 -17 December 2015 Page of communication technologies in bridging surveillance gaps and using ADS-B data to enhance safety, increase efficiency and achieve seamless surveillance.

2. DISCUSSION

2.1 State letter of Agreement for ADS-B Collaboration has been signed DCA, Myanmar and AAI, India.

2.2 Myanmar has installed and implemented the ADS-B ground stations at Sittwe & Co Co. Island and integrated the ADS-B data to Surveillance Display System in Yangon ACC.

2.3 One E1 IPLC line connection has been established between Yangon and Kolkata for using VOIP Direct Speech Circuit line in March 2016. But this connection is not reliable due to submarine fiber cable problem in Bay of Bangle area.

2.4 ADS-B data of Sittwe and Co Co. Island are achieved at Yangon ACC in May 2016 via VSAT communication. Co Co. Island operated only for 12 hours / day due to using of generator power. There are trying to implement of Solar Power system for 24 hours operation.

2.5 Requirements data of ADS-B ground Station to implement at Yangon ATC Automation System are:

1. SAC, SIC code
2. Lat, Long position (WGS84)
3. Multicast IP address and UDP port
4. Unicast IP address of each ground station
5. ADS-B asterix Cat 21 version 0.23 format and later.

2.6 For ADSB data transfer from Yangon to Kolkata and vice versa minimum 128 Kbps bandwidth media is required.

2.7 Hardware requirements for ADS-B data sharing may be assessed and provided at respective ATCC by Myanmar and India.

2.8 Myanmar is one of pioneer states in CRV Project and has a plan to implement CRV connection in near future for more reliable and smooth connectivity to neighboring countries.

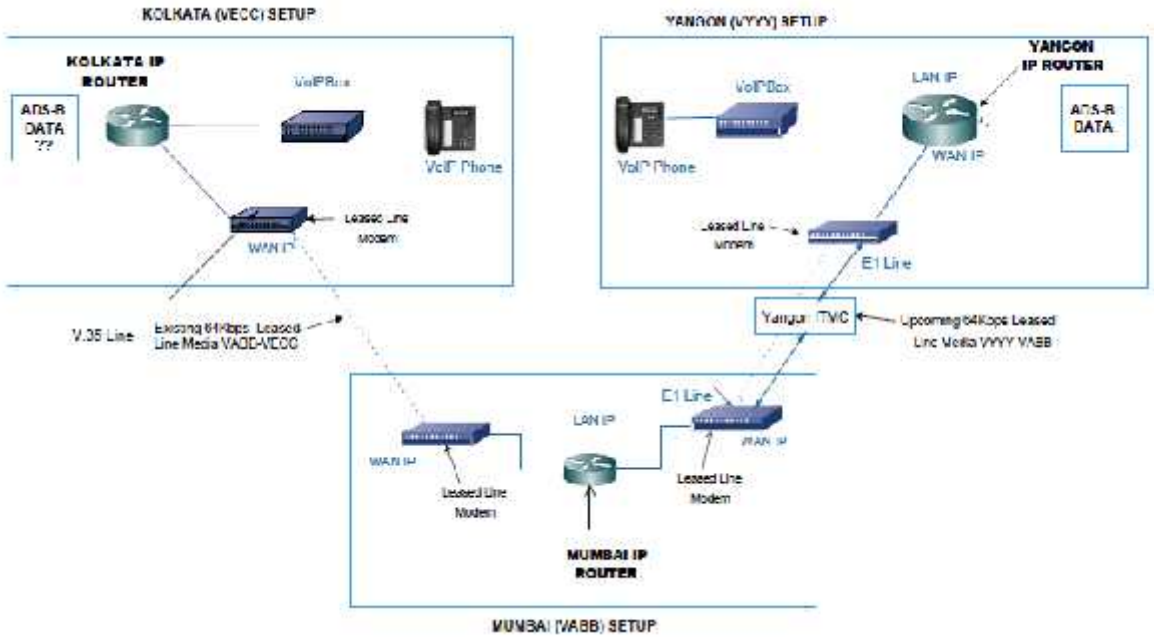
3. ACTION BY THE MEETING

3.1 The meeting is invited to:

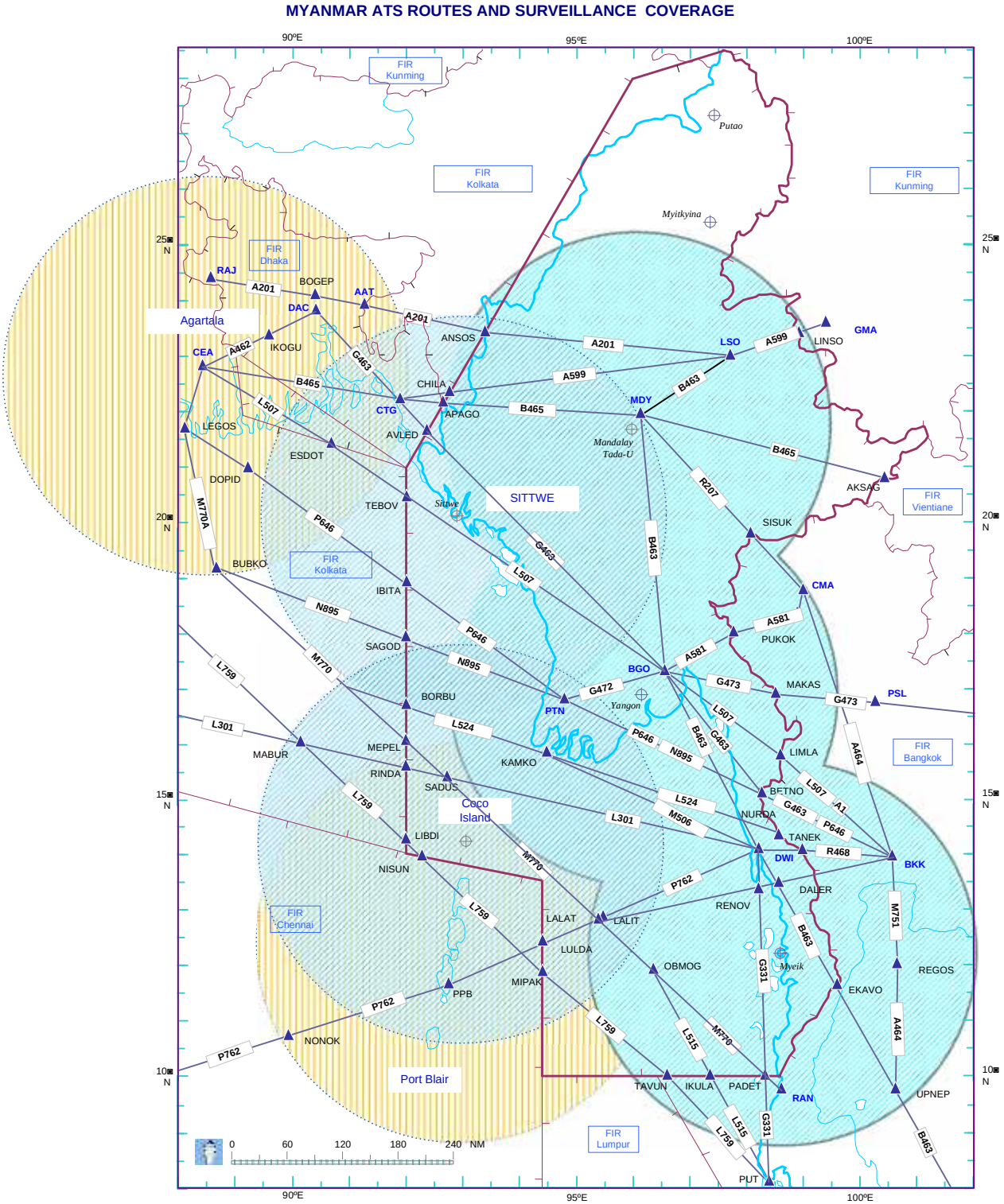
a) note the information contained in this paper

b) discuss any relevant matters as appropriate and

c) prepare a Road map for implementation.



Existing E1 IPLC connection between Kolkata and Yangon and installed equipment for DSC .



ADS-B coverage at Yangon FIR and ADS-B data sharing Area Between Myanmar and India

Coco Island and Sittwe ADS-B station's Setup

CoCo Island	Alias	SIC	SAC	IP-Address	Gateway	Mode-S	ASTERIX-Output	auxiliary Ast- output
AS680 (1)	COCOA	81	52	xx.xx.xx.xx	xx.xx.xx.xx		233.xx.xx.xx Port xxxx	233.xx.xx.xx Port xxxx
AS680 (2)	COCOB	82	52	xx.xx.xx.xx	xx.xx.xx.xx			
Sitemonitor 1						704801		
Sitemonitor 2						704802		
UPS Controller	COCOUPS			xx.xx.xx.xx	xx.xx.xx.xx			

Sittwe		SIC	SAC	IP-Address	Gateway	Mode-S	ASTERIX-Output	auxiliary Ast- output
AS680 (1)	SITTWEA	83	52	xx.xx.xx.xx	xx.xx.xx.xx		233.xx.xx.xx Port xxxx	233.xx.xx.xx Port xxxx
AS680 (2)	SITTWEB	84	52	xx.xx.xx.xx	xx.xx.xx.xx			
Sitemonitor 1						704803		
Sitemonitor 2						704804		
UPS Controller	SITTWEUPS			xx.xx.xx.xx	xx.xx.xx.xx			