

Ministry of Communications

and Information Technology (MCIT)

Request for Proposal

Exhibit A
Technical & Programmatic specifications

*Date: 10th August, 2015*

*This document is confidential and is intended solely for the use and information of the party to whom it is addressed.*

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*Documents*

*Applicable Documents*

*The documents listed herein shall be fully applicable and complement the content of this document.*

| ***Title of the Document*** | ***Version*** | ***Ref.*** |
| --- | --- | --- |
| *Instructions to Bidders* |  | *AD1* |
| Appendix A: Pro-format Contract and Terms and Conditions |  | AD3 |
|  |  |  |

*Referenced Documents*

*The following documents contain provisions which, through reference in this document, constitute provisions of requirements in this document.*

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# *Introduction*

## *Objectives*

The Myanmar Ministry of Communications and Information Technology (MCIT) intends to enter into a condosat agreement through the lease of multiple satellite transponders in C-band and Ku-band, and in this aim is pleased to release a Request for Proposal (RFP).

This document includes the technical specifications of MCIT request.

## *Reminder: Top-level requirements and constraints*

*The top-level requirements and constraints are included in the Instructions to Bidders (§3.2) and recalled below as a reminder.*

*The top-level constraints consist in the ones, which cannot be modified or by-passed for any of the solution proposed (baseline or alternative).*

1. All C-band shall be on board on single satellite or eventually multiple satellites collocated in the same orbital position.
2. All Ku-band shall be on board on single satellite or eventually multiple satellites collocated in the same orbital position.
3. The satellite shall be located within the 55°E-140°E orbital arc.
4. Capacity shall be readily available for a start of operations by November 1st, 2015.
5. Capacity shall be leased for a three year term with a possibility of renewing twice, each time for a one year period.
6. Capacity shall be renamed by MCIT and branded under the selected name.
7. The satellite system shall provide at least the following services:
	1. Commercial VSAT services;
	2. Broadcast services;
	3. Trunking services/cellular backhaul.

## *Targeted Capacity*

1. The system shall meet the mission requirements defined in AD1. Requirements are recalled below for clarity purpose:

Capacity in C-band and Ku- band are required by MCIT, summarized in Table 1 below. The below characteristics are given as objectives. The bidder shall make its best efforts to comply with these capacity attributes and shall identify any deviation from the below objectives. On the other hand, any improvement compared to the below figures will be taken into account in the evaluation for the bidder’s benefit.

***Table 1: MCIT envisaged capacity (Baseline Proposal)***



# *Capacity main specifications*

## *Coverage*

1. Coverage to be completed based on agreement.

## RF Performance

1. RF performance (EIRP, G/T, XPD) to be completed based on agreement.
2. If applicable (coordination agreement constraints), restricted performance to be stated.

## Frequency plan

1. Frequency plan to be completed based on agreement.

## Channel performance

1. Channel performance to be completed based on agreement.

# *Other deliverables specifications*

## Support Services

1. The Contractor shall provide round the clock on-call support service for the complete lease contract duration.
2. The Contractor shall provide operation support service during the term of the condosat agreement, including but not limited to
	1. Support to Migration of ground segment (in case upgrade or retrofit is required)
	2. Support to transponder loading/planning & customer request accommodation

## Additional Support Services

1. As an option (WP3b), the Contractor shall deliver any additional items that it deems necessary for MCIT to operate the leased capacity and fulfill their business objectives and obligations.
2. As an option (WP3b), the Contractor shall support MCIT in the development or purchase of Ground Segment tools (such as Link Budget tool, Transponder Planning tool, Communication System Monitoring tool…).
3. Any additional service, deemed important, by the Contractor, should be proposed as an option.

## Training

1. The Contractor shall train MCIT staff to ensure their ability to manage the leased capacity, accommodate their end-customers’ requests, interface efficiently with the Contractor’s technical team, and get an overview of satellite design and operations.
2. The Contractor shall recommend to MCIT an appropriate staffing organization to fulfill their business objectives and needs. The Contractor shall define and agree with MCIT the training program to develop human resources.
3. The training program shall include, but not be limited to:
	1. Satellite communications basics;
	2. Satellite and Capacity management;
	3. Ground segment management and interference handling;
	4. Basic of satellite design;
	5. Basic of satellite operations.
4. The Contractor shall provide the defined training.
5. The training program shall consist in a minimum of XXX days. [To be completed during Contract finalization]

# Programmatic Requirements

* 1. **Program organization**
1. The Contractor shall present to MCIT a Project Organisation Chart identifying the Key Project Personnel by name and responsibility.
	1. **Meetings and reviews**
2. The Contractor shall schedule and support a quarterly Management meetings during the term of the agreement.
	1. **Discrepancies**
3. Outage, Non-conformances, problems, issues, etc. are referred to as “discrepancies”.
4. Discrepancies shall be reported to MCIT when occurring and summarized as part of a quarterly management report.
5. The quarterly management report shall include an assessment and justification of outage credits.

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