

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ

## **SIGNALS**

Maldives National Defence Force  
Republic of Maldives

## **REQUEST FOR PROPOSAL**

**CABLE TV / IPTV SERVICE**

**TECHNICAL SPECIFICATION**

**10<sup>th</sup> January 2023**

**v1.4**

## Introduction

Service providers are requested to provide their proposals as per the requirement and specifications contained herein the Request for Proposal (RFP). This RFP consists of 2 parts; part 1 defines technical Requirement for IPTV Service to the Maldives National Defence Force Headquarter (MNDF HQ). Part 2 defines Technical Requirement for Cable TV / IPTV Service to the Maldives National Defence Force (MNDF) Area Command Headquarters and Outposts.

Contractor may propose any one Part/lot (i.e., Partial bids) or 2 parts/lots together; however, each proposed part must entirely match the defined requirements (General requirement with the selected part(s)). The Parts/lots are described as follows:

**a. Part/Lot 1: IPTV Service for MNDF HQ**

**b. Part/Lot 2: Cable TV / IPTV Service for MNDF Area Command HQs and Outposts**

## Technical Evaluation

MNDF shall evaluate and compare the proposals based on the following:

- a. Completeness and responsiveness of proposals.
- b. Compliance with technical specification.
  - The technical proposals of supplier shall be evaluated based on PASS/FAIL criteria.

## General Requirements

1. Technical focal point should be identified by the service provider to provide prompt technical assistance to MNDF when required.
2. MNDF SIGNALS must be informed of any major technical works that is scheduled to be carried out OR any major technical faults occurred by the service provider which might lead to any service interruptions and must be informed as soon as the issue(s) rectified and service(s) back running.
3. Bidders must provide the service in accordance with the requirements and specification specified in this RFP. The response should include the bidder's ability to provide the listed channels and the required contents.
4. Bidders should provide technical details and prices separately for each Part/Lot.
5. Bidders are required to provide price details for the monthly subscription and installation charges.

6. Service provider shall include all means, methods, supplies and labor necessary to provide the service.
7. Contents and channel line-up for the Part 1 and Part 2 is in List 1.

## **PART 1: IPTV SERVICE FOR MNDF HQ**

This part of the RFP provides the technical requirements for the MNDF HQ IPTV service. The service provider shall deliver the TV channels by Video Streaming URLs, and the stream will be added to the IPTV middleware (IPTV headend). In addition, IPTV Transcoder hardware required by MNDF should also be provided. Service providers must meet the following technical requirements.

### **1.1 IPTV Stream Requirements**

#	Site / Location	Minimum No of Channels Required	Medium	Streaming Protocols Required	Contents and Channels Required
1	MNDF HQ Bandaara Koshi	36	Streams	Multicast (RTP or UDP)	List 1

#### **1.1.1 Technical requirements**

1. Minimum number of channels required is 36.
2. Multicast streaming URL should be provided for each channel.
3. Multicast stream should be provided in H.265
4. Multicast stream should be provided in 1080p 30fps (< 8 Mbps) per channel or stream.
5. If any hardware is required to provide the multicast stream it should be provided by the bidder.
6. Required contents and channels in List 1

#### **1.2 Hardware requirements**

The flowing IPTV Transcoder hardware (or equivalent alternative hardware/solution based on the proposed hardware specs) should be provided by the bidder.

**Brand: DIBSYS**

**Model: ANYSTREAM420H**

**Quantity: 02 (Two)**

Note: If any license is required for the hardware, it should be provided along with the hardware.

## PART 2: CABLE TV / IPTV SERVICE FOR MNDF AREA COMMAND HQs AND OUTPOSTS

This section of the RFP provides site locations and the number of set-top boxes required for each site or location. Service providers must meet the following technical requirements of MNDF SIGNALS.

This part of this RFP provides the site locations and the number of connections required per site or location. The Service Provider must meet the following Technical Requirements by MNDF SIGNALS.

### Site Locations and Number of Connections Required

#	Site / Location	Points	Medium	Source Output	Channel Required
1	MNDF NA Uligamu Post, HA. Uligamu	2	Cable / IPTV	HDMI	List 1
2	MNDF NA Hanimaadhoo Post, HDH. Hanimaadhoo	2	Cable / IPTV	HDMI	List 1
3	Dhihadhoo Fire Station, HA. Dhihadhoo	1	Cable / IPTV	HDMI	List 1
4	MNDF Air Wing, HDH. Hanimaadhoo	1	Cable / IPTV	HDMI	List 1
5	MNDF NA Kulhudhufushi Post, HD. Kulhudhufushi City	2	Cable / IPTV	HDMI	List 1
6	MNDF NA Kulhudhufushi Fire Station,	1	Cable / IPTV	HDMI	List 1
7	MNDF NA Naifaru Fire Station, Tulip Hingun, LH. Naifaru	1	Cable / IPTV	HDMI	List 1
8	MNDF NA HQ LH. Maafilaafushi	14	Cable / IPTV	HDMI	List 1
9	Bandaara Koshi, Ameeru Ahmed Magu	4	Cable / IPTV	HDMI	List 1
10	Bandeyri Koshi, Raidhebai Hingun, Male'	1	Cable / IPTV	HDMI	List 1
11	Operation and Maintenance Section, Boduthakurufaanu Magu	1	Cable / IPTV	HMDI	List 1
12	Kudakudhinge Bageecha, Ameenee Magu	1	HITS / IPTV	HDMI	List 1
13	Port and Harbor Security, Boduthakurufaanu Magu	1	HITS / IPTV	HDMI	List 1
14	Vilimale Fire Station, Male Hingun, Vilimale	1	HITS / IPTV	HDMI	List 1
15	MRCC Vilimale, Male Hingun, Vilimale	3	HITS / IPTV	HDMI	List 1
16	MNDF Hulhule Post, K. Hulhule	11	Cable / IPTV	HDMI	List 1
17	MNDF VIA Office, Velana International Airport, Terminal Side	2	Cable / IPTV	HDMI	List 1
18	MNDF Funadhoo, K. Atoll	1	Cable / IPTV	HMDI	List 1
19	MNDF Kalaaseenu Koshi, Midhili Magu, Hulhumale	7	Cable / IPTV	HDMI	List 1
20	MNDF Hulhumale Fire Station, Midhili Magu, Hulhumale	1	Cable / IPTV	HDMI	List 1
21	MNDF Hulhumale Flat 09-2-02, Hithigasmagu - 07 Goalhi	1	Cable / IPTV	HDMI	List 1
22	MNDF Hulhumale Flat 09-2-3, Hithigasmagu - 07 Goalhi	1	Cable / IPTV	HDMI	List 1

23	MNDF Hulhumale Flat 09-2-04,Hithigasmagu - 07 Goalhi	1	Cable / IPTV	HDMI	List 1
24	Aarah, K. Atoll	9	Cable / IPTV	HDMI	List 1
25	Girifushi, K. Atoll	5	Cable / IPTV	HMDI	List 1
26	MNDF Sifavaru (Uthuru Thila Falhu), K. Atoll	2	Cable / IPTV	HDMI	List 1
27	MNDF Thilafushi Post, K. Atoll	1	Cable / IPTV	HDMI	List 1
28	MNDF MA Maamigili Post, Soasun Goalhi,ADH. Maamigili	2	Cable / IPTV	HDMI	List 1
29	MNDF CA HQ, Kadhdhoo, L. Kadhdhoo	10	Cable / IPTV	HDMI	List 1
30	MNDF CG Watch Post, L. Kadhdhoo	1	Cable / IPTV	HDMI	List 1
31	MNDF CA Muli Post, M. Muli	1	Cable / IPTV	HMDI	List 1
32	MNDF CA Kudahuvadhoo Post, DH. Kudahuvadhoo Post,	1	Cable / IPTV	HDMI	List 1
33	MNDF CA Nilandhoo Fire Station, F. Nilandhoo	1	Cable / IPTV	HDMI	List 1
34	MNDF SA Hithadhoo Fire Station,Miriyaas Magu, Addu City	1	Cable / IPTV	HDMI	List 1
35	MNDF SA Kaadehdhoo Post, GDH. Kaadehdhoo	2	Cable / IPTV	HDMI	List 1
36	Thinadhoo Fire Station, GDH. Thinadhoo	1	Cable / IPTV	HDMI	List 1
37	MNDF SA Fuvahmulah Post, Valifannu Magu, Fuvahmulah City	2	Cable / IPTV	HDMI	List 1
38	MNDF SA Fuvahmulah Fire Station, Ghazee Magu, Fuvahmulah City	1	Cable / IPTV	HDMI	List 1
39	MNDF CG Watch Post, Fuvahmulah	1	Cable / IPTV	HDMI	List 1
40	MNDF SA HQ, S. Gan	12	Cable / IPTV	HMDI	List 1
41	MNDF CG Watch Post, S. Gan	1	Cable / IPTV	HMDI	List 1
42	MNDF Hulhumeedhoo Fire Station, S. Hulhumeedhoo	1	Cable / IPTV	HDMI	List 1
	<b>TOTAL</b>	<b>116</b>			

**Note: Service providers can submit set-top boxes/decoders' price as an optional item**

**LIST 1**

**The following must be included in the channel line-up at minimum.**

#	Category	No of Channels	Minimum Requirement	Bidders Response	
				No of Channels	Contents viewable from these channels
1	Local	7	<ol style="list-style-type: none"> <li>1. TVM HD</li> <li>2. PSM News</li> <li>3. VTV</li> <li>4. Raajje TV</li> <li>5. Channel 13</li> <li>6. Sangu TV</li> <li>7. Yes TV</li> </ol>		
2	International News	4	<ol style="list-style-type: none"> <li>1. CNN</li> <li>2. BBC</li> <li>3. Aljazeera</li> <li>4. additional channel</li> </ol>		
3	Hindi Entertainment	6	<ol style="list-style-type: none"> <li>1. 2 channels should be for Hindi movies.</li> <li>2. 3 channels should be for Hindi Drama / Series</li> <li>3. 1 channel should be for Hindi Drama/Series and Movies</li> </ol>		
4	English Entertainment	8	<ol style="list-style-type: none"> <li>1. 4 channels should be for English movies.</li> <li>2. 4 channels should be for Drama series or reality programs or documentaries.</li> </ol>		

#	Category	No of Channels	Minimum Requirement	Bidders Response	
				No of Channels	Contents viewable from these channels
5	Infotainment	4	<ol style="list-style-type: none"> <li>1. 3 channels should be related to reality television or programs.</li> <li>2. 1 channel should be related to documentaries.</li> </ol>		
6	Music	2	<ol style="list-style-type: none"> <li>1. 1 channel should be for Hindi songs.</li> <li>2. 1 channel should be for English songs.</li> </ol>		
7	Sports	5	<ol style="list-style-type: none"> <li>1. The following Football league, cup or games should be viewable (concurrent 2 matches should be viewable if present at same time)                             <ol style="list-style-type: none"> <li>1.1. English premier league</li> <li>1.2. English FA Cup</li> <li>1.3. English EFL Cup</li> <li>1.4. Spanish LaLiga</li> <li>1.5. Italy Serie A</li> <li>1.6. French Ligue 1</li> <li>1.7. Champions League</li> <li>1.8. Europa League</li> <li>1.9. Club World Cup</li> <li>1.10. Euro / World Cup</li> </ol> </li> <li>2. The following cricket cup, tournaments, or matches should be viewable.                             <ol style="list-style-type: none"> <li>1.1. ICC Cricket World Cup</li> <li>1.2. ICC Championship Trophy</li> <li>1.3. Asia Cup</li> <li>1.4. T20 World Cup</li> <li>1.5. IPL</li> </ol> </li> </ol>		

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