Government of India
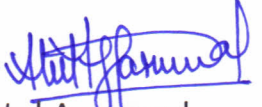**Consulate General of India**
Hambantota, Sri Lanka

INVITATION TO BIDS

Invitation for quotation from reputed firms having experience in Video Conference Equipment for supply and installing at Consulate General of India, Hambantota.

The specifications of the required equipment are attached herewith and may also be seen at Consulate General of India, Hambantota website: www.cgihambantota.gov.in. The details and rates shall be sent in sealed cover to the office of the undersigned at No. 107 B, New Road, Hambantota latest by 04th December 2019 at 15:00 Hrs, which shall be opened on 05th December 2019 at 15:00 Hrs by the purchase committee of Consulate General of India, Hambantota duly constituted for the purpose.

The Consulate reserves the right to accept or reject any of the bid(s). No correspondence in this regard will be entertained.

Suppliers requiring any clarification, may email at hoc.hambantota@mea.gov.in

Atul Aggarwal
Vice-Consul (AD)
14.11.2019

Essential Technical Specifications of Video Conferencing Equipment:

The minimum Essential Technical Specifications of VC equipment (as per Ministry's requirements) is mentioned bellow:

1. Video Coding Standards – H.264 SVC & AVC.

2. Audio Coding Standards – G.722, G.722.1, MPEG-4, AAC-LC.

3. Live Video Features – 720p30, <u>1080p60 (preferable).</u>

4. Minimum Bandwidth required for video quality (1080p60) at End Point/Far-site end = 1Mbps.

5. **Interface to record the ongoing video Conferencing Session** of both Near End and Far End along with mixed Audio @ 1080p60 **through USB within Codec in device** (Not through cloud/Network based/Server Based).

6. The End point should have capability to upgrade to multi-point (at least 1+3 Sites) @1080p60 Full HD, in future, by using add-on software on existing codec over IP (Not via external hardware/Server /Cloud).

7. End point should support multipoint calls at full HD 1080p60 resolution in continuous presence mode (DHCP).

8. End point should have 1080p60fps PTZ camera with minimum 10X Optical Zoom.

9. The complete solution which includes Software and Hardware bundle should be from the same OEM.

10. The Codec should be an independently/specifically designed standalone device with embedded menu driven GUI, Audio-Video I/O Ports, Network and control ports etc. inbuilt on its back plane.

11. Should be H.323 and SIP Complaint (It should be IP Based Hardware System not a PC Based stack up system with software loaded on it).

12. Built-in acoustic echo canceller with noise reduction.

13. Input/output ports:

   a. Input- 2xHDMI/DVI ports
   b. Output- 2xHDMI/DVI ports

14. No. of Microphones supported – at least 1.

15. No. of Camera supported (should be from same OEM) – 1

16. It should support Far End control protocol H.281

17. It should support H.239 dual stream protocol for sending/receiving content/presentation along with Full HD live video.

18. One line level auxiliary audio output to connect external audio system.

19. Interface (HDMI/VGA) to connect Laptop/PC/Console.

20. Should be IP Based (ISDN?BRI not required)

21. Should support dual monitors for display.

22. Picture-in-picture of side picture support.

23. High quality microphones with echo cancellation

24. Support for additional/external high quality microphone

25. Behind Network Address Translation (NAT) firewall traversal.

26. Global Directory- Display of active participants/H.350/LDAP protocol

27. E.164 dialing using H.323 Gatekeeper

28. Web based management for video conferencing endpoint