No. Lil/Adm/885/01/2018
High Commission of India
(Lilongwe)

Subject:- Procurement/installation of Video Conferecing Systems at High Commission of India, Lilongwe.

Proposal :

The High Commission of India invites proposals from interested IT companies in Malawi for procurement and installation of Video Conferencing System at the premises of High Commission of India in Lilongwe at Plot No. 55/ Area 9.

Description of the work:

Minimum essential features required are specified in the attached list.

Advertisement :

The advertisement would be placed on the Central Public Procurement Portal of Govt of India, Mission's website as well as advertised in the local English newspapers inviting quotations from interested companies. The Companies would be required to provide quotation in two parts, i.e. technical bid and financial bid but should be sent in one single envelope.

Last date of Bid & opening of Bid :

The quotations would be accepted latest till 23rd March, 2018 and the bid would be opened on 26th March, 2018 at 1000 hrs.

Criteria :

The technical criteria would be examined firisit and price bids for only those companies would be examined who meet the technical criteria. The decision taken by the High Commission would be final.

Point of Contact :

Mr. Puran Mehra, Attache (Admin) in the High Commission of India, Lilongwe would be the point of contact. His address and contact details are given below:

Plot No. 55, Area 9, Lilongwe (Malawi)
Tel. No. 01751043
Fax No. 01755346
E-mail : adm.malawi@mea.gov.in

(Anil Kumar)
Head of Chancery
26th February, 2018

Essential Technical Specifications of Video Conferencing Systems

The minimum essential technical specifications of VC equipments (as per Ministry's requirements) are mentioned below:

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, 1080p30, <u>1080p60 (preferable)</u>.

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

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

6. The End point should have capability to upgrade to multi-point (atleast 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 Compliant (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 –atleast 1.

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

16. IPV6 ready.

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

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

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

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

21. Should be IP Based (ISDN/BRI not required)

22. Should support dual monitors for display.

23. Picture-in-picture of side by side picture support.

24. High quality microphones with echo cancellation

25. Support for additional/external high quality microphone

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

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

28. E.164 dialing using H.323 Gatekeeper

29. Web based management for video conferencing endpoint