



**(A Government of India Enterprise)**

Corporate and Registered Office,  
HLL Bhavan, Poojappura,  
Thiruvananthapuram– 695 012  
Kerala, India.

Phone: 0471 – 2354949

Website: [www.lifecarehll.com](http://www.lifecarehll.com)

**Invitation for Bids**

**Supply and Installation of HD based Video Conferencing System**

Date	:	12.09.2014
IFB No.	:	HLL/IT/CHO/VC/2014

The schedule of the bid is given below.

Last date and time for submission of e-tender	:	15.00 Hrs on 22.09.2014
Time and date of opening of Bids	:	15.30 Hrs on 22.09.2014

Dear Sir

**Sub: Supply and Installation of HD based Video Conferencing System**

HLL Lifecare Limited (HLL), Thiruvananthapuram invites sealed competitive bids from eligible and interested suppliers for supply and installation of video conferencing (VC) equipment (IP based) at our Central Marketing Office, Chennai (CMO) and Kanagala Factory Belgaum (KFB).

**Requirement and Scope of work:**

1. The successful bidder has to install the VC equipment at the locations (Multipoint VC equipment at CMO, Chennai and Point to Point VC equipment at KFB) for the purpose of video conferencing within HLL offices.
2. The VC system should facilitate conducting VC with outside offices other than HLL using internet (Static/public IP based) and should also enable participation of non-end point based location. The VC system should support VC with presentation.

The detailed Schedule of Requirements with Technical specifications are given in **Annexure - I**

**Terms and conditions**

1. The prospective bidder should have a minimum three (3) years experience in supply, installation, configuration and maintenance of video conferencing equipment. For this, the bidder can submit the documentary evidence of the following along with the bid.
  - The copies of Supply / work orders for the similar kind of items for the past three years.
  - Certificate from at least two clients for the similar works done.
2. The bidder should submit the Manufacturer Authorisation Form (MAF) /OEM authorization letter addressed to HLL Life care Limited for the product quoted, along with the bid.
3. The OEM of the quoted product / Bidder should have Authorized Service centers / Authorized Partners at Chennai and Belgaum/Bangaluru. The details may please be attached with the bid.
4. The bidder should have not been blacklisted by any state/central Government organizations/firms/institutions for which the self-certificate stating that the bidder has not been blacklisted by any institution of the Central / State Government in past three years may please be submitted.
5. The bidder may submit Certificate of incorporation and Audited Balance Sheet / Profit & Loss Account/Annual Report for the last three financial years along with the bid.
6. The prices for all the quoted products should be quoted as per the format for price schedule enclosed (**Annexure – II**).

7. In the price schedule, if there is any discrepancy between the unit price and total price the unit price shall prevail and the total price shall be corrected by the purchaser accordingly.
8. Rates quoted being door delivery basis, the Supplier shall be fully responsible till full material is received in good condition at consignee's site. As such the Supplier shall despatch the material duly insured.
9. The prices quoted shall be valid for a period of 90 days from the date of opening of bids.
10. Bids should be clear in all respects and those with ambiguous / conditional clauses shall be summarily rejected.
11. The exact make/brand and model of all the quoted products should be clearly mentioned in the bid.
12. All breakdown calls should be attended within 2 hours of intimation during warranty period.
13. Training should be provided at free of cost to the concerned person(s) at HLL for the operation of these items.
14. The bid shall be evaluated by taking the total amount quoted for all the items.
15. The purchase order shall be placed on the first lowest responsive bidder.
16. The bids should contain the complete technical specifications of the equipment supported with illustrative literatures/catalogues/brochures for all the items quoted with compliance statement and other relevant documents mentioned in the bid.
17. All the quoted products should have minimum of **one year** onsite warranty from the date of installation. During this period, repair/replacement of all the defective items/parts shall be provided by the supplier at free of cost.
18. The items should be delivered and installed at the respective location within **4 weeks** from the date of placement of order.
19. Penalty @ 0.50 % per week's delay subject to a maximum of 5 % is applicable for delayed delivery.
20. Necessary accessories, user manuals /CDs /DVDs for all the items are to be supplied along with the equipment.
21. HLL will have the right to increase or decrease up to 20% of the quantity of goods and services specified in the schedule of requirements without any change in the unit price or other terms and conditions.
22. **PAYMENT TERMS;**

Payments will be made in Indian Rupees only in the form of electronic fund transfer or by cheque payment from Corporate and Registered Office, Thiruvananthapuram. Payment of 95% of the total price of goods shall be made on receipt of goods by the purchaser and upon successful completion of installation. For claiming this payment the following documents are to be submitted to the paying authority.

- (i) Invoice (Three copies)
- (ii) Delivery Challan
- (iii) Installation certificate signed by both the user and the supplier's representative.
- (iv) Warranty Certificate

Payment of 5% of the total price of the goods shall be paid within 3 months from the date of installation against a Performance Bank Guarantee from a

Nationalized /Scheduled Bank for the 5% of the total value valid till the warranty period.

23. The bids should be submitted at the following address.

**Associate Vice President (IT)  
HLL Lifecare Limited  
Corporate and Regd. Office,  
HLL Bhavan, Poojappura,  
Thiruvananthapuram – 695 012,  
Phone: 0471- 2354949.**

24. Bids should be submitted on or before **15:00 Hrs on 22.09.2014** and the same **will be opened at 15.30 Hrs on the same day** at Corporate and Registered Office, HLL Bhavan, Poojappura, Thiruvananthapuram in the presence of the representative of the bidder who chooses to attend. If the bid opening day is declared as holiday, the bid will be opened at the next working day of HLL.

25. Any bid received after the deadline will be rejected.

26. HLL reserves the right to accept/reject any or all of the bids without assigning any reason whatsoever.

27. The envelopes containing the bid shall bear the words “DO NOT OPEN BEFORE .....” (Here insert the time and date of bid opening).

28. No Email or fax bids will be accepted.

29. Any dispute arising out of the tender/bid document/ evaluation of bids/issue of purchase order shall be subject to the jurisdiction of the competent court at Thiruvananthapuram only.

Thanking you,

Yours faithfully,

**P. Sivakumar  
Sr. Manager (Hardware)**

**1. Video Conferencing Unit – Point to Point (KFB)**

<b>Sl. No</b>	<b>Description</b>	<b>Specification</b>
<b>Video Conferencing unit with Camera, Codec and Microphone Array -1 Set</b>		
1.	Video Standards	H.263, H.263+, H.264
2.	Bandwidth	H.323 and SIP up to 6 Mbps
3.	Video Input	1 x HDMI port and 1 x DVI port (Analog and Digital)
4.	Video Out	At least 2 x HDMI port to connect displays.
5.	Input and Output Video support Formats.	Input: 640x480, 1024x768 1280x720, 1280x1024 1280x960, 1920x1080 Output: 1920 x 1080@50fps (1080p50) 1280 x 720@50 fps (720p50) 1280 x 768@60 fps (WXGA)
6.	HD Camera specifications	CMOS 12 x zoom Focus distance 0.3 m – infinity 1920 x 1080 pixels progressive @60 fps
7.	Audio Input ports	2 x microphones, 1 x 4-pin mini jack 1 x Mini jack for line in (stereo) 1 x Audio in from camera (HDMI)
8.	Audio Output ports	1 x mini jack for line out (stereo) 1 x HDMI, (digital main audio)
9.	Other Interfaces	2 x USB
10.	Audio Standards	G.711, G.722, G.722.1, 64 kbps MPEG4 AAC-LD
11.	Other Supported Standards	H224/H.281, H.323 Annex Q, H.225, H.245, H.241, H.239, H.243, H.460, Should also support BFCP (RFC 4562),
12.	Audio Features	CD-quality 20 KHz mono

		<p>Two acoustic echo cancellers</p> <p>Automatic Gain Control (AGC)</p> <p>Automatic noise reduction</p>
13.	Dual Stream	<p>H.239 (H.323) dual stream</p> <p>BFCP (SIP) dual stream</p> <p>Support resolutions up to 1080p (1920 x 1080)</p>
14.	Protocols	H.323, SIP
15.	Embedded Encryption	<p>H.323 and SIP point-to-point</p> <p>Advanced Encryption Standard (AES)</p> <p>Automatic key generation and exchange</p>
16.	Network parameters	One Ethernet (RJ-45) 10/100/1000 Mbps.
17.	IP Network Features	<p>DNS lookup for service configuration.</p> <p>Differentiated services (quality of service [QoS])</p> <p>IP-adaptive bandwidth management (including flow control)</p> <p>Auto gatekeeper discovery</p> <p>Network Time Protocol (NTP)</p> <p>Packet loss-based down speeding</p> <p>Uniform resource identifier (URI) dialing</p> <p>TCP/IP</p> <p>DHCP</p> <p>802.1x network authentication</p> <p>802.1Q Virtual LAN</p>
18.	Security	<p>Management using HTTPS and SSH.</p> <p>IP administration password.</p> <p>Menu administration password</p> <p>Disable IP services.</p> <p>Network settings protection.</p>
19.	Others	Remote Control and necessary cables.

## **2. Video Conferencing Unit – Multipoint (CMO)**

<b>Sl. No</b>	<b>Description</b>	<b>Specification</b>
<b>Video Conferencing unit with Camera, Codec and Microphone Array -1 Set</b>		
1.	Video Standards and protocols	H.261, H.263, H.264 AVC, H.264 SVC, RTV H.263 & H.264 video error concealment
2.	Video Input	1 x HD Camera (HDCI) 1 x HDMI 1.3 1 x VGA
3.	Video Out	At least 2 x HDMI 1.3.
4.	VC Video Resolution	1080p, 30 fps from 1024 Kbps 720p, 30 fps from 512 Kbps 4SIF/4CIF, 30 fps from 128 Kbps SIF (352 x 240), CIF (352 x 288) from 64 kbps
5.	Presentation Video Resolution	Input: HD (1920 x 1080i), HD (1920 x 1080p) WXGA (1280 x 768) HD (1280 x720p), XGA (1024 x 768) Output: HD (1920 x 1080) HD (1280 x 720) VGA (640 x 480) Frame rate - 5–60 fps (up to 1080p resolution at 60 fps) Content Sharing – VC+Presentation
6.	HD Camera specifications	HD Camera -1080p12x CMOS 12 x zoom 1920 x 1080 p resolution, 60 fps
7.	Audio Input ports	1 x 360 Degree Microphone array (supporting a total of 2 microphones)

		1 x HDMI 1 x 3.5 mm stereo line-in
8.	Audio Output ports	1 x HDMI 1 x 3.5 mm stereo line-out
9.	Other Interfaces	2 x USB 2.0 1 x RS-232 mini-DIN 8-pin
10.	Audio Standards and protocols	22 kHz bandwidth AAC-LD (TIP calls) 14 kHz bandwidth G.722.1 Annex C 7 kHz bandwidth with G.722, G.722.1 3.4 kHz bandwidth with G.711, G.728, G.729A
11.	Constant Clarity provision	Automatic gain control Automatic noise suppression Keyboard noise reduction Live music mode Instant adaptation echo cancellation Audio error concealment
12.	Other Supported Standards	H224/H.281, H.323 Annex Q, H.225, H.245, H.241, H.239, H.243, H.460 TIP
13.	Dual Stream	H.239 (H.323) dual stream BFCP (SIP) dual stream Support resolutions up to 1080p (1920 x 1080)
14.	Protocols	H.323, SIP
15.	Network parameters	IPv4 and IPv6 support 1 x 10/100/1G Ethernet H.323 and/or SIP up to 6 Mbps RS232 with API support



16.	IP Network Features	<p>DNS lookup for service configuration.</p> <p>Differentiated services (quality of service [QoS])</p> <p>IP-adaptive bandwidth management (including flow control)</p> <p>Auto gatekeeper discovery</p> <p>Network Time Protocol (NTP)</p> <p>Packet loss-based down speeding</p> <p>Uniform resource identifier (URI) dialing</p> <p>TCP/IP</p> <p>DHCP</p> <p>802.1x network authentication</p> <p>802.1Q Virtual LAN</p>
17.	Security	<p>Media Encryption (H.323, SIP): AES-128, AES-256</p> <p>SSL 3.0, TLS 1.0, 1.1, 1.2</p>
18.	Software Options	<p>TIP interoperability</p> <p>1080p license, providing up to 1080p60 for VC and presentation</p> <p>Multipoint license for up to 1+3 sites</p>
19.	Others	Remote Control and necessary cables.

**Address of location**

**1. KFB- HLL Lifecare Limited,**

Kanagala Factory,  
 Belagaum,- 591 225  
 Karnataka.  
 Phone: 08333-279206

**2. CMO- HLL Lifecare Limited**

No.185, Plot No:1, 100 ft.Byepass Road,  
 Vijayanagar, Velacherry,  
 Chennai – 600 042,  
 Phone: 044 – 22441727

Price Schedule							Annexure – II			
SI.NO	Description of item / work	Unit	Quantity	Basic Price (Rs)	Taxes/ Duties (Rs)	Other incidental costs if any (Rs)	Total Price for each unit (Rs)	Amount (Rs)		
1	2	3	4	5	6	7	8= 5+6+7	9= 4 * 8		

Total Price (in Figure) : Rs.....

Total Price (in words) : Rs. ....