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NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH
Taramani P.O., Chennai – 600 113.

(Government of India, Ministry of Human Resource Development)

Ref. No. NITTTR/ 17-18/

Date: 11.05.2018

To

Delivery required by :

**NITTTR
Chennai**

QUOTATION DUE DATE

- (a) Please send your quotation within the due date on sealed envelope on or before:
Date: 22.05.2018
- (b) Delivery required at : **NITTTR, TARAMANI, CHENNAI -113**

Sl.No.	Description of Items	Material Code
1.	Video Conferencing System (Details of specification in Annexure – 1 and Quote included the installation Cost)	VC
	Note : 1. Mention the period of Warranty 2. Indicate the Reference No. and the last date on the Envelope 3. Our Institute is exempted from Customs duty. 4. TIN/TNGST/CST Registration No. must be furnished (Enclose Pamphlets, if any) 5. GST for the above item is 5% for our institute	

Cover should be addressed to:

**Dr. V. Shanmuganeethi,
Dept. of CSE
National Institute of Technical Teachers Training and Research,
Taramani P.O., Chennai – 600 113.**

(For terms and conditions please see overleaf)

**–sd–
for DIRECTOR**

Terms & Conditions

1. The quotation must specify the period within which the supply could be effected from the date of receipt firm orders.
2. Quotation received after the due date mentioned on the reverse will not be considered.
3. Your quotations should be for materials strictly in accordance with the specifications shown. In case you are offering substitutes state clearly the exact specification etc, of the materials offered Drawing sketches or any other technical data should be submitted separately.
4. The prices quoted should clearly specify charges for delivery of the goods to destination indicated overleaf.
5. The prices quoted should include all packing costs and it will be assumed that packing materials (cases etc..) are non-returnable unless otherwise stated.
6. GST or any other taxes if applicable should be shown separately giving the full rate of taxes for each items giving ex-incidence of such levies.
7. The Director reserves the right to accept the whole or part of any quotation without assigning any reason and the lowest or any quotation will not necessarily be accepted, and the Director's decision shall be the final.
8. Samples must accompany the quotation when so specified or within two days when asked for later.
9. If it is discovered that the materials supplied are not exactly according to the specification, the entire stock will be rejected.
10. We reserve the right to inspect the goods offered at any stage of manufacture / supply at your premises.
11. Any dispute arising out of or relating to this Enquiry shall be deemed to have arisen in Madras and is subject to adjudication of the Madras Courts.
12. Rates quoted once will remain firm for that particular dealing.
13. The quotation should be kept valid for a period of 60 days from the date of opening for acceptance.
14. Payment will be made after confirmation on receipt of the materials in good condition at this Institute (normally within 30 days.) Advance payment will not be entertained at any circumstances.
15. Printed conditions of the firm sent along with the quotation form if any, shall not be binding on us.
16. In case of Printing the Proof should be got approved before final strike.
17. Materials should be supplied at this institute in good condition.
18. Price quoted by the suppliers accepted by the Director is final, and no deviation there from will be accepted without the Director's agreement in writing.
19. If the rates are under D.G.S. & D. Please specify the same clearly enclosing necessary documents.

Annexure - 1

The proposed system must support PAL with a PTZ camera. The codec must be based on ITU standards The VC End Point should be codec based hardware. No software based solution is accepted here. All components of the VC system like Codec, Camera and Microphone should be from the same OEM.			
Sl. No.	Description	Specification Parameter	Compliance
1	Package	Full HD 1080p60 camera, codec, Microphone Array, cables, and remote control	
2	Video Standards and Resolutions	Support H.323, SIP standards for communications.	
		Support H.261, H.263, H.264 AVC/ SVC, H.264 High Profile	
		Support 1080p 60 fps, 1080p 30 fps, 720p 60 fps and 720p 30fps	
3	Content Standards and Resolutions	Support content sharing using standard based H.239 and BFCP over SIP. It should also support audio from PC used for content sharing.	
		Transmit both people and content both simultaneously to the far end location at 1080p 30fps	
4	Audio Standards and Features	Support G.711, G.728, G.729A, G.722, G.722.1, AAC-LD or better	
		Support 20kHz or better bandwidth with clear audio and stereo sound.	
		Automatic Gain Control and Automatic Noise Suppression	
		Keyboard noise reduction and instant adaptation echo cancellation	
5	Video and Audio Inputs	1 x HDMI/HDCI input for connecting main HD camera	
		1 x HDMI/DVI & 1 VGA input for connecting PC/Laptop to share HD content	
		1 x Microphone Input or more(Support for minimum 3 mics)	
		1 x 3.5mm stereo line-in	
6	Video and Audio Outputs	2 x HDMI output for connecting main monitor & second monitor.	
		1 x 3.5 mm stereo line-out	
7	Other Interfaces	1 x 10/100/1000 LAN port	
		2 x USB for software upgrade and connecting external devices	
		1 x RS-232 mini-DIN 8-pin or equivalent	
8	Camera	Support 1080p60fps with 10x optical zoom.	
		Capable of enhancing video conferencing experience with advanced face-recognition technology such that it automatically scans the room and seamlessly commands the main camera to appropriately frame the users during a call without any manual intervention.	
		Support PAN Range of +/-90°, and Tilt of +/-20°	

9	Touch Display	Touch screen of the same brand of the endpoint OEM	
10	Network Features	H.323 and SIP bandwidth up to 6 Mbps	
		IPv4 and IPv6 support from day one	
		Auto Gatekeeper Discovery	
		IP Precedence, QoS	
		H.323 based Packet Lost Recovery	
11	Multisite Feature	Support atleast 6 sites at 1080p from Day one	
12	Security	Media Encryption (H.323, SIP): AES-128, AES-256	
		Authenticated access to admin menus, web interface and telnet API	
		Local account password policy configuration	
13	Other Standards	H224/H.281, H.323 Annex Q, H.225, H.245, H.241, H.239, H.243, H.460	
		Support native integration with on premise Lync server & SFB server.	

Note : Kindly give the **exact** compliance report.