

ANDREW YULE & COMPANY LIMITED
Tea Division
Scope of Work / Technical Specification
Ref.E-Tender No.: AYCL/TEA DIVISION/12/19-20/ET/176
Ref. Tender No.: AYCL/HO/IT/VC/001
Corrigendum

1. **Scope of Work**

Supply, Installation and Commissioning of Point to Point (1+1) Video Conferencing System as per Specifications.

2. **Specification**

Item No. 1

Description: Point to Point (1+1) Full HD Video Conferencing System

Video Standards	---	H.261, H.263, H263+, H.263++, H.264 High Profile, H.264 Baseline Profile.
Video Frame Rate	---	Should support 60 FPS with 1080p resolution from day one.
Video Features	---	Should have ability to send and receive two live simultaneous video sources in a single call, so that the image from the main camera and PC or document camera can be seen simultaneously. Should support H.239 and BFCP protocols with 1080p resolution.
Multi-Point Feature	---	Should have 4-way SIP/H.323 in 1080p / 60fps Multipoint video conference feature enabled from day one.
Video	---	Should support 2 Monitors for Self-View, Remote View and Content all in separate Monitors.
Video Output	---	At least 3 nos. HDMI Output to connect High Definition Display devices such as plasma and projectors for both Video and Content (Dual Monitor Support). Should support 2 Monitors for Self View, Remote View and Content all in separate Monitors.
Video Input	---	At least 2 Video Inputs to connect full HD Cameras, and at least one additional Video Input to connect auxiliary full HD Camera. VGA/DVI/HDMI port to connect PC/Laptop directly to the Video Conferencing System & Display resolutions up to 1080p.
Audio Standards Support	---	Should Support G.711, G.722, G.722.1, 64 kbps MPEG-4 AAC-LD or equivalent standard.
Other Features	---	Noise Reduction, Automatic Gain control, Acoustic Echo Canceller.
Audio Inputs	---	One Table Top Digital (Auto Echo Cancellation) Microphone with a minimum Range of 15 Feet (Surround) should be Connected to The Video Conferencing System. Provision should be available in the VC to connect additional Digital Microphones if Required.
USB Port	---	2 or More USB 3.0 /2.0 Port.

Network Ports and Wi-Fi	---	Connectivity through LAN 10/100/1000 Mbps& Wi-Fi, both on IPV6and IPV6 Protocol.
Bandwidth	---	Should support Bandwidth between 512Kbps and 18 Mbps or above.
Menu Control	---	Password protected System menu.
Encryption of Video call	---	a) ITU-T standards-based Encryption of the video call. b) Call should be encrypted end-to-end on IP. c) Should support Standards-based: SRTP (AES 128 bit), H.235 (AES 128 bit).
Camera	---	3 XOptical Zoom PTZ Camera with 1920 x 1080i, 1920 x 1080p 60 frames per second, Pan Range: +/-100 Degree, Tilt Range: +/-20 Degree.
Operating Voltage	---	110V AC . 240V AC; 50 Hz.
Warranty	---	3 (Three) Year s Onsite Warranty.
Connectivity with Other VC	---	This VC System should be linked /work perfectly with Cisco / Polycom / Panasonic / Sony VC Systems at other end without installing any additional Hardware/Software.

Item No. 2

Description:Full HD LED TV / LED Display Panel Specification

Full HD LED TV/LED Panel	---	<ul style="list-style-type: none"> • Screen Size (Diagonal):LED 49 Inch or Above. • Aspect Ratio: 16:09. • Number of Pixels (H x V): 1,920 x 1,080 Pixels or Better. • Brightness: 350 Nits or Better. • Viewing Angle: 178 Degree / 178 Degree. • Connect Share, Display Mirroring, DLNA, MHL, Smart View, Wi-Fi Direct. • Supporting Formats: 3GP, ASF, AVI, FLV, MKV, MOV, MP4, PS, TS, VOB.
Inputs :	---	HDMI, USB HID, VGA.
Component	---	Y, PB/CB, PR/CR X 1 or Better.
Digital Audio	---	SPDIF x 1 or Better.
Speaker	---	20 W Dolby or Better.

Item No. 3

Description:External HD Video & Audio Recorder.

Recording System	---	Recording System with minimum 500 GB SDD, Audio Video Recording Storage (2000 hour or more).
Recording Methods	---	Multiple methods of Recording directly from Video endpoint, MCU/Bridge or from admin User Interface.

Status Indicators	---	Support to Provide users indicators of Status (Recording, Pause etc.).
Recording Session	---	Should support 4 concurrent video conferencing recording sessions with full video, audio and content. Upgradable to support up to 8 concurrent video conferencing recording session without change in main hardware.
Recording Solutions	---	Recording solution should be appliance based and not software based solution.
Input / Output Ports	---	HDMI / USB / VGA.
High Definition	---	High Definition . 1080p/720P Live Stream.

Item No. 4

Description

Steel Trolley

--- The VC System with HD LED TV/LED Display Panel should be Mounted/Installed on a Height/Width Adjustable and Wheel Mounted Easy Movable Trolley.

3. **Requirement :**
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|---------------------|---------------------|
| Karballa Tea Estate | - One complete unit |
| Khowang Tea Estate | - One complete unit |

4. **Location of Site**

Karballa Tea Estate, P.O. Banarhat, Dist. Jalpaiguri, Pin . 735 202, West Bengal
Khowang Tea Estate, P.O. Khowang, Dist. Dibrugarh, Pin - 785 675, Assam