ଓଡ଼ିଶା ବିଦ୍ୟୁତ୍ ଶକ୍ତି ସଞ୍ଚାରଣ ନିଗମ ଲିଃ.
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CORRIGENDUM NOTICE NO- II

e-Tender Notice No.: TW-IT/OT/08/522/2018-19

for

"Implementation of Video Conferencing System at OERC, Energy Department (Odisha Secretariat), CESU, NESCO Utility, WESCO Utility, SOUTHCO Utility& Office of the E.I.C (07 locations)"

The following clauses are revised and are detailed below:

1. **The Tender Submission Date & Time is revised as follows:**

#	Description	Submission Date & Time	Revised Submission Date & Time
1	Last date of sale of bidding document	03/04/2019 (11:00Hrs)	08/04/2019 (11:00Hrs)
2	Last date and time for Receipt of bids	03/04/2019 (13:30Hrs)	08/04/2019 (13:30Hrs)
3	Time and date of opening of Techno-commercial bids	04/04/2019 (11:30Hrs)	09/04/2019 (11:30Hrs)

2. **SECTION-I.4.III (Project Timelines) is revised as follows:**

#	Scope of Work	Time Schedule
1	Acknowledgment of Work Order	Within 07 days from the date of issue of Work Order.
2	a. Inspection of Equipment, b. Supply of Video Conferencing System at all the 07 designated locations as per the Scope of works and Technical Specification	Within 70 days from the date of acknowledgment of Work Order
3	a. Installation, commissioning of Video Conferencing System at all the 07 designated locations b. Trail Run & System Acceptance at each location c. UAT Sign-off	Within 70 days from the date of acknowledgment of Work Order
4	Warranty Period	5 years from the date of UAT sign-off

3. **SECTION-V : Revised Technical Requirements & Specification:**

Technical requirements of major equipment of Video Conferencing System:

a. This specification covers Supply, Installation and Commissioning of Full HD Video Conferencing (VC) System at 07 designated locations which may be connected on intranet or internet.

b. All components of the VC system like Codec, Camera and Microphone should be from the same OEM. The Recorder is required to be provided along with the VC System and it may be from the same OEM or from different OEM.

c. The Video Conferencing System provided at each location should be able to establish VC for minimum 08 (eight) parties including the host along with simultaneous recording at the all end points (near and all far end locations), with continuous presence of all parties. Each location may be having its own intranet connectivity or internet connectivity. It is the responsibility of the System Integrator to configure the VC System in such a way that each location out of these 07 locations can establish bi-directional communicate to any location in any network (intranet and internet) through public/private IP.

d. There should be protection against network interruptions in point-to-point and multi-point calls with automatic down speeding and Packet loss recovery technology.

e. It should have dual monitor support to simultaneously display full screen video and presentations.

f. Cameras should be Full HD 1920x1080p with 12x optical zoom and Auto Focus as per specifications given in the table below.

g. It should have built-in capability for Video, Voice and sharing of MS-Office applications like MS-Word, MS-PowerPoint presentations, MS-Excel etc. with desktop / laptop computer integration during video calls simultaneously. This will ensure easy collaboration of data during audio and video conference.

h. Elaborated specifications is detailed in the below table:

A.	Technical Specification for Video Conferencing Equipment (Codec, Camera & Recorder)	
#	Parameter	Specifications
1.	Package	1. Full HD 1080p camera, Codec, Microphone Array, cables, remote control, Recorder (In-built/External) 2. If any additional audio/video equipment or license is required for full system integration then it shall be borne by the bidder. 3. The Codec should be Full HD and rack mountable
2.	Video Standards and Resolutions	It should support the following standards and resolution: 1. It should support H.323, SIP standards for communications. 2. It should support H.263, H.264 AVC/ SVC/ H.264 High Profile/ H.264 VBR/H.264 CBR, H.264, H.239 3. It should support 1080p @ 60 fps
3.	Content Standards and Resolutions	1. It should support content sharing using standard based H.239 2. It should transmit both people and content both simultaneously to the far end location at 1080p 60fps 3. It should also support audio from PC used for content sharing.
4.	Audio Standards and Features	1. It should support G.711, G.729/ GIPS/ MPEG4/ AAC, G.722,G.722.1 or better 2. It should support 20 kHz or better bandwidth with crystal clear audio and stereo sound. 3. Automatic Gain Control and Automatic Noise Suppression 4. Noise reduction and instant adaptation echo cancellation
5.	Video and Audio Inputs	1. 1 x HD input for connecting HD camera 2. 1 x HD input for connecting a secondary HD camera (for future requirement) 3. 1 x HDMI input for connecting PC/Laptop to share HD content 4. 2 x Microphone Input 5. Min. 1 USB 3.0 or 2.0
6.	Video and Audio Outputs	1. 2 x HDMI output 2. 1 x HD output for connecting additional monitor or recorder. The

		recorder should be supplied along with the package. It should have provision to record encrypted calls. However, additional USB based recording provision may be there and it should support AES encryption.
7.	Other Interfaces	1. 2 Nos. RJ-45 Integrated Gigabit(10/100/1000) Network Connection 2. Minimum 1 x USB 2.0 or USB 3.0
8.	Camera	1. Full HD 1080p PTZ Camera 2. It should support 1080p at 60fps 3. It should support minimum 12x Optical Zoom or higher 4. It should support PAN Range of +/-90° (min.) 5. It should support Tilt Range of +/-20° (min.) 6. It should support Horizontal Field of View of at least 65°
9.	Network Features	1. H.323 and SIP bandwidth up to 6 Mbps 2. IPv4 and IPv6 compliant 3. H.323 based Packet Lost Recovery 4. Auto Gatekeeper Discovery 5. IP Precedence, QoS
10.	Security	1. Media Encryption (H.323, SIP): AES-128/ AES-256 2. The system should also support local recording of an encrypted call 3. System Management by web interface, SNMP 4. Authenticated access to admin menus, web interface and telnet API 5. Local account password policy configuration
11.	Other Standards	H224/H.281, H.323 Annex Q, H.225, H.245, H.241, H.239, H.243, H.460
12.	Recording and Storage	The system should support recording and storage feature. The recorder can be in-built or external and should be included in the package.
13.	Multisite Feature	It should support at least 8 sites (07 remote + 01 host) at HD resolution with simultaneous recording
14.	Microphones	Microphone array should be supplied
B.	**Technical Specification for 55" Full Hi-Definition LED Display with HDMI & other cables, mounting brackets and other necessary accessories:**	
1.	Screen Size	55" LED Display Full HDTV, Flat Type, 16x7 operation
2.	Industrial Grade	Yes
3.	Resolution	1920x1080
4.	Brightness	Minimum 350nits
5.	Aspect Ratio	16:9
6.	Video Format	AVI, MP4, WMV & other standard formats.
7.	Audio Format	MP3, WMA ,AC3, MPEG
8.	Picture File Format	JPEG, JPG,JPE
9.	Connectivity	DVI/VGA,HDMI,USB, RGB in, RS232C, AV in, Audio out(3.5mm)
10.	Sound	Built-in Speaker (min. 2 Nos.)
11.	Image Flip	Vertical/Horizontal
12.	Panel	IPS/SVA Display
13.	Viewing Angle	178x178
14.	Power Consumption	60W approx.
15.	Stand-by Power Consumption	0.5W approx.
16.	Operating Temperature	0-40 degree C
17.	Standard Remote Controller	Yes
18.	Power Cable	Yes

19.	Other Accessories	Wall Mount kit, Table Stand kit, HDMI Cable, Quick Setup Guide, warranty card, power cord and Other accessories
20.	Wide Color Enhancer	Yes
21.	RoHS Compliant	Yes
22.	Environment	Energy Star Compliant
C.	**Technical Specification for Fabricated Box with other necessary accessories:**	
1.	Basic Features	The Codec & all the VC Accessories should be accommodated in the Fabricated Box.
		The accessories for mounting the Camera should be provided.
		For terminating all cables, the fabricated box should have suitable terminating block or connections with proper locking arrangement.
		All the cables shall be clamped with suitable clamp to avoid the damage. The cable inlet points at fabricated box should be water proof and rodent proof by providing necessary sealing, etc.
		The Fabricated Box should have a mounting facility for mounting the Codec. It should have toughened glass door with necessary locking facilities.

Sr. General Manager (IT)
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