



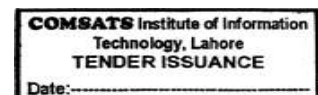
TERMS AND CONDITIONS

[All pages (BoQs & Terms & Conditions) are mandatory to be signed / stamped, failing which the bid may be rejected.]

1. *Any addition, deletion or modification of any clause of the procurement terms & conditions/ BoQs of CIIT by any vendor will not be acceptable and may lead to rejection of the bid.*
2. *Only registered Suppliers, who are on Active Taxpayers List (ATL) of FBR, are eligible to participate in tender.*
3. The contract will be executed and handed over in satisfactory conditions up to the entire satisfaction of COMSATS Institute of Information Technology, Lahore Campus.
4. Documents along with Pay Order / Demand Draft amounting to **Rs. 500/-** as a tender documents fee (Non-Refundable) shall be submitted in favor of COMSATS Institute of Information Technology, Lahore to the address given below. No bid will be accepted without tender documents' fee.
5. Part / Advance payments is not allowed.
6. **The exact completion/delivery time from the date of the purchase / work order will be 07 days. The handing over / completion time for this contract is of critical importance.**
7. **The Services / arrangements related to Rental Basis Items must be completed before to start of event with the consultation of IT Team of CIIT-Lahore.**
8. Your bid proposal should be inclusive of freight and all other taxes delivered at COMSATS Institute of Information Technology, Lahore Campus's premises.
9. After opening of bids, COMSATS Institute of Information Technology, Lahore Campus will examine the bids for completeness as per tender document.
10. Purchase order (s) will be awarded to the lowest or technically recommended bidder (s) on the basis of item wise / subtotal wise / grand total wise according to the nature of BoQs.
11. The bid should be submitted in a sealed envelope up to **February 23, 2017** on or before **1400hrs** and will be opened on the same date **at 1430hrs** in the presence of available bidders.
12. COMSATS Institute of Information Technology, Lahore Campus, will follow the PPRA rule of **single stage two envelope procedure;**
 - i. The bid shall comprise a single package containing **two separate envelopes**. Each envelope shall contain separately the **financial proposal** and the **technical proposal;**
 - ii. The envelopes shall be marked as **“FINANCIAL PROPOSAL”** and **“TECHNICAL PROPOSAL”** in bold and legible letters to avoid confusion;
 - iii. Initially, only the envelope marked **“TECHNICAL PROPOSAL”** shall be opened;

- iv. The envelope marked as **“FINANCIAL PROPOSAL”** shall be retained in the custody of the procuring agency without being opened;
 - v. The procuring agency shall evaluate the technical proposal in a manner prescribed in advance, without reference to the price and reject any proposal which does not conform to the specified requirements;
 - vi. During the technical evaluation no **amendments** in the technical proposal shall be permitted;
 - vii. The financial proposals of bids shall be opened publicly at a time, date and venue announced and communicated to the bidders in advance;
 - viii. After the evaluation and approval of the technical proposal the procuring agency, shall at a time within the bid validity period, publicly open the financial proposals of the technically accepted bids only. The financial proposal of bids found technically nonresponsive shall be returned un-opened to the respective bidders;
 - ix. and
 - x. The bid found to be the lowest evaluated bid shall be accepted.
13. Bidders cannot challenge the finding of the evaluation or ask for reason of disqualification.
14. The envelope should be marked as under;
- Secretary, Purchase Committee**
COMSATS Institute of Information Technology, Lahore Campus
 Defence Road, Off Raiwind Road, Lahore.
 Tel: 042-111-001-007, Ext: 875
15. The envelope shall also bear the word **“CONFIDENTIAL”** and following identification quotation of **“IT Support Items for PCBF-2017”**.
16. The bid form (BoQs) must be duly filled in, stamped and signed by the authorized representative of the bidder.
- 17. If the vendor fails to deliver the goods / services to CIIT-Lahore in time then the penalty will be charged as under:-**
- a. 1% per day of the invoice price for 5 working days.
 - b. 2% per day of the invoice price for further 5 working days.
 - c. If the vendor fails to deliver the goods / services during the extended period then the purchase / work order may be cancelled, earnest money and payment may be forfeited.
18. If the delivered goods / services are not according to the required quality standards / specifications, the same shall be liable to be rejected after inspection. The vendor would be required to supply as per requirements mentioned in our BoQs, otherwise the purchase / work order will be cancelled after due date with confiscation of earnest money.
19. Deduction of Income Tax and any other tax will be deducted at source according to Government prevailing rules.
20. Payment will be made on submission of Invoice in the name of “COMSATS Institute of Information Technology, Lahore Campus” with a copy of delivery challan (s) after the complete order has been supplied,

Signature & Stamp of Bidder

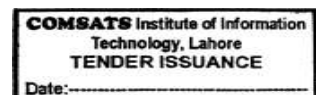


inspected and accepted which includes delivery / installation, and COMSATS acceptance / inspection thereof.

- 21. All prices should be quoted on F.O.R (Pak Rupees).
- 22. All prices should be valid for at least **60 days**. Withdrawal or any modification of the original offer within the validity period shall entitle CIIT to forfeit the earnest money in favor of the CIIT and / or put a ban on such vendor participation in CIIT tenders / works.
- 23. It is the sole responsibility of the agent / supplier / manufacturer to comply with the applicable laws, be national or international.
- 24. In case of any dispute, decision of the Director, CIIT will be final and binding upon the parties.
- 25. The CIIT reserves the right to modify the quantities of goods / services at any time before the award of purchase / work order.
- 26. **05% of the total value of the Sr. # 2 for Two years, Sr. # 5 for one year and Sr. # 4, 13, 15, 16 for three years will be retained as security by COMSATS Institute of Information Technology, Lahore Campus, and will be released after warranty periods (mentioned in BoQs), which will be counted from the date of delivery / completion of work / supply.**
- 27. **The bidder is required to furnish in form of Bank deposit / CDR / Pay order equivalent to 2% of the total Bid price as Earnest Money crossed in favor of "COMSATS Institute of Information Technology, Lahore Campus". Any bid not accompanied by Earnest Money shall be rejected without any right of appeal.**
- 28. COMSATS Institute of Information Technology, Lahore Campus reserves the rights to accept or reject the bid if;
 - i. Received without earnest money
 - ii. Received later than the date and time fixed for tender submission
 - iii. The tender is unsigned/ unstamped
 - iv. The offer is ambiguous
 - v. The offer is conditional
 - vi. Offer is made by the unauthorized agent/ supplier of the original equipment manufacturer.
 - vii. The offer is from a firm, which is black listed by any Govt. Office.
 - viii. The offer is received by telephone/telex/fax/telegram.
 - ix. Any unsigned / ambiguous erasing, cutting / overwriting etc. is made.
- 29. The bidder should furnish a certificate as worded below in token of acceptance of all the terms and conditions of the tender otherwise the tender will not be considered under any circumstances.
- 30. The undersigned affirm that the terms and conditions as contained in this document have been read and accepted and that in the event of selection of my/our rate the agreement in the prescribed form will be entered into:

- **Company / Vendor Name:**.....
- **Postal Address:**.....
- **Tel. / Mobile:**.....**Email:**.....
- **NTN# :**.....**GST#:**.....

Signature & Stamp of Bidder



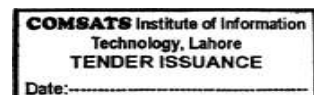
- **Signature:**
- Please also attach the Certificate supporting being Active Taxpayer as per requirement of FBR.

Technical Portion (Please mention the quoted model/ brand in technical portion with no mention of price otherwise the bid will be rejected)

BoQs of IT Support Items for PCBF-2017, CIIT-Lahore

Sr .#	No change in the BoQs (Specs & Qty.) of CIIT, as detailed below, is allowed. Any additional information may be mentioned in the blank columns (i.e. model / brand or Price). Any modification in CIIT's BoQ may lead to rejection of bid (fully or partially).	Quantity		Quoted Model Brand with meeting the all specifications
		Items Name with Specifications		
1	Toner/ Cartridges HP/ Asta/ MMC or Equivalent <u>11A</u>	01	Nos.	
	Toner/ Cartridges HP/ Asta/ MMC or Equivalent <u>16A</u>	01	Nos.	
2	<u>Color Printer</u> Epson L360 with High Yield Ink Bottles or Equivalent Print Speed: Black Print 33ppm, Black & Color 15ppm, Photo Draft 27 sec per Photo, Default Photo 69 Sec per Photo. Print Method: Inkjet 180 nozzles black & 59 nozzles per color (Cyan, Magenta & Yellow). Print Direction: Bi and Uni directional. Print Resolution: 5760*1440 dpi (Variable sized droplet Technology). Ink Droplet: Min 3pl Scanner Type: Flatbed color image scanner Sensor Type: CIS Optical Resolution: 600*1200 dpi. Scan Speed: Monochrome 300 dpi in 11 sec and Color 300 dpi in 33 sec. Scanner Bit Depth: Color 48bit input-24bit output, Grayscale 16bit input-8bit output, Black & white 16bit input-1bit output. Connectivity: USB Port 2.0 Warranty: 2 Years on website warranty.	01	Nos.	
3	<u>Cable Roll</u> Cat-6 Original AMP / 3M/ Bay net or equivalent 23 Gauges	02	Roll	
4	<u>Access Points</u> RUCKUS Zone Flex R310 or Equivalent Technology: Wireless Broad Compatibility: a/b/g/n/ac Wireless Bands: 2.4 & 5 GHz Simultaneously Transmission and Receive Power: 23 dBm for 2.4 GHz, 24 dBm for 5 GHz Data throughput: 300 Mbps (2.4GHz) and 867 Mbps (5GHz) Channelization Support: 20 MHz, 40 MHz and 80 MHz Beam Flex Technology: Beam Flex and Transmit beam forming capable. Gain up to 4dB., Antennas: Adaptive Antenna that provides up to 128 unique antennas with 64 Patterns Per Band. Port: One 10/100/1000 Mbps Ethernet port Bssid: up to 8 per radio (16 per AP) Spatial Stream: Two Stream MIMO 2x2:2 POE: Power over Ethernet supported (802.3af) & passive POE Mounting Kit: Ruckus Mounting or Equivalent Compatibility: work in standalone mode and controller based environment (Controller1 Ruckus Smart Zone 100) POE: RUCKUS POE 902-0162-EU00 or Equivalent Warranty: 3 Year onsite warranty	02	Nos.	
5	<u>Scanner</u> HP Scanjet 200 or equivalent Scanner Type: Flatbed.	01	Nos.	

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	<p>Scan Resolution: Up to 2400 dpi. Color Bit Depth: 48bit. Levels of Gray Scale: 256. Duty Cycle Per Day: 26, 000. Scan Speed: 21 sec to one color photo scan, 30 sec to one MS word image, 37 sec to email image and 37 sec to PDF image scan. Scan Size: 216*297mm (2GB win, 1GB for MAC & 1GB for Linux). Connectivity: 1 High Speed USB 2.0. Operating Temperature: 10 to 35 C. Operating Humidity: 15 to 80%RH non Condensing. Warranty: One-year standard warranty on Website.</p>			
6	<p>4G Device Zong 4G Cloud Device or equivalent with 2-month billing of 40 GB data bucket / month</p>	03	Nos.	
7	<p>RJ45 Connector Original Cat 6 AMP / 3M/ Bay net or equivalent (100 Pieces Box)</p>	01	Box	
8	<p>SMD Screen P4 (10'x20'), On rental basis for 5 days SMD Screen P4(Size:10x'20') Indoor HD & Super Thin LED Display/screen required for five day (8th – 12th March 2017) Specifications 1.P4 HD Indoor slim LED Display/screen. 2. Size required 10 X 20 ft. 3. Die cast aluminum cabinet indoor led display 4. High refresh rate, high grey level led display, High definition 5. No scan line, video no shaking. 6. With all services including wooden staging minimum 3ft height. 7. The vendor must be connect the both SMD's as one unit and also integrate with our Broadcasting system. 8.Vendor must provide SMD input "SDI,VGA,HDMI". Installation of Sound\Speakers & Video Cable: Vendor must install sound and Video Cables form EXPO IT Broadcasting room to main display SMD as per required. Also provide two speakers heavy duty sound. Technical Support: Vendor must provide technical support during the whole event from 8:00am to 6pm. -Vendor also provide backup of all accessories.</p>	05	Days	
9	<p>LED Screen 55" on rental basis for 4 days with floor stand</p>	04	days	
10	<p>Professional Camera on rental basis for 4 days Professional Camera Rent with cameraman, SDI live HD output to control room. Total 3 Cameras required: (One (01) Camera for one day and two (2) cameras for Four (4) Days)</p>	04	Days	
11	<p>Battery Battery (for Sony HandycamHDR-XR160) 25Wh-26.5Wh (NP-FV100)</p>	02	Nos.	
12	<p>Cabling and Connectors</p>	-	-	-
	<p>Coaxial Cable RJ-6 1000ft Roll (Imported Quality)</p>	02	Nos.	
	<p>Audio/ video RC Splitter (Imported Quality)</p>	05	Nos.	
	<p>DJ Jack (Imported Quality)</p>	05	Nos.	
	<p>RC audio/video Cable (Imported Quality) 1 meter</p>	10	Nos.	
	<p>Auxiliary Cable (with male/female stereo cable) (Imported Quality) stereo male-female 1 meter</p>	05	Nos.	
	<p>RG6 cable jointer</p>	10	Nos.	

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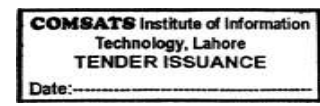
	RG6 connector	20	Nos.	
	BNC to AV Connector Adapter Set (Include Female to Female, Male to male and male to female for both)	03	Nos.	
	Sony 10 Pin D Connector LANC Camcorder COMPONENT VIDEO Cable RGB	03	Nos.	
	AV Cable for Sony Handy cam, Mini DV & DVD Camcorders	03	Nos.	
13	<p><u>PCI Capture card with 8 SDI inputs and outputs</u> Black Magic Deck Link Quad 2 or equivalent Connections SDI Video Input :8 x bidirectional 12-bit SD/HD independently configurable as either Input or Output SDI Audio Input: 16 channels embedded in SD and HD SDI Audio Output: 16 channels embedded in SD and HD Sync Input: Black burst in SD 720p50, 720p59.94, 1080i50 and 1080i59.94 formats or Tri-Sync in any HD format. Computer Interface: PCI Express 8 lane, compatible with 8 and 16 lane PCIe slots. SDI Video Output: 8 x bidirectional 12-bit SD/HD independently configurable as either Output or Input Supported Codecs AVC-Intra, AVCHD, Canon XF MPEG2, Digital SLR, DV-NTSC, DV-PAL, DVCPRO50, DVCPROHD, DPX, HDV, HEVC, XDCAM EX, XDCAM HD, XDCAM HD422, Apple ProRes 4444, Apple ProRes 422 (HQ), Apple ProRes 422, Apple ProRes (LT), Apple ProRes 422 Proxy, Uncompressed 8-bit 4:2:2, Uncompressed 10-bit 4:2:2, Uncompressed 10-bit 4:4:4 Software DaVinci Resolve, Media Express, Disk Speed Test, LiveKey, Blackmagic Desktop Video Utility and Blackmagic driver on Mac OS X and Windows. Blackmagic Desktop Video Utility and Blackmagic driver on Linux. Internal Software Upgrade: Firmware built into software driver. Loaded at system start or via updater software. Physical Installation:PCI Express 8 lane, compatible with 8 and 16 lane PCI Express slots Software Applications DaVinci Resolve, Fusion, Final Cut Pro X, Premiere Pro CC, Avid Media Composer, After Effects CC, Avid Pro Tools, Steinberg Cubase, Steinberg Nuendo, Photoshop CC, Nuke, Steinberg Nuendo, Avid Symphony, Avid News Cutter, Tools On Air just:in&live:cut&just:play&just:live, SoftronOnTheAir, MovieRecorder and OnTheAir CG, Flash Media Live Encoder, Flash Media Encoder, Wirecast, Livestream Procaster, Resolume Avenue 4, Sony Vegas Pro, Corel VideoStudio Pro X4, CyberLink Power Director, MAGIX Video Pro X4, Vidblaster Pro & Studio & Broadcast, Uniplay, PlayboxAirBox, CasparCG, Magisoft CG, Xsplit Broadcaster, Imagine Communications Velocity &InfoCaster. Audio & Video Standards SD Format Support: 525i29.97 NTSC, 625i25 PAL HD Format Support: 720p50, 720p59.94, 720p60, 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60, 1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF29.97, 1080PsF30, 1080i50, 1080i59.94, 1080i60 SDI Compliance: SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE 425M A/B SDI Metadata Support: VITC read for 3:2 pulldown removal. VANC capture and playback using up to 3 lines of video in file. HD RP188 and closed captioning. Audio Sampling: Television standard sample rate of 48 kHz and 24 bit. Video Sampling:4:2:2, 4:4:4 Color Precision: 8, 10-bit YUV 4:2:2 and 8, 10, 12-bit RGB 4:4:4 Color Space: REC 601, REC 709 Processing: Color space Conversion: Hardware based real time HD Down Conversion: Built in, high quality software down converter on playback and capture. Down converted SD selectable between letterbox, anamorphic 16:9 and center cut 4:3 styles. HD Up Conversion: Built in, high quality software up conversion from SD to 720HD or 1080HD on capture. Selectable between 4:3 pillarbox, 14:9 zoom and 16:9 zoom.</p>	01	Nos.	

	<p>Cross Conversion: Built-in, high quality hardware cross conversion from 720HD to 1080HD on playback.</p> <p>Real Time Effects: Final Cut Pro X internal effects. Premiere Pro CC Mercury Playback Engine effects. Avid Media Composer internal effects.</p> <p>Operating Systems: Mac OS X 10.10 Yosemite, Mac OS X 10.11 El Capitan or later, Windows 7, 8.1 and 10, all 64-bit., Linux</p> <p>Warranty:3 Year onsite Warranty& support</p>			
14	<p>Imported SDI to Mini SDI cables Imported SDI to Mini SDI Cables for Deck Link Quad 2 Min. 1m</p>	12	Nos.	
15	<p>Micro Converter for HDMI to SDI powered from USB Micro Converter HDMI to SDI or equivalent Connections SDI Video Output: Automatically matches the SD, HD or 3G-SDI HDMI video input HDMI: HDMI Type A in Multi Rate Support: Auto detection of SD or HD Updates, Configurations and Power: Micro USB Relocking: Yes Standards SDI Format Support :525i29.97 NTSC, 625i25 PAL HD Format Support: 720p50, 720p59.94, 720p60, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60, 1080i50, 1080i59.94, 1080i60, SDI Compliance: SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE 425M SDI Video Rates: SDI video connections are switchable between standard definition and high definition, and user selectable level A and B via setup utility. SDI Color Precision: 4:2:2 SDI Color Space: YUV SDI Auto Switching: Automatically detects SD, HD and 3G-SDI HDMI Format Support: 525i29.97 NTSC, 625i25 PAL, 720p50, 720p59.94, 720p60, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60, 1080i50, 1080i59.94, 1080i60 HDMI Color Precision: 4:2:2 HDMI Color Space: YUV Software Software Control: Mac OS X™ and Windows™ software upgrade via micro USB Internal Software Upgrade: Via micro USB Operating Systems:Mac OS X 10.10 Yosemite, Mac OS X 10.11 El Capitan or later, Windows 8.1 or Windows 10. Settings Control:Via software utility Power Requirements: Power Supply: +5V universal power supply included with international socket adapters for all countries. Power Consumption: 1.60 Watts Operational Voltage Range :4.4V to 5.25V DC Included: Micro Converter HDMI to SDI, +5V universal power supply with international socket adapters Warranty:3 Year onsite Warranty.</p>	2	Nos.	
16	<p>Mini 4k Recorder Card Deck Link Mini Recorder 4K or equivalent Connections SDI Video Input :1 x 10-bit SD/HD/Ultra HD switchable SDI Audio Input: 16 channels embedded in SD, HD, Ultra HD. HDMI Video Input: 1 x HDMI 2.0a connector. HDMI Audio Input: 8 Channels embedded in SD, HD, Ultra HD. Computer Interface: Gen 2 PCIe Express 4 lane, compatible with 4, 8 and 16 lane PCIe slots. Supported Codecs AVC-Intra, AVCHD, Canon XF MPEG2, Digital SLR, DV-NTSC, DV-PAL, DVCPRO50, DVCPROHD, DPX, HDV, XDCAM EX, XDCAM HD, XDCAM HD422, Apple ProRes 4444, Apple ProRes 422 HQ, Apple ProRes 422, Apple ProRes LT, Apple ProRes 422 Proxy, Uncompressed 8-bit 4:2:2, Uncompressed 10-bit 4:2:2. Software Software Included: Media Express, Disk Speed Test, LiveKey, Blackmagic System</p>	1	Nos.	

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	<p>Preferences and Blackmagic driver on Mac OS X and Windows. Internal Software Upgrade: Firmware built into software driver. Loaded at system start or via updater software. Physical Installation: PCI Express 4 lane, compatible with 4, 8 and 16 lane PCI Express slots on Mac OS X, Windows and Linux. Software Applications DaVinci Resolve, Fusion, Premiere Pro CC, Avid Media Composer, After Effects CC, Avid Pro Tools, Steinberg Cubase, Steinberg Nuendo, Photoshop CC, Media Express, Nuke, Avid Symphony, Avid News Cutter, Tools On Air just:in&live:cut&just:play&just:live, SoftronOnTheAir, MovieRecorder and OnTheAir CG, Flash Media Live Encoder, Wirecast, Livestream Procaster, Resolume Avenue 4, Sony Vegas Pro, Corel VideoStudio Pro X4, CyberLink Power Director, MAGIX Video Pro X4, Vidblaster Pro & Studio & Broadcast, Uniplay, PlayboxAirBox, CasparCG, Magicsoft CG, Xsplit Broadcaster, Imagine Communications Velocity &InfoCaster. Video Standards SD Format Support: 525i59.94 NTSC, 625i50 PAL HD Format Support: 720p50, 720p59.94, 720p60 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60, 1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30 1080i50, 1080i59.94, 1080i60 Ultra HD Format Support:2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30 4K DCI Format Support: 4K DCI 23.98p, 4K DCI 24p, 4K DCI 25p SDI Compliance: SMPTE 259M and 292M. SDI Metadata Support: VITC read for 3:2 pulldown removal. VANC capture using up to 3 lines of video in file. HD RP188 and closed captioning. Audio Sampling: Television standard sample rate of 48 kHz and 24 bit. Video Sampling: 4:2:2 Color Precision: 10-bit Color Space: REC 601, REC 709, REC 2020 HDMI Configuration: HDMI automatically configures to connected display. HDMI Resolution: Pixel for pixel HD resolution input to connected device. HDMI Color Precision: 10-bit Multiple Rate support: SDI and HDMI are switchable between standard definition and high definition. Copy Protection: HDMI input is unable to capture from copy protected HDMI sources. Always confirm copyright ownership before capture or distribution of content. Processing Color space Conversion: Hardware based real time. HD Up Conversion: Software based up conversion during video capture. Operating Systems: Mac OS X 10.10 Yosemite, Mac OS X 10.11 El Capitan or later. Windows 7, 8.1 and 10, all 64-bit. Linux Box Included: Deck Link Mini Recorder 4K, Low profile slot bracket, SD card with software and manual Warranty: 3 Year onsite Warranty.</p>			
17	<p>Connectors + Cables + Misc.</p> <p>SDI Female Connectors (Imported)</p> <p>SDI male Connectors (Imported)</p> <p>SDI Jointers (Imported)</p> <p>SDI Cables 1 Meter (Imported)</p> <p>Mini SDI Female Connectors (Imported)</p> <p>Mini SDI male Connectors (Imported)</p> <p>HDMI Jointer (Imported)</p>	-	-	-
		20	Nos.	
		20	Nos.	
		10	Nos.	
		20	Nos.	
		20	Nos.	
		20	Nos.	
		10	Nos.	

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	HDMI to Mini HDMI convertor (Imported)	05	Nos.	
	Mini HDMI to HDMI convertor	05	Nos.	
	USB OTG cables(2 B type to A type & 2 C-Type to A type)	04	Nos.	
	SDI Male to female jointer / convertor	10	Nos.	
	Imported Compression Connector Coax Adjustable Tool Crimper F BNC RCA RG58 RG59 RG6 Kit	01	Nos.	
	USB HUB with three (1 in, 3 out)	03	Nos.	
	Adjustable cable stripping tool	02	Nos.	
18	<u>20000mAh Battery bank with USB cables type B & C for Micro convertor</u> Samsung or equivalent 20000mAh External Battery bank with USB cable	02	Nos.	
19	<u>Microphone for DSLR</u> Microphone for DSLR with 2 meter XLR Female to 1/8" TRS Male Connection Cable	01	Nos.	
20	<u>tripod for mobile + DSLR</u> tripod for mobile + DSLR	01	Nos.	

Financial Portion (Price and Brand/Model to be mention only in Financial Proposal in a separate sealed envelope)

BoQs of IT Support Items for PCBF-2017, CIIT-Lahore

No change in the BoQs (Specs & Qty.) of CIIT, as detailed below, is allowed. Any additional information may be mentioned in the blank columns (i.e. model / brand or Price). Any modification in CIIT's BoQ may lead to rejection of bid (fully or partially).				Rates to be quoted inclusive of all (applicable) taxes		
Sr. #	Items Name with Specifications	Quantity		Quoted Model / Brand	Unit Price (Rs.)	Total Amount (Rs.)
1	Toner/ Cartridges HP/ Asta/ MMC or Equivalent, <u>11A</u>	01	Nos.			
	Toner/ Cartridges HP/ Asta/ MMC or Equivalent, <u>16A</u>	01	Nos.			
2	<u>Color Printer</u> Epson L360 with High Yield Ink Bottles or Equivalent Print Speed: Black Print 33ppm, Black & Color 15ppm, Photo Draft 27 sec per Photo, Default Photo 69 Sec per Photo. Print Method: Inkjet 180 nozzles black & 59 nozzles per color (Cyan, Magenta & Yellow). Print Direction: Bi and Uni directional. Print Resolution: 5760*1440 dpi (Variable sized droplet Technology), Ink Droplet: Min 3pl Scanner Type: Flatbed color image scanner Sensor Type: CIS, Optical Resolution: 600*1200 dpi. Scan Speed: Monochrome 300 dpi in 11 sec and Color 300 dpi in 33 sec. Scanner Bit Depth: Color 48bit input-24bit output, Grayscale 16bit input-8bit output, Black & white 16bit input-1bit output. Connectivity: USB Port 2.0 Warranty: 2 Years on website warranty.	01	Nos.			
3	<u>Cable Roll</u> Cat-6 Original AMP / 3M/ Bay net or equivalent 23 Gauges	02	Roll			

Signature & Stamp of Bidder

4	<p><u>Access Points</u> RUCKUS Zone Flex R310 or Equivalent Technology: Wireless Broad Compatibility: a/b/g/n/ac Wireless Bands: 2.4 & 5 GHz Simultaneously Transmission and Receive Power: 23 dBm for 2.4 GHz, 24 dBm for 5 GHz Data throughput: 300 Mbps (2.4GHz) and 867 Mbps (5GHz) Channelization Support: 20 MHz, 40 MHz and 80 MHz Beam Flex Technology: Beam Flex and Transmit beam forming capable. Gain up to 4dB. Antennas: Adaptive Antenna that provides up to 128 unique antennas with 64 Patterns Per Band. Port: One 10/100/1000 Mbps Ethernet port Bssid: up to 8 per radio (16 per AP) Spatial Stream: Two Stream MIMO 2x2:2 POE: Power over Ethernet supported (802.3af) & passive POE Mounting Kit: Ruckus Mounting or Equivalent Compatibility: work in standalone mode and controller based environment (Controller1 Ruckus Smart Zone 100) POE: RUCKUS POE 902-0162-EU00 or Equivalent Warranty: 3 Year onsite warranty</p>	02	Nos.			
5	<p><u>Scanner</u> HP Scanjet 200 or equivalent Scanner Type: Flatbed. Scan Resolution: Up to 2400 dpi. Color Bit Depth: 48bit. Levels of Gray Scale: 256. Duty Cycle Per Day: 26, 000. Scan Speed: 21 sec to one color photo scan, 30 sec to one MS word image, 37 sec to email image and 37 sec to PDF image scan. Scan Size: 216*297mm (2GB win, 1GB for MAC & 1GB for Linux). Connectivity: 1 High Speed USB 2.0. Operating Temperature: 10 to 35 C. Operating Humidity: 15 to 80%RH non Condensing. Warranty: One-year standard warranty on Website.</p>	01	Nos.			
6	<p><u>4G Device</u> Zong 4G Cloud Device or equivalent with 2-month billing of 40 GB data bucket / month</p>	03	Nos.			
7	<p><u>RJ45 Connector</u> Original Cat 6 AMP / 3M/ Bay net or equivalent (100 Pieces Box)</p>	01	Box			
8	<p><u>SMD Screen</u> P4 (10'x20'), On rental basis for 5 days SMD Screen P4(Size:10x'20') Indoor HD & Super Thin LED Display/screen required for five day (8th – 12th March 2017) Specifications 1.P4 HD Indoor slim LED Display/screen. 2. Size required 10 X 20 ft. 3. Die cast aluminum cabinet indoor led display 4. High refresh rate, high grey level led display, High definition 5. No scan line, video no shaking. 6. With all services including wooden staging minimum 3ft height. 7. The vendor must be connect the both SMD's as one unit and also integrate with our Broadcasting system. 8.Vendor must provide SMD input "SDI,VGA,HDMI". Installation of Sound/Speakers & Video Cable: Vendor must install sound and Video Cables form EXPO IT Broadcasting room to main display SMD as per required. Also provide two speakers heavy duty sound. Technical Support: Vendor must provide technical support during the whole event from 8:00am to 6pm. -Vendor also provide backup of all accessories.</p>	05	Days			

9	<u>LED Screen 55"</u> on rental basis for 4 days with floor stand	04	days			
10	<u>Professional Camera on rental basis for 4 days</u> Professional Camera Rent with cameraman, SDI live HD output to control room. Total 3 Cameras required: (One (01) Camera for one day and two (2) cameras for Four (4) Days)	04	Days			
11	<u>Battery</u> Battery (for Sony HandycamHDR-XR160) 25Wh-26.5Wh (NP-FV100)	02	Nos.			
19	<u>Microphone for DSLR</u> Microphone for DSLR with 2 meter XLR Female to 1/8" TRS Male Connection Cable	01	Nos.			
20	<u>tripod for mobile + DSLR</u> tripod for mobile + DSLR	01	Nos.			

Turnkey Items

No change in the BoQs (Specs & Qty.) of CIIT, as detailed below, is allowed. Any additional information may be mentioned in the blank columns (i.e. model / brand or Price). Any modification in CIIT's BoQ may lead to rejection of bid (fully or partially).				Rates to be quoted inclusive of all (applicable) taxes		
Sr. #	Items Name with Specifications	Quantity		Quoted Model / Brand	Unit Price (Rs.)	Total Amount (Rs.)
12	<u>Cabling and Connectors</u>	-	-	-	-	-
	Coaxial Cable RJ-6 1000ft Roll (Imported Quality)	02	Nos.			
	Audio/ video RC Splitter (Imported Quality)	05	Nos.			
	DJ Jack (Imported Quality)	05	Nos.			
	RC audio/video Cable (Imported Quality) 1 meter	10	Nos.			
	Auxiliary Cable (with male/female stereo cable) (Imported Quality) stereo male-female 1 meter	05	Nos.			
	RG6 cable jointer	10	Nos.			
	RG6 connector	20	Nos.			
	BNC to AV Connector Adapter Set (Include Female to Female, Male to male and male to female for both)	03	Nos.			
	Sony 10 Pin D Connector LANC Camcorder COMPONENT VIDEO Cable RGB	03	Nos.			
AV Cable for Sony Handy cam, Mini DV & DVD Camcorders	03	Nos.				
13	<u>PCI Capture card with 8 SDI inputs and outputs</u> Black Magic Deck Link Quad 2 or equivalent Connections SDI Video Input :8 x bidirectional 12-bit SD/HD independently configurable as either Input or Output SDI Audio Input: 16 channels embedded in SD and HD SDI Audio Output: 16 channels embedded in SD and HD Sync Input: Black burst in SD 720p50, 720p59.94, 1080i50 and	01	Nos.			

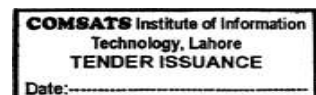
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<p>1080i59.94 formats or Tri-Sync in any HD format.</p> <p>Computer Interface: PCI Express 8 lane, compatible with 8 and 16 lane PCIe slots.</p> <p>SDI Video Output: 8 x bidirectional 12-bit SD/HD independently configurable as either Output or Input</p> <p>Supported Codects AVC-Intra, AVCHD, Canon XF MPEG2, Digital SLR, DV-NTSC, DV-PAL, DVCPRO50, DVCPROHD, DPX, HDV, HEVC, XDCAM EX, XDCAM HD, XDCAM HD422, Apple ProRes 4444, Apple ProRes 422 (HQ), Apple ProRes 422, Apple ProRes (LT), Apple ProRes 422 Proxy, Uncompressed 8-bit 4:2:2, Uncompressed 10-bit 4:2:2, Uncompressed 10-bit 4:4:4</p> <p>Software DaVinci Resolve, Media Express, Disk Speed Test, LiveKey, Blackmagic Desktop Video Utility and Blackmagic driver on Mac OS X and Windows. Blackmagic Desktop Video Utility and Blackmagic driver on Linux.</p> <p>Internal Software Upgrade: Firmware built into software driver. Loaded at system start or via updater software.</p> <p>Physical Installation:PCI Express 8 lane, compatible with 8 and 16 lane PCI Express slots</p> <p>Software Applications DaVinci Resolve, Fusion, Final Cut Pro X, Premiere Pro CC, Avid Media Composer, After Effects CC, Avid Pro Tools, Steinberg Cubase, Steinberg Nuendo, Photoshop CC, Nuke, Steinberg Nuendo, Avid Symphony, Avid News Cutter, Tools On Air just.in&live:cut&just:play&just:live, SoftronOnTheAir, MovieRecorder and OnTheAir CG, Flash Media Live Encoder, Flash Media Encoder, Wirecast, Livestream Procaster, Resolume Avenue 4, Sony Vegas Pro, Corel VideoStudio Pro X4, CyberLink Power Director, MAGIX Video Pro X4, Vidblaster Pro & Studio & Broadcast, Uniplay, PlayboxAirBox, CasparCG, Magicsoft CG, Xsplit Broadcaster, Imagine Communications Velocity &InfoCaster.</p> <p>Audio & Video Standards SD Format Support: 525i29.97 NTSC, 625i25 PAL HD Format Support: 720p50, 720p59.94, 720p60, 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60, 1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF29.97, 1080PsF30, 1080i50, 1080i59.94, 1080i60 SDI Compliance: SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE 425M A/B SDI Metadata Support: VITC read for 3:2 pulldown removal. VANC capture and playback using up to 3 lines of video in file. HD RP188 and closed captioning. Audio Sampling: Television standard sample rate of 48 kHz and 24 bit. Video Sampling:4:2:2, 4:4:4 Color Precision: 8, 10-bit YUV 4:2:2 and 8, 10, 12-bit RGB 4:4:4 Color Space: REC 601, REC 709 Processing: Color space Conversion: Hardware based real time HD Down Conversion: Built in, high quality software down converter on playback and capture. Down converted SD selectable between letterbox, anamorphic 16:9 and center cut 4:3 styles. HD Up Conversion: Built in, high quality software up conversion from SD to 720HD or 1080HD on capture. Selectable between 4:3 pillarbox, 14:9 zoom and 16:9 zoom. Cross Conversion: Built-in, high quality hardware cross conversion from 720HD to 1080HD on playback. Real Time Effects: Final Cut Pro X internal effects. Premiere Pro CC Mercury Playback Engine effects. Avid Media Composer internal effects. Operating Systems: Mac OS X 10.10 Yosemite, Mac OS X 10.11 El Capitan or later, Windows 7, 8.1 and 10, all 64-bit., Linux Warranty:3 Year onsite Warranty& support</p>					
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14	<p>Imported SDI to Mini SDI cables Imported SDI to Mini SDI Cables for Deck Link Quad 2 Min. 1m</p>	12	Nos.			
15	<p>Micro Converter for HDMI to SDI powered from USB Micro Converter HDMI to SDI or equivalent Connections SDI Video Output: Automatically matches the SD, HD or 3G-SDI HDMI video input HDMI: HDMI Type A in Multi Rate Support: Auto detection of SD or HD Updates, Configurations and Power: Micro USB Relocking: Yes Standards SDI Format Support :525i29.97 NTSC, 625i25 PAL HD Format Support: 720p50, 720p59.94, 720p60, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60, 1080i50, 1080i59.94, 1080i60, SDI Compliance: SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE 425M SDI Video Rates: SDI video connections are switchable between standard definition and high definition, and user selectable level A and B via setup utility. SDI Color Precision: 4:2:2 SDI Color Space: YUV SDI Auto Switching: Automatically detects SD, HD and 3G-SDI HDMI Format Support: 525i29.97 NTSC, 625i25 PAL, 720p50, 720p59.94, 720p60, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60, 1080i50, 1080i59.94, 1080i60 HDMI Color Precision: 4:2:2 HDMI Color Space: YUV Software Software Control: Mac OS X™ and Windows™ software upgrade via micro USB Internal Software Upgrade: Via micro USB Operating Systems:Mac OS X 10.10 Yosemite, Mac OS X 10.11 El Capitan or later, Windows 8.1 or Windows 10. Settings Control:Via software utility Power Requirements: Power Supply: +5V universal power supply included with international socket adapters for all countries. Power Consumption: 1.60 Watts Operational Voltage Range :4.4V to 5.25V DC Included: Micro Converter HDMI to SDI, +5V universal power supply with international socket adapters Warranty:3 Year onsite Warranty.</p>	2	Nos.			
16	<p>Mini 4k Recorder Card Deck Link Mini Recorder 4K or equivalent Connections SDI Video Input :1 x 10-bit SD/HD/Ultra HD switchable SDI Audio Input: 16 channels embedded in SD, HD, Ultra HD. HDMI Video Input: 1 x HDMI 2.0a connector. HDMI Audio Input: 8 Channels embedded in SD, HD, Ultra HD. Computer Interface: Gen 2 PCIe Express 4 lane, compatible with 4, 8 and 16 lane PCIe slots. Supported Codecs AVC-Intra, AVCHD, Canon XF MPEG2, Digital SLR, DV-NTSC, DV-PAL, DVCPRO50, DVCPROHD, DPX, HDV, XDCAM EX, XDCAM HD, XDCAM HD422, Apple ProRes 4444, Apple ProRes 422 HQ, Apple ProRes 422, Apple ProRes LT, Apple ProRes 422 Proxy, Uncompressed 8-bit 4:2:2, Uncompressed 10-bit 4:2:2. Software Software Included: Media Express, Disk Speed Test, LiveKey, Blackmagic System Preferences and Blackmagic driver on Mac OS X and Windows. Internal Software Upgrade: Firmware built into software driver.</p>	01	Nos.			

	<p>Loaded at system start or via updater software. Physical Installation: PCI Express 4 lane, compatible with 4, 8 and 16 lane PCI Express slots on Mac OS X, Windows and Linux. Software Applications DaVinci Resolve, Fusion, Premiere Pro CC, Avid Media Composer, After Effects CC, Avid Pro Tools, Steinberg Cubase, Steinberg Nuendo, Photoshop CC, Media Express, Nuke, Avid Symphony, Avid News Cutter, Tools On Air just:in&live:cut&just:play&just:live, SoftronOnTheAir, MovieRecorder and OnTheAir CG, Flash Media Live Encoder, Wirecast, Livestream Procaster, Resolume Avenue 4, Sony Vegas Pro, Corel VideoStudio Pro X4, CyberLink Power Director, MAGIX Video Pro X4, Vidblaster Pro & Studio & Broadcast, Uniplay, PlayboxAirBox, CasparCG, Magicsoft CG, Xsplit Broadcaster, Imagine Communications Velocity &InfoCaster. Video Standards SD Format Support: 525i59.94 NTSC, 625i50 PAL HD Format Support: 720p50, 720p59.94, 720p60, 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60, 1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30 1080i50, 1080i59.94, 1080i60 Ultra HD Format Support:2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30 4K DCI Format Support: 4K DCI 23.98p, 4K DCI 24p, 4K DCI 25p SDI Compliance: SMPTE 259M and 292M. SDI Metadata Support: VITC read for 3:2 pulldown removal. VANC capture using up to 3 lines of video in file. HD RP188 and closed captioning. Audio Sampling: Television standard sample rate of 48 kHz and 24 bit. Video Sampling: 4:2:2 Color Precision: 10-bit Color Space: REC 601, REC 709, REC 2020 HDMI Configuration: HDMI automatically configures to connected display. HDMI Resolution: Pixel for pixel HD resolution input to connected device. HDMI Color Precision: 10-bit Multiple Rate support: SDI and HDMI are switchable between standard definition and high definition. Copy Protection: HDMI input is unable to capture from copy protected HDMI sources. Always confirm copyright ownership before capture or distribution of content. Processing Color space Conversion: Hardware based real time. HD Up Conversion: Software based up conversion during video capture. Operating Systems: Mac OS X 10.10 Yosemite, Mac OS X 10.11 El Capitan or later. Windows 7, 8.1 and 10, all 64-bit. Linux Box Included: Deck Link Mini Recorder 4K, Low profile slot bracket, SD card with software and manual Warranty: 3 Year onsite Warranty.</p>					
17	<p>Connectors + Cables + Misc.</p> <p>SDI Female Connecters (Imported)</p> <p>SDI male Connecters (Imported)</p> <p>SDI Jointers (Imported)</p>	-	-	-	-	-
		20	Nos.			
		20	Nos.			
		10	Nos.			

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	SDI Cables 1 Meter (Imported)	20	Nos.			
	Mini SDI Female Connectors (Imported)	20	Nos.			
	Mini SDI male Connectors (Imported)	20	Nos.			
	HDMI Joints (Imported)	10	Nos.			
	HDMI to Mini HDMI convertor (Imported)	05	Nos.			
	Mini HDMI to HDMI convertor	05	Nos.			
	<u>USB OTG cables(2 B type to A type & 2 C-Type to A type)</u>	04	Nos.			
	<u>SDI Male to female jointer / convertor</u>	10	Nos.			
	<u>Imported Compression Connector Coax Adjustable Tool Crimper F BNC RCA RG58 RG59 RG6 Kit</u>	01	Nos.			
	<u>USB HUB with three (1 in, 3 out)</u>	03	Nos.			
	<u>Adjustable cable stripping tool</u>	02	Nos.			
18	<u>20000mAh Battery bank with USB cables type B & C for Micro convertor</u> Samsung or equivalent 20000mAh External Battery bank with USB cable	02	Nos.			
Grand Total Amount Rs. of (Sr. # 12 to 18)						

Special Terms and conditions:

- The bidders are required to provide the samples of Sr. # 3, 7, 11, 12, 14, 17, 18, 19 & 20 along with technical bid.
- Purchase / Work order will be awarded of sr.# 12, 13, 14, 15, 16, 17, 18 on turnkey / grand total amount basis and vendor will be bound to integrate complete system in all respect with working environment (Atem TVS, Quad 2, Mini recorder, Live Stream etc) whereas for the remaining items, Purchase order will be awarded on Item Wise basis.
- Please submit the technical and financial bid (s) on our prescribed BoQs and clearly mention the quoted model brands, otherwise your bid (s) may be rejected and also attach the terms and conditions (signed, stamped) with both bids.
- Kindly attach the tender fee with Technical Bid and Bid money / CDR with Financial Bid.
- Multiple rates of an item may also lead to the rejection of bid / item.

Signature & Stamp of Bidder