

**ASSAM ENGINEERING INSTITUTE  
CHANDMARI, GUWAHATI  
ASSAM -781003**

**Tel:- 0361-2134633  
E-mail:principal.aei@gmail.com  
Website: aei.org.in**

Ref No.: AEI/AICTE-NEQIP/2013-14/5414(A)

dated 16/11/2015

**NOTICE INVITING TENDER (NIT)  
FOR SUPPLY & INSTALLATION OF MACHINES & EQUIPMENTS TO ASSAM  
ENGINEERING INSTITUTE UNDER AICTE-NEQIP PROJECT  
(LIST XXIII)**

The Principal, Assam Engineering Institute invites quotation for supply & Installation of Machines & Equipments as per details at ANNEXURE-IV, in Two Bids to reach the undersigned on or before **31/11/2015**

Sl No.	Reference no.	Items	Qty	EMD (Rs.) in the form of DD (to be submitted with Technical Bid)	Tender Document Fee (Rs.) in the form of DD (to be submitted with Technical Bid)
01.	AEI/AICTE-NEQIP/2013-14/5414(A) dated 16/11/2015	<b>Supply &amp; Installation of Machines &amp; Equipments</b> to be installed at Assam Engineering Institute, Chandmari, Guwahati, Assam	<b>One Package</b>	@2%	500.00

**(1). Last date & Time for Submission: 31/11/2015 (14.00 HRS)**

**(2). Date/Time for Opening of Tech. Bids: 31/11/2015 (14.30 HRS)**

**After evaluation of technical bids, financial bids of the successful bidders will be opened on a later date which will be notified in the Institute website**

**Venue of Bid Opening: At Office of Assam Engineering Institute, Chandmari, Guwahati, Assam**

**BID INSTRUCTION:**

**01.** Quotations will have to be submitted in TWO Bids. The address of the firm submitting the quotation and the Officer to whom the quotation is addressed must appear distinctly on sealed covers. Further, on sealed cover, the following are to be written:

**QUOTATION FOR SUPPLY & INSTALLATION OF MACHINES & EQUIPMENTS TO  
ASSAM ENGINEERING INSTITUTE UNDER AICTE-NEQIP PROJECT (LIST XXIII).  
NIT REF NO. ...., Dt.....**

**02 Submission of Compliance Certificate:** Duly filled and signed Compliance Certificates (as per formats at Annexure I (A & B) are must with the Technical bid.

**03. Bid not transferable:** The bid documents are not transferable and the seal and signature of the authorized official of the firm's must appear on all the papers and envelopes submitted.

### **QUALIFICATION REQUIREMENTS**

1. The Bidder should be a firm of reputation having sufficient expertise and experience in the subject tender with sound warranty / service support capability and authorization from manufacturers.
2. The Bidder has to Quote for all the items in the NIT. Bidders who do not Quote for all the items are subject to be disqualified.
3. Sealed quotations must be affixed with court fee stamps of Rs. 8.25 (Rupees eight and paisa twenty five) only without which no quotation will be accepted.

### **NIT TERMS & CONDITIONS:**

01. **Rates:** Rates quoted in the **Price Bid** should be **on DOOR DELIVERY at AEI, Guwahati basis**, as per details below:

<b>Sl. No.</b>	<b>Particulars</b>	<b>Rate</b>
I	Basic Price (per unit) with installation and commissioning	
	Total	
	Taxes(pl. give break up)	
	Grand Total for door delivery of the item at AEI Premises	

Bidders shall indicate their rates in clear/visible figures as well as in words and shall not alter/overwrite/make cutting in the quotation. In case of a mismatch, the rates written in words will prevail.

02. **Validity of Quotation:** Quoted rates must be valid for **90 days** from the date of quotation.
03. **Warranty:** The quoted equipment and components must be warranted for a minimum of one Year or period specified against the item.
04. **Literature a must:** All the quotations must be supported by the printed technical leaflet/literature and the specifications mentioned in the quotation must be reflected/ supported by such printed technical leaflet/literature. The model and specifications quoted should **invariably be highlighted** in the leaflet/literature for easy reference.
05. **After Sales Service:** Vendors should clearly state the available nearest after sales service facilities in the region, without which their offers will be rejected.
06. **Dealership Certificate:** Dealers or Agents quoting on behalf of Manufacturer must enclose valid dealership certificate.
07. **Earnest Money:**  
Refundable earnest money deposit (EMD) @ 2% on Total Quoted Price through demand draft drawn in favour of "The Principal, Assam Engineering Institute", payable at Guwahati, will have to accompany the technical Bid. The EMD of unsuccessful bidders shall be returned after award of contract. EMD of the successful bidder will be released on submission of the Performance. Offers received without Earnest Money or valid Certificate shall be summarily rejected.

08. **Performance Bank Guarantee (PBG):** In case of items with order value of Rupees Five Lakhs (INR 5,00,000/-) and above, the successful bidder shall furnish an unconditional PBG (as per format at **Annexure II**) for 5% of the Purchase Order value from a scheduled Bank of India, after receiving the purchase order. Where the PBG is obtained by a foreign bank, it shall be got confirmed by a Schedule Indian bank and shall be governed by Indian Laws and be subject to the jurisdiction of courts at Guwahati. The PBG shall guarantee that,
- (a) The Vendor guarantees satisfactory operation of the Equipment & components against poor workmanship, bad quality of materials used, faulty designs and poor performance.
  - (b) The Vendor shall, at his own cost, rectify the defects/replace the items supplied, for defects identified during the period of guarantee.
  - (c) This guarantee shall be operative from the date of installation till 60 days after the warranty period.
09. **Delivery:**
- a) **Time Limit:** Maximum within 10-12 Weeks from the date of issue of this purchase order.
  - b) **Safe Delivery:** All aspects of safe delivery shall be the exclusive responsibility of the vendor. At the destination site, the package will be opened only in the presence of AEI user/representative and vendor's representative. The intact condition of the package and the seal/indicators for not being tampered with, shall form the basis for certifying the receipt in good condition.
  - c) **Insurance:** The supplier is to establish 'All Risk Transit Insurance' coverage till door delivery at AEI, Guwahati, Assam.
  - d) **Part Delivery:** Acceptance of part delivery shall be a prerogative of the institute.
10. **Conditional tenders not acceptable:** All the terms and conditions mentioned herein must be strictly adhered to by all the vendors. Conditional tenders shall not be accepted on any ground and shall be rejected straightway. Conditions mentioned in the tender bids submitted by vendors will not be binding on AEI, Guwahati.
11. **Road Permit:** Assam Engineering Institute will not provide any Road Permit to the Vendors.
12. **VAT deduction at source:** In case of suppliers within Assam, VAT deduction at source, as per Order/ notification of the Govt. of Assam will be applicable.
13. **Late and delayed tender:** Late and delayed tender will not be considered. In case any unscheduled holiday occurs on the prescribed closing/opening date the next working day shall be the prescribed date of closing/opening.
14. **Payment:** Payment will be released only after successful completion of installation and acceptance, Demo and Test run etc.
15. **Enquiry during the course of evaluation not allowed:** No enquiry from the bidder(s) shall be entertained during the course of evaluation of the tender till final decision is conveyed to the successful bidder(s). However, the Purchase Committee or its authorized representative may make enquiries/seek clarification from the bidders. In such a case, the bidder must extend full co-operation. The bidders may also be asked to arrange demonstration of the offered items, in a short period of notice.
16. The acceptance of the quotation will rest solely with the Principal, AEI, who in the interest of the Institute is not bound to accept the lowest quotation and reserves the right to himself to reject or partially accept any or all the quotations received without assigning any reasons.
17. **Force Majeure:**  
If the performance of the obligation of either party is rendered commercially impossible by any of the events hereafter mentioned that party shall be under no obligation to perform the agreement

under order after giving notice of 15 days from the date of such an event in writing to the other party, and the events referred to are as follows:

- i. Any law, statute or ordinance, order action or regulations of the Government of India,
- ii. Any kind of natural disaster, and
- iii. Strikes, acts of the Public enemy, war, insurrections, riots, lockouts, sabotage.

**18. Applicable Law:**

- (a) The contract shall be governed by the laws and procedures established by Govt. of India and subject to exclusive jurisdiction of Competent Court and Forum in Guwahati/Assam.
- (b) Any dispute arising out of this purchase shall be referred to The Principal, Assam Engineering Institute, Guwahati, Assam and if either of the parties hereto is dissatisfied with the decision, the dispute shall be referred to the decision of an Arbitrator, who should be acceptable to both the parties, to be appointed by the Principal of the Institute. The decision of such Arbitrator shall be final and binding on both the parties.

**Sd/-**

Principal,  
Assam Engineering Institute,  
Chandmari, Guwahati

**Encl.: ANNEXURE-I, ANNEXURE-II, ANNEXURE-III, ANNEXURE-IV & ANNEXURE-V**

**Annexure -I**

**A. COMPLIANCE CERTIFICATE FOR NIT TERMS**  
(To be enclosed in the Technical bid)

<b>Sl. No.</b>	<b>NIT Terms and Conditions</b>	<b>Yes/No</b>
01	<b>Rate</b> quoted as per instruction	
02	<b>Validity</b> of quoted rate for 90 days agreed	
03	<b>EMD</b> submitted (appropriate certificate enclosed)	
04	<b>PBG</b> term agreed	
05	<b>Payment</b> term agreed	
06	<b>Delivery terms</b> agreed	
07	<b>Warranty period</b> agreed	
08	<b>Literature:</b> Printed Literature provided	
09	<b>Dealership</b> / distributorship certificate (in case of dealers/agents) provided	
10	<b>Sales Service:</b> address of after Sales Service centre in India (for imported goods)/ in the region provided	
11	<b>Applicable law</b> terms agreed	

Signature with Seal:.....

Vendor: M/s.....

**B. COMPLIANCE CERTIFICATE FOR SPECIFICATIONS**  
(One for each item must to be enclosed in the Technical bid)

<b>Item Sl. No.</b>	<b>Specifications as per Annexure-IV</b>	<b>Quoted Item Specs.*</b>	<b>Complied (Yes/No)</b>

Signature with Seal:.....

Vendor: M/s.....

**\* Vendor must quote the parameter specification of the quoted product in this column and not just copy the specification from the tender call document. Failure to do so will lead to rejection of the tender.**

**Annexure -II**

**PERFORMANCE BANK GUARANTEE**

To:

The Principal,  
Assam Engineering Institute,  
Guwahati, Assam

**WHEREAS** ..... (Name of Supplier) hereinafter called "the Supplier" has undertaken, in pursuance of Contract No..... dated,..... 20... to supply..... (Description of Goods and Services) hereinafter called "the order".

**AND WHEREAS** it has been stipulated by you in the said order that the Supplier shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the order.

**AND WHEREAS** we have agreed to give the Supplier a Guarantee:  
**THEREFORE WE** hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of ..... (Amount of the Guarantee in Words and Figures) and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the order and without cavil or argument, any sum or sums within the limit of ..... (Amount of Guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the .....day of.....20.....

Signature and Seal of Guarantors

.....  
.....  
.....

Date.....20....

Address:.....

.....  
.....

All correspondence with reference to this guarantee shall be made at the following address:

The Principal,  
Assam Engineering Institute,  
Guwahati, Assam-781003

**Annexure -III**

**MANUFACTURERS' AUTHORIZATION FORM**

No.

Dated \_\_\_\_\_

The Principal,  
Assam Engineering Institute,  
Guwahati, Assam

Dear Sir,

We..... who are established and reputable  
manufacturers of .....having factories at-  
-----  
-----

(address of factory) do hereby certify  
that.....

.....(Name of the Authorised Dealer)is our authorized dealer to quote against your  
tender enquiry no

..... ,  
**Last Date of Submission is:**

No other Company other than .....(Name  
of the Authorized Dealer) is authorized to quote of our products against this Tender Enquiry  
No.....

Yours faithfully,  
(Name)  
(Name of manufacturers)

Annexure –IV

TECHNICAL SPECIFICATIONS

Sl. No.	Item	Technical Specifications	Quantity (Nos.)
1	Multi Function Laser Printer	Canon imageCLASS MF217w, Print resolution: up to 1200 x 1200dpi (equivalent), Wired LAN, Wi-Fi 802.11 b/g/n with WPS Push Button mode, Monthly Print Volume: 500 - 2,000 pages, 1 yr Warranty, <b>Details as per Annexure V</b>	1
2	Inkjet Colored Printer & Scanner	Epson L220, Multi-function printer with integrated ink tanks for cost-effective and reliable colour printing, copying and scanning, 1 yr Warranty, <b>Details as per Annexure VI</b>	1
3	Document Sheet Fed Scanner	Canon DR-C225 / 225W, Space Saving Design To feeding and default top eject Upright design Dimensions (H x W x D): 8.7" x 11.8" x 6.1" , Cable routing from either side of the scanner High Image Quality, Shadow Cropping DE skew / straighten scanned images, Auto Resulting setting for scanning mixed batches, text documents and photographs, Auto color Detection, optical Character Recognition (CR), 1 yr Warranty, <b>Details as per Annexure VII</b>	1
4	DLP Projector	Panasonic DLP Projector PT-LX 300, Up to 3,000 lm of brightness in a compact body, Wt of 2.5 kg, High contrast ratio of up to 7,500:1 , Maximum 10,000-hour lamp replacement cycle, Intelligent Lamp Control, 8 W high-output speaker, 1 yr Warranty, <b>Details as per Annexure VIII</b>	1
5	Visual Studio Software	Visual Studio Professional 2013 Academic	1
6	UPS	650 KVA, 20 minutes back up	1



**Annexure –V**

**Specifications for Canon imageCLASS MF217w**

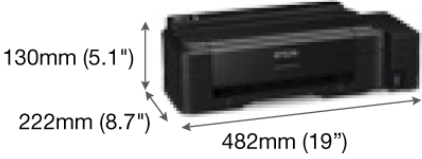
<b>Print</b>	
Printing Method	Monochrome Laser Beam Printing
Print Speed A4	Up to 23ppm
Print Resolution	600 x 600dpi
Print Quality with Image Refinement Technology	1200 x 1200dpi (equivalent)
Warm up Time (From Power On)	13.5sec. or less
First Printout Time (FPOT)	Approx. 6sec.
Recovery Time (From Sleep Mode)	Approx. 2sec.
Print Language	UFR II LT
Print Margins	5mm - top, bottom, left and right (Other sizes than Envelope) 10mm - top, bottom, left and right (Envelope)
Print Features	Poster, Watermark, Page Composer, Toner Saver
<b>Copy</b>	
Copy Speed A4	Up to 23ppm
Copy Resolution	600 x 600dpi
First Copy Time (FCOT)	Approx. 9sec.
Maximum Number of Copies	Up to 99 copies
Reduce / Enlargement	25 - 400% in 1% increments
Copy Features	Memory Sort, 2 on 1, 4 on 1, ID Card Copy
<b>Scan</b>	
Scan Resolution	Optical: Up to 600 x 600dpi
	Driver Enhanced: Up to 9600 x 9600dpi
Colour Depth	24-bit
Pull Scan	Yes, USB and Network
Push Scan (Scan To PC) with ToolBox	Yes, USB and Network
Scan Features	TWAIN, WIA (Scan Driver Compatibility)
<b>Fax</b>	
Modem Speed	Up to 33.6Kbps
Fax Resolution	Up to 200 x 400dpi
Compression Method	MH, MR, MMR
Memory Capacity (*1)	Up to 256 pages
One-touch Dial	4 dials
Coded Dial	Up to 100 dials
Group dials / Destinations	Max 103 dials / destinations
Sequential Broadcast	Max 114 destinations

Receive Mode	Fax Only, Manual, Answering, Fax / Tel Auto Switch	
Memory Backup	Permanent fax memory back-up	
Fax Features	Fax Forwarding*, Dual Access, Remote Reception, PC Fax (Transmission only), DPRD, ECM, Auto Redial, Fax Activity Reports, Fax Activity Results Reports, Fax Activity Management records	
<b>Paper Handling</b>		
Auto Document Feeder (ADF)	35 sheets (80g/m <sup>2</sup> )	
Available Paper Size for ADF	A4, B5, A5, B6, Letter, Legal (Min. 105 x 148mm to Max. 356 x 216mm)	
Paper Input (Standard)	250-sheet Cassette 1-sheet Multipurpose Tray * Plain Paper (60-80g/m <sup>2</sup> )	
Paper Output	100 sheets (face down, 68g/m <sup>2</sup> A4)	
Paper Sizes	Standard Cassette:	A4, B5, A5, Legal, Letter, Executive, Statement, Officio , B-Officio, M-Officio, Government Letter, Government Legal, Foolscap, 16K, Index Card, Australia Foolscap, Indian Legal, Envelope: COM10, Monarch, C5, DL Custom ( Min. 76.2 x 210mm to Max. 216 x 356mm )
	Multipurpose Tray:	A4, B5, A5, Legal, Letter, Executive, Statement, Officio , B-Officio, M-Officio, Government Letter, Government Legal, Foolscap, 16K, Index Card, Australia Foolscap, Indian Legal, Envelope: COM10, Monarch, C5, DL Custom ( Min. 76.2 x 127mm to Max. 216 x 356mm )
Paper Types	Plain, Heavy, Recycled, Transparency, Label, Envelope	
Paper Weight	Standard Cassette:	60 to 163g/m <sup>2</sup>
	Multipurpose Tray:	60 to 163g/m <sup>2</sup>
<b>Connectivity &amp; Software</b>		
Standard Interfaces	Wired:	USB 2.0 High-Speed, 10/100 Base-T Ethernet (Network)
	Wireless:	Wi-Fi 802.11b/g/n (Infrastructure mode, WPS Easy Setup)
Network Protocol	Print:	LPD, RAW, WSD-Print (IPv4, IPv6)
	Scan:	WSD-Scan (IPv4, IPv6)
	TCP/IP Application Services:	Bonjour (mDNS), DHCP, BOOTP, RARP, Auto IP (IPv4), DHCPv6 (IPv6)
	Management:	SNMPv1 (IPv4,IPv6)
Network Security	Wired:	IP/Mac address filtering
	Wireless:	WEP 64/128 bit, WPA-PSK (TKIP/AES), WPA2-PSK (AES), 802.1x (LEAP, EAP-FAST, PEAP, EAP-TLS, EAP-TTLS)

One-Push Wireless Configuration	Wi-Fi Protected Setup (WPS)	
Mobile Print	Canon Mobile Printing, Canon Mobile Scanning, Apple AirPrint™, Google Cloud Print™, Canon Print Service, opria™.	
Compatible Operating Systems (*2)	Windows 8.1, Windows 8, Windows 7, Windows XP, Windows Vista, Windows Server 2012 R2, Windows Server 2012, Windows Server 2008 R2, Windows Server 2008, Windows Server 2003, Mac OS X 10.5.8 & up (*3), Linux (*4)	
Software Included	Printer driver, Fax driver, Scanner driver, MF Toolbox, AddressBookTool, Presto! PageManager, SSID Tool, Toner Status	
<b>General</b>		
Device Memory	256MB	
LCD Display	6-line BW Touchscreen LCD (Vari-Angle Operation Panel)	
Dimensions (W x D x H)	390 x 371 x 360mm (Cassette closed) 390 x 441 x 360mm (Cassette opened)	
Weight	11.5kg (12.1kg with cartridge)	
Power Consumption	Maximum:	1,270W or less
	Average; During Operation:	Approx. 500W
	Average; During Standby:	Approx. 5.4W
	Average; During Sleep:	Approx. 1.6W Approx 2.0W (wireless)
Noise Levels (*5)	During Operation:	Sound Pressure Level (Bystander's position): 50dB in printing Sound Power Level : 6.5B
	During Standby:	Sound Pressure Level (Bystander's position): Inaudible (*6) Sound Power Level : 43dB or less (standard value)
Operating Environment	Temperature:	10 to 30°C
	Humidity:	20% to 80% RH (no condensation)
Power Requirements	AC 220 to 240V, 50 / 60Hz	
Toner Cartridge (*7)	Cartridge 337: 2,400 pages (bundled cartridge: 1,700 pages)	
Monthly Duty Cycle (*8)	Up to 8,000 pages	
Recommended Monthly Print Volume	500 - 2,000 pages	
<b>Warranty</b>	<b>One Year Manufacturer's Warranty</b>	

**Annexure –VI****Specifications for Epson L220**

<b>MODEL NUMBER</b>	<b>L220</b>
<b>Printing</b>	
Print Method	On-demand ink jet
Nozzle Configuration	180 nozzles Black, 59 nozzles each colour (Cyan, Magenta, Yellow)
Print Direction	Bi-directional printing, Uni-directional printing
Maximum Resolution	5760 x 1440 dpi (with Variable-Sized Droplet Technology)
Minimum Ink Droplet Volume	3pl
<b>Print Speed</b>	
Max Black Draft Text - Memo (A4)	Approx. 27 ppm #1 / 15 ppm #2 (Bk/Cl)
ISO 24734, A4	Approx. 7.0 ipm / 3.5 ipm (Bk/Cl)
Max Photo Draft - 10x15cm/4x6"	Approx. 27 sec per photo (W/Border)
Photo Default - 10x15cm/4x6"	Approx. 69 sec per photo (W/Border)
Double-sided Printing	Yes (Manual)
<b>Copying</b>	
Copy Speed	
Max. Black Draft Text - Memo (A4)	Approx. 5 sec (Draft)
Max. Colour Draft Text - Memo (A4)	Approx. 10 sec (Draft)
Copy Mode	Standard copy mode
Maximum Copies From Standalone	20 sheets (Button pressing frequency)
<b>Scanning</b>	
Scanner Type	Flatbed colour image scanner
Sensor Type	CIS
Optical Resolution	600 dpi
Maximum Hardware Resolution	600 x 1200 dpi
Maximum Scan Area	216 x 297mm (8.5 x 11.7")
Scanner Bit Depth	
Colour	48-bit internal, 24-bit external
Grayscale	16-bit internal, 8-bit external
Black & White	16-bit internal, 1-bit external
Scan Speed	
Monochrome 300 dpi	2.4 msec/line
Colour 300 dpi	9.5 msec/line
Monochrome 600 dpi	7.2 msec/line
Colour 600 dpi	14.3 msec/line
<b>Paper Handling</b>	
Paper Feed Method	Friction feed
Number of Paper Trays	1

Paper Hold Capacity		
Input Capacity	50 sheets, A4 Plain paper (75g/m <sup>2</sup> ) 10 sheets, Premium Glossy Photo Paper	
Output Capacity	30 sheets, A4 Plain paper (Default Text - Memo) (Draft Text - Memo) 20 sheets, Premium Glossy Photo Paper (10x15cm/4x6", 13x18cm/5x7", 9x13cm/3.5x5")	
Paper Size	A4, A5, A6, B5, 10x15cm(4x6in), 13x18cm(5x7in), 9x13cm(3.5x5in), Letter(8 1/2x11in), Legal(8 1/2x14in), Half Letter(5 1/2x8 1/2in), 13x20cm(5x8in), 20x25cm(8x10in), 16:9 wide size, 100x148mm, Envelopes: #10(4 1/8x9 1/2in), DL(110x220mm), C6(114x162mm)	
Maximum Paper Size	8.5 x 44"	
Print Margin	3mm top, left, right, bottom	
<b>Connectivity</b>		
Standard	USB - Compatible with the USB 2.0 Specification	
<b>Printer Software</b>		
Operating System Compatibility	Windows XP/XP Professional x64 Edition/Vista/7/8/8.1 Mac OS X 10.6.8, 10.7.x, 10.8.x, 10.9.x	
<b>Electrical Specifications</b>		
Rated Voltage	AC 100-240V	
Rated Frequency	50~60Hz	
Power Consumption		
Standalone Copying	N.A.	
Printing	Approx. 12W	
Standby	Approx. 3.8W	
Sleep	Approx. 0.8W	
Power Off	Approx. 0.3W	
<b>Epson Genuine Ink Bottle</b>		
	<b>Order Code</b>	
Black	T6641	4,000 Pages Yield
Cyan	T6642	6,500 Pages Composite Yield
Magenta	T6643	
Yellow	T6644	
<b>Dimensions and Weight</b>		
<b>Weight:</b> 2.7kg (6.0lb)		
 <p>130mm (5.1") 222mm (8.7") 482mm (19")</p>		
<b>Warranty: One Year Manufacturer's Warranty</b>		

**Annexure –VII**

**Specifications for Canon DR-C225 / 225W**

<b>Type</b>	Desktop sheet-fed scanner		
<b>Document size</b>	Plain paper	U-turn path:	Width: 50.8 to 216mm, Length:70 to 356mm
		Straight path:	Width: 50.8 to 216mm, Length:53.9 to 356mm Use Long Document mode to scan documents up to 3,000mm long
	Business card	50 x 53.9mm or larger. Vertical feeding only	
	Plastic Card	53.9 x 85.5mm (ISO standard). Embossed cards can be scanned	
<b>Document thickness</b>	Plain paper	U-turn path:	52 - 128g/m <sup>2</sup> (0.06 - 0.15mm)
		Straight path:	40 - 209g/m <sup>2</sup> (0.05 - 0.25mm)
	Business card	300g/m <sup>2</sup> 0.35mm or less	
	Plastic Card	0.76mm or less	
<b>Document feeding</b>	Automatic sheet feeding		
<b>Feeding Capacity</b>	6mm stack (including curls) or 30 sheets of 80g/m <sup>2</sup>		
<b>Scanning element</b>	CMOS CIS		
<b>Light source</b>	LED (Red, Green, and Blue)		
<b>Scanning side</b>	Simplex / Duplex / Skip Blank Page / Folio		
<b>Scanning modes</b>	Black and white, Error diffusion, Advanced Text Enhancement, Advanced Text Enhancement II (for Windows only), 256-level grayscale, 24-bit colour		
<b>Scanning Resolutions</b> * <sup>1</sup>	150 x 150dpi, 200 x 200dpi, 300 x 300dpi, 400 x 400dpi, 600 x 600dpi		
<b>Scanning Speed</b> * <sup>2</sup> (A4 / LTR, Portrait, 200dpi)	Simplex:	25ppm	
	Duplex:	50ipm	
<b>Interfaces</b>	Hi-Speed USB 2.0		
<b>Software</b>	Windows:	ISIS / TWAIN driver, CaptureOnTouch, Presto! BizCard, Omnipage, PaperPort, eCopy PDF Pro Office, Evernote * <sup>2</sup>	
	Mac * <sup>3</sup> :	TWAIN driver, CaptureOnTouch, Presto! BizCard, Presto! PageManager, Evernote * <sup>2</sup>	
<b>Dimensions (W x D x H)</b>	300 x 220 x 156mm with the feed tray closed		
<b>Weight</b>	DR-C225:	Approx. 2.7kg	
	DR-C225W:	Approx. 2.8kg	
<b>Power Requirements</b>	AC100 to 240V (50 / 60Hz)		
<b>Power Consumption</b>	DR-C225:	Scanning:	12.8W or less
		Sleep:	1.8W or less
		OFF:	0.5W or less

	DR-C225W:	Scanning: 15.6W or less
		Sleep: 4.4W or less
		OFF: 0.5W or less
<b>Operating environment</b>	Temperature:	10°C to 32.5°C
	Humidity:	20% to 80% RH
<b>Options / Consumables</b>	Flatbed Scanner Unit 101/201 (DR-C225 only), Exchange Roller Kit (feed roller and retard roller)	
<b>Basic wirelessLAN Specifications (DR-C225W only)</b>	Wireless Standard:	IEEE802.11b/g/n (2.4GHz only)
	Frequency:	2.4GHz band
	Transfer method:	IEEE802.11b: DS-SS system IEEE802.11g: OFDM system
	Data rate <sup>*4</sup> :	IEEE802.11n: MIMO-OFDM system IEEE802.11b: Up to 11Mbps IEEE802.11g: Up to 54Mbps IEEE802.11n: Up to 300Mbps
	Security:	WPA-PSK (TKIP / AES), WPA2-PSK (TKIP / AES)
	Easy setting:	WEP (64 / 128 bit)
	Connection Mode:	WPS
<b>Warranty</b>	<b>One Year Manufacturer's Warranty</b>	

## Annexure –VIII

### Specifications for Panasonic DLP Projector PT-LX 300

Panel size	14 mm (0.55 in) (4:3 aspect ratio)
Display method	DLP™ chip x 1, DLP™ projection system
Pixels	786,432 (1,024 x 768) pixels
Lamp	190 W UHM lamp
Brightness	3,000 lm
Center-to-corner uniformity	80 %
Contrast ratio	4,000:1 (full on/full off, During RGB signal input, Color mode: Dynamic, Lamp power: Normal)
Resolution	1,024 x 768 pixels (Input signals that exceed this resolution will be converted to 1,024 x 768 pixels.)
Lens	1.1x Manual zoom (1.95-2.15:1 throw ratio), manual focus, F 2.41-2.53, f=21.8-24 mm
Lamp replacement cycle (Normal / Eco/ AUTO)	4,500 / 6,000 / 10,000 hours
Screen size (diagonal)	0.76-7.62 m (30-300 in), 4:3 aspect ratio
Optical axis shift	10:-1.5
Scanning frequency	HDMI fH: 15-91.1 kHz, fV: 24-85.1 Hz, dot clock: 25-162 MHz
	RGB (analog) fH: 15-91.1 kHz, fV: 24-85.1 Hz, dot clock: 162 MHz or lower
	YPBPR (YCBCR) fH: 15.75 kHz, fV: 60 Hz [480i (525i)] fH: 15.63 kHz, fV: 50 Hz [576i (625i)] fH: 31.50 kHz, fV: 60 Hz [480p (525p)] fH: 31.25 kHz, fV: 50 Hz [576p (625p)] fH: 45.00 kHz, fV: 60 Hz [720 (750)/60p] fH: 37.50 kHz, fV: 50 Hz [720 (750)/50p] fH: 33.75 kHz, fV: 60 Hz [1080 (1125)/60i] fH: 28.13 kHz, fV: 50 Hz [1080 (1125)/50i] fH: 27.00 kHz, fV: 24 Hz [1080 (1125)/24p] fH: 67.50 kHz, fV: 60 Hz [1080 (1125)/60p] fH: 56.25 kHz, fV: 50 Hz [1080 (1125)/50p]
	Video fH: 15.75 kHz, fV: 60 Hz [NTSC/NTSC4.43/PAL-M/PAL60], fH: 15.63 kHz, fV: 50 Hz [PAL/PAL-N/SECAM]
Terminals	HDMI IN HDMI 19-pin x 1 (Deep color, compatible with HDCP), audio signal: linear PCM (Sampling frequency: 48 kHz, 44.1 kHz, 32 kHz)
	COMPUTER IN D-sub HD 15-pin (female) x 1 [RGB/YPB(CB)/PR(CR) x 1]
	VIDEO IN Pin jack x 1
	MONITOR OUT D-sub HD 15-pin (female) x 1
	SERIAL IN Mini DIN 3-pin (female) x 1 for external control (RS-232C compliant)
	AUDIO IN M3 x 1 (L-R x 1)
	AUDIO OUT M3 x 1 (L-R x 1) for output (variable)
Built-in speaker	4 x 2 cm oval shape x 1, output power 2 W (monaural)
Keystone correction range	Vertical: ±40° (manual)
Installation	Ceiling/floor, front/rear
Cabinet materials	Moulded plastic
Power supply	100-240 V AC, 50/60 Hz
Power consumption	218 W (0.5 W when STANDBY MODE set to ECO, 6.0 W when STANDBY MODE set to NORMAL.)
Dimensions (W x H x D)	286 x 100.6 x 192 mm (11-1/4 x 3-31/32 x 7-9/16 in)
Weight	Approximately 2.3 kg (5.1 lbs)
Operation Noise	34 dB (Lamp power: Normal), 29 dB (Lamp power: Eco)
Operating temperature	5-40°C [41-104°F] (Less than 750 m [2,500 ft] above sea level), 5-35°C [41-95°F] (between 750 and 1,500 m [2,500 ft and 5,000 ft] above sea level), 5-30°C [41-86°F] (between 1,500 and 3,000 m [5,000 ft and 10,000 ft] above sea level)
Operating humidity	20 %-80 % (no condensation)
Supplied accessories	Power cord (1.8 m) x 1, wireless remote control unit x 1, lithium coin cell battery x 1, computer cable (1.8 m) x 1
Warranty	One Year Manufacturer's Warranty