A Request for Proposal Hardware, Peripherals, Video Conferencing



Narayantar, Jorpati T: 4917444 E: <u>info@nami.edu.np</u>

Table of Contents

Section 1: LETTER OF INVITATION	
Section 2: INFORMATION to consultants	5
Section 3. BOQ for Hardware equipments:	6
Section 4: Technical Specifications	
Section 5. Authorized Certificate – Dealership / Distribution	
Section 6. Company Profile	



NAAYA AAYAM MULTI-DISCIPLINARY INSTITUTE (NAMI)

JORPATI, KATHMANDU

INVITATION FOR TENDER

(First Date of Publication: 29th July, 2013)

The Naaya Aayam Multi-disciplinary Institute is a newly established institution, only partner institute of an international, 1-tier university, The University of Northampton, and is decided to provide the top-notch academic services of the people in Nepal. The NAMI invites tender for the following items

SN	Particulars	Quantities	SN	Particulars	Quantities
1	Desktop Computer (First Phase)	175	11	Scanner	3
2	Desktop Computer / THIC PC VPCC Technology (e-Library) (First Phase)	50	12	Projector - Long Range	10
3	Academic Server	1	13	Projector -Mid Range	16
4	Application Server	1	14	Projector Screen	26
5	Laptop – Type L1	5	15	Attendance Devices	5
6	Laptop – Type L2	10	16	Audio System	10
7	Laser Printer	5	17	Barcode Reader	4
8	3 in one with combination of Printer, Photocopy, Scanner & FAX	2	18	Video Conferencing Devices	1
9	Fax	1	19	Wireless Access Points – Indoor (Passage, Room)	12
10	Copier	1	20	Interactive Board	10

- Technical Specification and other necessary information required for BID are provided in the tender document.
- The interested bidders can inspect and purchase the tender documents within the office hours beginning from 29 July 26, 2013 at the address stated below. The TOR will be made available with a bank voucher of **NPR 5,000.00** from the office and the procurement portal http://proc.nami.edu.np and the concerned account numbers are as follows
 - Name of Account : Naaya Aayam Multi-disciplinary Institute Ltd.
 - Name of Bank : Nepal Investment Bank Ltd.

Account No: 03601040252447

- Name of Bank: Sanima Bank Ltd.
 - Account No: 001-0010001100301
- The validity of the tender must be for 90 days after the deadline for submission of the Tender Document. The bid must be accompanied by a Bid Security for the amount not less than 2.5% of the bid amount (including VAT). The validity of the bid security shall be at least 120 days after the deadline of the submission of Tender Document.
- Key data for the tender submission:
- Office of the stakeholder / using procurement portal (<u>http://proc.nami.edu.np</u>)
- Last Purchase Date: 6th August, 2013, 5:00 PM
- Submission Dead Line: 7th August, 2013; 2:00 PM
- Opening Date: 7th August, 2013; 3:00 PM
- The tender documents will be opened immediately on the said time and date in the presence of the bidders / representatives who choose to attend and choose to attend the bid opening and the letter of authorization to attend the bid opening is must.
- NAMI reserves right to accept or reject any or all bids without assigning any reason whatsoever.

Address:

NAAYA AAYAM MULTI-DISCIPLINARY INSTITUTE (NAMI)

Narayantar, JORPATI, KATHMANDU, T: 977 1-4917444 E: info@nami.edu.np

Section 1: LETTER OF INVITATION

NAMI has allocated fund towards the cost for the supply of Hardware and Peripheral Components with the college level ERP Software for the management and operation of NAMI activities and intends to apply a portion of this fund to eligible payments under this contract. The RFP does have a number of different components related to Hardware, Peripherals and application software and Power System.

NAMI now invites proposals from the bidders for the successful installation of the listed components in the premise of NAMI.

The RFP includes the following documents:

Section 1 - Letter of Invitation Section 2 - Information to Consultants Section 3 – Bill of Quantities (BOQ) Section 4 – Technical Specifications Section 5 – Authorized Certificate – Dealership / Distribution Section 6 – Company Profile – List of Corporate Clients only for the last 5 years

- Installation & Deployment Plan

- Terms and Conditions for the Support and Service

Yours sincerely,

Mr. Yog Raj Kandel Sharma CEO NAMI

Section 2: INFORMATION to consultants

2.1	The name of the Client is: Naaya Aayam Multi-disciplinary Institute (NAMI), Jorpati
2.2	List of the followings is mandatory:
	1. Legal Documents [Registration, VAT/ PAN, TAX Clearance Certificate of 068/69]
	2. Authorized Dealership / Distribution Certificate
	3. List of Corporate Clients (Last 2 Years)
	 Certificate issued by the clients for the successful completion of the supply, installation and service
	(Warranty)
2.3	A pre-proposal conference will be held: No
2.4	The Client will provide the following inputs: Information available and possible data after the project is awarded to a consultant according to the site requirements
2.5	Clarification may be requested before the submission of the tender documents before the last submission date.
2.0	The address for requesting clarifications is:-
	NAMI
	CEO
	<u>ceo@nami.edu.np</u> info@nami.edu.np
	T: 4917444
2.6	Proposals should be submitted in the following language(s): English
2.7	I. 100 % successful installation, testing of the installed equipments and the reports must be approved by the
	consultant. This approved report must be signed by the procurement unit head for its verification.
	II. Performance Bond as 5% of the total will be retained for the duration of the warranty period
	III. The installed device must be serviced within 3 working days from its information conveyed to the concerned party otherwise, the party will be penalized according to the rule of penalty listed in the contract
	agreement.
	IV. Partial award of the listed items may be possible
	V. The service provider will have to demonstrate the listed items on site in case of its requirements
2.8	Proposals must remain valid 90 days after the last submission date
2.9	The proposal submission details:
	It is requested to submit the proposal using the e-procurement portal of NAMI at the following URL: www.proc.nami.edu.np
	www.nami.edu.np
	Hints for using the eProcurement Portal of NAMI:
	 Register Your Organization Complete the company Profile
	3. Upload the filled BOQ and the legal documents
	4. Upload the Technical Specifications and the certificates for the listed items
	5. Key data:
	 Last Purchase Date: 6th August, 2013, 5:00 PM
	 Submission Dead Line: 7th August, 2013; 2:00 PM
	 Opening Date: 7th August, 2013; 3:00 PM
	Cost of the RFP: NPR. 5,000.00

SN	Particulars	Quantities	Rate	Amount	In Words, (NPR)
1	Desktop Computer -Type A1	165			
	Desktop Computer -Type A2				
2	Desktop Computer -Type A3	50			
	PC Terminals – Thin Client System [Complete System]				
3	Academic Server	1			
4	Application Server	1			
5	Laptop – Type L1	5			
6	Laptop – Type L2	10			
7	Laser Printer	5			
8	3 in one with combination of Printer, Photocopy, Scanne & FAX	2			
9	Fax	1			
10	Copier	1			
11	Scanner	3			
12	Projector - Long Range	10			
13	Projector -Mid Range	16			
14	Projector Screen	26			
15	Attendance Devices	7			
16	Audio System	10			
17	Barcode Reader	4			
18	Video Conferencing Devices	1			
19	Wireless Access Points – Indoor (Passage, Room)	12			
20	Interactive Board	10			

Section 3. BOQ for Hardware equipments:

RFP for NAMI Hardware and Peripherals

Total in Figure	
13% VAT	
Net Total	
Total in Words: (NPR)	
 Signature:	
 Name:	
 Company Seal:	
company coan	

SN	Particulars	Technical Specificatio	ns		Remarks
1	Desktop	I	nstalled OS	Windows® 7 Professional 64-bit	Note: Bidder
	Computer - Type C1		CPU	Minimum: Intel $\ensuremath{\mathbb{B}}$ Core i5 processor With enhanced Intel Speed Step $\ensuremath{\mathbb{B}}$ technology	<i>can propose for Core i7/ i10</i>
		C	lock speed (when Max turbo frequency)	Greater or equivalent 3.60 GHz	If (Core i7 or
			Number of cores/threads	4/4	higher)
			L3 cache memory	6 MB	quote it
		N	lemory bus	1,600 MHz	as Type C1 else
			Chipset	Intel® B75 Express chipset	quote the
		S	ecurity chip	TPM (TCG v1.2)(not provided on models sold in China)	price for Type
		Memory (main m	nemory), maximum capacity	DDR3-SDRAM PC3-12800 4 GB [DIMM slot x 4], 8 GB max.	<i>C2</i> (Core i5)
			Graphics accelerator	Intel® HD Graphics 2500 (built into CPU)	DVD in every
			Video RAM	Max. 1550 MB	PC is not
		Audios	source and sound	Intel® High Definition Audio	required
		Communication	LAN	1000BASE-T/100BASE-TX/10BASE-T, Remote Power On (Wake on LAN) functions supported	
		HDD Optical drive		500 GB, Serial ATA/600, 7200 rpm, SMART functions supported	3 Years of
				DVD super multi drive/DVD-ROM drive	Warranty
		Keyt	poard & mouse	English PS/2 104 keyboard & USB optical sensor mouse PS/2 109 keyboard & USB optical sensor mouse	
			USB	USB 3.0 $ imes$ 2 (on rear), USB 2.0 $ imes$ 4 (2 ports on front, 2 ports on rear)	
			Serial	RS-232C D-sub 9 pin $ imes$ 1, up to 115.2 kbps	
			Parallel	-	
		Interfaces	Display	DVI-D 24 pin $ imes$ 1 (HDCP compatible), mini-D-sub 15 pin $ imes$ 1	
		Internaces	PS/2	Mini DIN 6 pin $ imes$ 2	
			Communication	RJ45 LAN connector ×1	
			Sound	Microphone input: stereo mini jack \times 1, headphone/line output: stereo mini jack \times 1, Line input: Stereo mini jack \times 1	
		Bays	Bays	1 slot (taken by HDD) [0]	

Section 4: Technical Specifications

		5" bay [empty]	1 slot (taken by optical drive) [0]	
		PCI slot [empty]	1 slot (Low Profile) [1]	
		Expansion slots PCI Express \times 1 slot [empty]	1 slot (Low Profile) [1]	
		Power supply	100 to 240 VAC \pm 10%, 50/60 Hz (only sinusoidal waveform is supported as input waveform)	
		Maximum power consumption	Approx. 149 W	
		Maximum apparent power	Approx. 151 VA	
		Dimensions (body only)	98 (W) \times 385 (D) \times 343 (H) mm (excluding stabilizer), 220 (W) \times 385 (D) \times 343 (H) mm (including stabilizer)	
		Weight (body only)	Approx. 8.2 kg	
		Temperature and humidity conditions	10 to 35°C, 20 to 80% (non-condensing)	
		OS for which drivers are supported	Windows® 7 Professional / Ultimate 32-bit (SP1)	
		Main accessories	stabilizer, reinstallation media, etc.	
	Desktop Computer - Type C2			Minimum Core i5 remaining the
2	Desktop	Installed OS	Windows® 7 Professional 64-bit	same Minimum
	Computer -	CPU	Intel® Core™ i3-3220 processor	Core i3
	Туре СЗ	Clock speed (when Max turb frequency)	•	
		Number of cores/threads	2/4	
		L3 cache memory	3 MB	3 Years of
		Memory bus	1,600 MHz	Warranty
		Chipset	Intel® B75 Express chipset	DVD in each
		Security chip	TPM (TCG v1.2)(not provided on models sold in China)	PC is not
		Memory (main memory), maximum capacity	DDR3-SDRAM PC3-12800 4 GB [DIMM slot x 4], 8 GB max.	required
		Graphics accelerator	Intel® HD Graphics 2500 (built into CPU)	
		Video RAM	Max. 1550 MB	
		Audio source and sound	Intel® High Definition Audio	
		Communication LAN	1000BASE-T/100BASE-TX/10BASE-T, Remote Power On (Wake on LAN) functions supported	
		HDD	Approx. 500 GB, Serial ATA/600, 7200 rpm, SMART functions supported	

		Optical drive	DVD super multi drive/DVD-ROM drive	
	I	Keyboard & mouse	English PS/2 104 keyboard & USB optical sensor mouse PS/2 109 keyboard & USB optical sensor mouse	
	USB		USB 3.0 $ imes$ 2 (on rear), USB 2.0 $ imes$ 4 (2 ports on front, 2 ports on rear)	
		Serial	RS-232C D-sub 9 pin $ imes$ 1, up to 115.2 kbps	
		Parallel	-	
	Interfaces	Display	DVI-D 24 pin $ imes$ 1 (HDCP compatible), mini-D-sub 15 pin $ imes$ 1	
	IIICHACES	PS/2	Mini DIN 6 pin $ imes$ 2	
		Communication	RJ45 LAN connector $\times 1$	
		Sound	Microphone input: stereo mini jack \times 1, headphone/line output: stereo mini jack \times 1, Line input: Stereo mini jack \times 1	
	Dava	Bays	1 slot (taken by HDD) [0]	
	Bays	5" bay [empty]	1 slot (taken by optical drive) [0]	
	Emeral and the	PCI slot [empty]	1 slot (Low Profile) [1]	
	Expansion slots	PCI Express $ imes$ 1 slot [empty]	1 slot (Low Profile) [1]	
		Power supply	100 to 240 VAC \pm 10%, 50/60 Hz (only sinusoidal waveform is supported as input waveform)	
	Maxim	num power consumption	Approx. 134 W	
	Max	kimum apparent power	Approx. 137 VA	
	Dir	nensions (body only)	98 (W) \times 385 (D) \times 343 (H) mm (excluding stabilizer), 220 (W) \times 385 (D) \times 343 (H) mm (including stabilizer)	
	\	Weight (body only)	Approx. 8.2 kg	
	Temperat	ure and humidity conditions	10 to 35°C, 20 to 80% (non-condensing)	
	OS for w	hich drivers are supported	Windows® 7 Professional / Ultimate 32-bit (SP1)	
		Main accessories	stabilizer, reinstallation media, etc.	
PC Terminals			US110c or Higher Capacity	The rate for
– Thin Client System				this should quoted
[Complete	Key features Secure and affordable te		erminal featuring dual monitor capability	including th
System]	Processor	VIA Eden 1GHz		cost of the
	Memory	128MB Flash/512MB R	AM DDR2	required

Natwork Interface	1000/100/10-Base-T IEEE802.11 b/g/n		components
INELWOIK IIILEITÄCE	(for wireless LAN model*)		{Server,
Graphics	Max. 1600 x 1200 Dual display available		Storage,
External Dimensions(W x D			RAM,
	1// x 121 x 34 mm (excluding the stand)		Keyboard, Mouse, and
Weight	670g		Mounting
Power Consumption	Max. 14W		Frame with
	Windows CE 6.0		installation
			and
			technology
00	windows Ar Si S in each terminal, must support i miter (Laser and Dot Mathx), Stamler		transfer}, No additional
			cost will be
	3 Years of Wa	rantv	added.
			The proposed
			server must
			be featured
			with RAID 1 so that it can
			be upgraded
			according to
			the
			requirement.
			These
			terminals will
			be installed for the
			administrative
			purposes like
			teller counter,
			finance, RTE,
			reception,
			etc, and in the
			eLibrary VM Ware
			Installed
	Graphics External Dimensions(W x D x H) Weight Power Consumption Terminal Embedded OS Other	GraphicsMax. 1600 x 1200 Dual display availableExternal Dimensions(W x D x H)177 x 121 x 34 mm (excluding the stand)Weight670gPower ConsumptionMax. 14WTerminal Embedded 0SWindows CE 6.0OtherSupported protocol RDP6.0 ICA10.17OSWindows XP SP3 in each terminal, must support Printer (Laser and Dot Matrix), Scanner	Network interface(for wireless LAN model*)GraphicsMax. 1600 x 1200 Dual display availableExternal Dimensions(W x D x H)177 x 121 x 34 mm (excluding the stand)Weight670gPower ConsumptionMax. 14WTerminal Embedded OSWindows CE 6.0OtherSupported protocol RDP6.0 ICA10.17

3	Academic	Form factor / height	2U Rack	IBM / NEC /
	Server	Number of processors	1 to 2 (2)	DELL / Equivalent
		Processor	Intel® Xeon® Processor E5-2430 (2.20 GHz/6-core/15 MB)	Lyuivaichi
		Memory type	DDR3-1333 ECC LV UDIMM DDR3-1600 ECC LV RDIMM	3 Years of
		Memory slots	12	Warranty
		Maximum memory	384 GB (32 GB Required)	
		Storage type	Hot plug 2.5-inch SAS HDD Hot plug 2.5-inch SAS SSD	
		Maximum internal drive bays	24 to 26 2.5-inch with optional drive cage 12 3.5-inch plus 2 2.5-inch with optional 2.5-inch drive cage	
		Maximum internal storage	50.4 TB (8 TB Required in RAID 1)	
		Removable media bays	-	
		Expansion slots	1 PCIe x8 Gen 3 2 PCIe x4 Gen 3 1 PCIe x4 Gen 2 1 PCIe x1 Gen 2 1 PCIe x8 Gen 3 for a RAID	
		Network interface	4 1000BASE-T plus 1 100BASE-TX for management	
		Redundant power supply	Optional, hot plug	
		Redundant cooling	Optional, hot plug	
		Power supplies	800 Watt	
		Server management	EXPRESSSCOPE Engine 3	
		Interface	2 VGA, 1 to 2 serial, 6 USB 2.0 (plus 3 internal USB 2.0), 4 LAN, 1 management LAN	
		Dimensions (W $ imes$ D $ imes$ H) and maximum weight	448.4 x 696.3 x 87.4 mm / 17.6 x 27.4 x 3.4 in 33 kg / 72.75 lbs.	
		Temperature and humidity condition (non-condensing)	Operating: 10 to 40°C / 50 to 104°F ¹ , 20 to 80% Non-operating: -10 to 55°C / 14 to 131°F, 20 to 80%	
		Operating systems and virtualization software	Microsoft® Windows Server® 2008 Enterprise (x64)	
4	Application	Form factor / height	1U Rack	IBM / DELL /
	Server	Number of processors	2	NEC / equivalent
		Processor	Intel® Xeon® Processor E5-2690 (2.90 GHz/8-core/20 MB)	Equivalent

		Memory type	DDR3-1333 ECC LV UDIMM DDR3-1600 ECC LV RDIMM DDR3-1333 ECC LV LRDIMM	3 Years of Warranty
		Memory slots	24	
		Maximum memory	(16GB) Up to 768 GB	
		Storage type	Hot plug 2.5-inch SAS SSD	
		Maximum internal drive bays	6 to 8 with optional drive cage	
		Maximum internal storage	9.6 TB – 2 TB required in RAID 1	
		Removable media bays	1 bay for optical disk drive	
		Expansion slots	1 PCle x16 Gen 3 1 PCle x8 Gen 3 1 PCle x8 Gen 3 for a RAID controller 1 PCle x8 Gen 3 for a dedicated network controller	
		Network interface	2 1000BASE-T plus 1 100BASE-TX for management	
		Redundant power supply	Optional, hot plug	
		Redundant cooling	Standard , non-hot plug	
		Power supplies	450 Watt, 800 Watt	
		Server management	EXPRESSSCOPE Engine 3	
		Interface	2 VGA, 1 to 2 serial, 6 USB 2.0 (plus 3 internal USB 2.0), 2 LAN, 1 management LAN	
		Dimensions (W x D x H) and maximum weight	440.0 x 720.0 x 43.4 mm / 17.3 x 28.3 x 1.7 in 23 kg / 50.70 lbs.	
		Temperature and humidity condition (non-condensing)	Operating: 10 to 40°C / 50 to 104°F ¹ , 20 to 80% Non-operating: -10 to 55°C / 14 to 131°F, 20 to 80%	
		Operating systems and virtualization software	Microsoft® Windows Server® 2003 R2, Enterprise x64 Edition	
5	Laptop – Type	Intel® Core™ i5		Easy Portable
	L ₁	\geq 3317U processor (1.7GHz/2.6GHz w/ Turbo Boost)		
		\geq 4GB DDR3 memory \geq 128GB solid state drive		
		13.3" HD widescreen CineCrystal ™ LED		
		backlit display (1366 x 768)		
		Intel® HD Graphics 4000		
		Mobile Intel® HM77 Express		
		webcam		

					r – – – – – – – – – – – – – – – – – – –			
		multi-gesture						
		Wi-Fi - Blueto	oth® 4.0					
		HDMI®						
		USB 3. 0						
		Intel® Certifie	ed Thunderbolt™					
		card reader						
		3-cell battery	ell battery					
		Genuine Wind	OWS					
6	Laptop – Type	\geq 3rd Generation	tion Intel® Core™ i3	3-3227U processor (1.9GHz),				
	L ₂	\geq 4GB DDR3	memory,					
		≥128GB soli	d state drive,					
		13.3" HD wide	escreen CineCrystal™	4 LED				
		backlit display	r (1366 x 768)					
		Intel® HD Gra	phics 4000					
		Mobile Intel®	HM77 Express - ste	reo speakers				
		Webcam						
		Multi-gesture	Aulti-gesture touchpad					
		Wi-Fi	·					
		Bluetooth® 4.	.0					
		HDMI®						
		USB 3.0 - card	d reader					
		\geq 6.5-hour ba	ttery					
		Windows Genu	uine					
7	Laser Printer	Printing Speed	t	Minimum 12ppm (A4)				
			Enhanced	True 600 x 600 dpi resolution				
	Possible	Resolution	Smoothing					
	BRANDS:		Technology	(2400 x 600dpi equivalent with AIR Technology)				
		Printer Langua	ide	Canon Advanced Printing Technology (CAPT)				
	HP /	· · · · · · · · · · · · · · · · · · ·	-9-	Uses PC memory (Standard 2MB on board), No additional memory required in this				
	Canon /	Memory		technology.				
	EPSON /	Warm-up Time	۵	0 sec. On standby mode (Less than 10secs after power up)				
	BROTHER	First Printout Time 9.3 seconds or less						
	3	Paper Size Cassette A4, B5, A5, LGL, LTR, Executive, Envelope C5/COM10/DL, Monarch,						
	Years of	1 4001 0120	Manual Tray	Custom Paper(width76.2-215.9mm,length127.0-355.6mm)				
	Warranty	Paper Input	Cassette	150 sheets				
	vvarranty	ι αμεί πιμαί	υαδοσιίσ	100 2116612				

		(Standard) Manual Tray	10 sheets		
		Paper Output	Face down: 100 sheets		
		Dimensions (W x D x H)	370 x 251 x 217 mm		
		Weight	Approx. 5.7kg excluding cartridge		
		Operating Systems Supported	Windows 98/Me/2000/XP, Linux(CUPS)		
		Interface	USB2.0 Hi-Speed		
		Interface	LASER SHOT LBP2900, Cartridge 303, User Software CD-ROM, Getting		
		Included as Standard	Started Guide, Power Cord		
8	3 in one with	Туре	Desktop (Reader Combined + Inner Output)	Canon /	
	combination	Imaging System	Laser Dry Electrostatic Transfer System	Brother /	
	of Printer,	Memory	Standard: 256MB, Maximum: 512MB	Equivalent	
	Photocopy,	Network Interface	Ethernet (100Base-TX/10Base-T), USB 2.0		
	Scanner & FAX	Warm Up Time	30 seconds maximum after powering ON	3 Years of	
			1 seconds maximum from the Sleep mode	Warranty	
		First Copy Output Time	6.4 seconds or less		
		Multiple Copies	1 to 999 sheets		
		Magnification	25% to 400% (1% increment)		
		Maximum Original Size	Max. A3/11"x17"		
		Duplex	Standard		
		Copy/Print Speed Resolution	20 ppm		
		Resolution	Reading: 600 x 600 dpi Writing: 1200 x 1200 dpi		
		Paper Sources	Standard: 250 sheets paper capacity		
		(A4, 80gsm)	Maximum: $250 + 3 \times 550$ sheets paper capacity Standard:100		
		(At, OUGSIII)	sheets Stack Bypass capacity		
		Acceptable Paper Weights	Paper Cassette: 64 to 90gsm, Stack Bypass: 64 to 128gsm		
		(W x D x H)	565 mm x 680 mm x 681 mm (with the platen cover)		
			565 mm x 693 mm x 771 mm (with the feeder)		
		Weight	Approx. 50.5 kg		
		Power Source	220 - 240 V AC, 50/60 Hz		
		Maximum Power Consumption	Approx. 1.542kW		
		Toner Yield	Approx. 14,600 sheets (A4)		
		(6% Coverage)			
		Drum Yield	Approx. 132,000 sheets (A4)		

		Network OS Network Scan Gear Specification Supported OS	Standard: UFR II LT Optional: PCL 5e/6, PS3 Windows 2000/XP/Server2003/Vista/Server2008/Win7, Mac OSX (10.4.9 or later) Windows 2000/XP/Serve 2003/Vista/Server 2008/Win7 BW: Up to 600 x 600 dpi	
9	Fax 3 Years of Warranty	Automatic Document Feeder Effective Scanning Width Scanning Speed Fax Resolution Image Processing System Halftone FAX PRINTING FEATURES Printing Method Print Speed Print Resolution Paper Capacity Print Cartridge Yield Toner/Ink Saver Mode Auto Image Reduction On Reception TRANSMISSION/RECEPTION FEATURES Transmission Speed Compression Method Memory Transmission/Reception Quick Memory Transmission Fax Memory	30 sheets (80 g/m2 paper) A4 208mm Approx. 3.5 sec. per minute Standard, Fine, Superfine, Photo UHQ (Ultra High Quality) 256 shades of grey Mono Laser Beam Printing 12 pages per minute 600 x 600 dpi 150 sheets Auto Sheet Feeder FX-10 All-in-One cartridge Approx. 2,000 pages based on 5% coverage (Approx. 3,000 pages with Toner Save On) YES YES 3 seconds per page with 33.6kbps (based on ITU-T Standard Chart No. 1) MH, MR, MMR YES YES YES	Canon / Brother / Epson / Equivalent

		(based on ITU-T Standard Chart No. 1), Memory Reception: 340 pages (based on ITU T Standard Obst No. 1)	
	Marana Danlara	(based on ITU-T Standard Chart No. 1)	
	Memory Backup	NO	
	Optional Memory	NO	
	SECURITY AND MANAGEMENT FEATURES		
		YES	
		YES	
	TELEPHONE FEATURES		
		YES (Max. 50 locations)	
	-	YES (Max. 131 locations)	
	5	YES	
F	Reception	YES	
[[[Dept. ID Management	YES	
5	System Administrator ID	YES	
F	Reports	Activity Report, TX Report, RX Report, Lost Report, Memory Data/1 touch/Coded & Group Dial/Status List, Memory Image Print	
(One-touch Dials	15 (max. 50 locations)	
	Coded Dials	100 locations	
F	Redial	YES (Automatic and Manual)	
E	Built-in Answering Machine	NO	
F	Fax/Tel. Auto Switch	YES	
A	Answering Machine Hook-up	YES	
F	Remote reception	YES	
ר	Telephone Handset	Option	
	Other Features		
	COPY FEATURE		
	Copy Speed (Mono)	12 pages per minute	
	Multiple Copy	Up to 99 copies	
		YES (Zoom 50% 200%)	

		PC RELATED FEATURES		
		PC Interface	USB 2.0 Hi-Speed	
		Printer Function	YES (UFRII-LT)	
		Supported OS	Windows 2000/XP/Vista/ Mac OS X Version 10.2.x, 10.3.x, 10.4.x, 10.5.x (Available via web distribution only)	
		Print Speed	14 pages per minute	
		Print Resolution	600 x 600 dpi (1,200 x 600dpi enhanced)	
		NETWORK FEATURES		
		Network Connectivity	1650 Print server	
		Functionality		
		Туре		
		Network protocols		
		GENERAL FEATURES		
		Dimensions Without Trays (W x D x H)	400 x 386 x 221mm	
		Weight	Approx. 8kg	
		Power Consumption	Max.: Approx. 700W,	
			Standby: Approx. 8W	
			Sleep: Approx. 3W	
10	Copier	Type Imaging System Memory Network Interface	Desktop (Reader Combined + Inner Output) Laser Dry Electrostatic Transfer System Standard: 256MB, Maximum: 512MB Ethernet (100Base-TX/10Base-T), USB 2.0	Canon / Brother / equivalent
		Warm Up Time	30 seconds maximum after powering ON 1 seconds maximum from the Sleep mode	
		First Copy Output Time	6.4 seconds or less	
		Multiple Copies	1 to 999 sheets	
		Magnification	25% to 400% (1% increment)	
		Maximum Original Size	Max. A3/11"x17"	
		Duplex Copy/Print Speed	Standard 20 ppm	
		Resolution	Reading: 600 x 600 dpi	
			Writing: 1200 x 1200 dpi	

		Paper Sources (A4, 80gsm)	Standard: 250 sheets paper capacity Maximum: 250 + 3 x 550 sheets paper capacity Standard:100 sheets Stack Bypass capacity	
		Acceptable Paper Weights (W x D x H)	Paper Cassette: 64 to 90gsm, Stack Bypass: 64 to 128gsm 565 mm x 680 mm x 681 mm (with the platen cover) 565 mm x 693 mm x 771 mm (with the feeder)	
		Weight	Approx. 50.5 kg	
		Power Source	220 - 240 V AC, 50/60 Hz	
		Maximum Power Consumption	Approx. 1.542kW	
		Toner Yield	Approx. 14,600 sheets (A4)	
		(6% Coverage)		
		Drum Yield	Approx. 132,000 sheets (A4)	
		Print Specification PDL	Standard: UFR II LT	
		I DE	Optional: PCL 5e/6, PS3	
		Network OS	Windows 2000/XP/Server2003/Vista/Server2008/Win7,	
			Mac OSX (10.4.9 or later)	
		Network ScanGear Specification		
		Supported OS	Windows 2000/XP/Serve 2003/Vista/Server 2008/Win7	
		Resolution	BW: Up to 600 x 600 dpi	
11	Scanner	Scanner Type	Flatbed	
11	Scallinei	Scanner Element	CIS (Colour Contact Image Sensor)	
		Light Source	3-colour (RGB) LED	
	3 Years of	Optical Resolution	2400 x 4800 dpi	
	Warranty	Selectable Resolution	25 - 19200 dpi	
		Scanning Bit Depth	Colour:48-bit input (16-bit for each colour)	
			48-bit or 24-bit output (16-bit or 8-bit for each colour)	
			Grayscale: 16-bit input 8-bit output	
		Preview Speed	Approx. 14 sec (Colour A4 300 dpi)	
		Scan Speed Scanning Speed (Reflective)	Approx. 24 sec (Colour A4 300 dpi)	
		Scanning Speed (nenective)	Colour : 16.9 msec/line (2400 dpi), 8.7 msec/line (1200 dpi) 4.6 msec/line (600 dpi),5.5 msec/line (300 dpi)	
			Grayscale, B&W : 5.6 msec/line (2400 dpi), 2.9 msec/line (1200 dpi)	
			1.8 msec/line (600 dpi),3.7 msec/line (300 dpi)	
		Max. Document Size	A4, LTR: 216 x 297 mm (8.5 x 11.7 in.)	

		Scanner Driver Scanner Buttons (EZ Button Other Features Interface Operating Range Power Supply Power Consumption Environment (Plan) Dimensions (W X D X H) Weight	TWAIN / WIA (Windows XP / Windows Vista)s)4 buttons (COPY, SCAN, PDF, E-MAIL)Advanced Z-Lid (up to 20 mm)USB 2.0 Hi-SpeedTemperature : 5°C to 35°C (41°F to 95°F)Humidity : 10% to 90% RH without condensation formationSupplied via USB portApprox. 2.5 W max. (In operation),Approx. 11 mW(Switch-off, USB bus power model; Suspend)Regulation : RoHS(EU), WEEE(EU),Eco-Label : Energy Star250 x 370 x 40 mmApprox. 1.6 kg	
12	Projector -	LCD Panel	0.63" (1.6cm) P-Si TFT x 3	3 Years of
	Long Range – for large	Resolution	XGA (1024x768)	Warranty
	number of students	White light output (brightness)	3200 ANSI Lumens (Normal Mode) 2100 ANSI Lumens (Eco Mode)	EPSON / Canon /
		Colour light output (colour bright	ness) 3200 ANSI Lumens (Normal Mode) 2100 ANSI Lumens (Eco Mode)	Hitachi / NEĆ
		Contrast ratio	2000:1	
		Lens	Manual focus, manual zoom x 1.2	
		Lamp wattage	215W UHP	
		Lamp life	5000 hours (Normal Mode) 6000 hours (Eco Mode)*	
		Diagonal display size	30~300" (76~762cm)	
		Number of Colours	8 Bits / colour, 16.7M colours	
		Keystone Correction	6:1 upward shift, fixed	
		Focus distance	0.8m~9.0m (Wide), 1.0~10.8m (Tele)	
		Distance to width ratio (:1)	1.5 (Wide), 1.8 (Tele)	
		Computer Compatibility	IBM Compatible VGA, SVGA, XGA, WXGA, WXGA+, SXGA, SXGA+, UXGA (compressed), MAC 16"	
		Composite/S-Video	NTSC, PAL, SECAM, PAL-M, PAL-N, NTSC4.43	
		Component Video	525i(480i), 525p(480p), 625i(576i), 1125i(1080i@50/60), 1125p(1080p@50/60), 750p(720p@50/60)	
		HDMI Video	Signal: 525i(480i), 525p(480p), 625i(576i), 1125i(1080i@50/60), 750p(720p@50/60), 1125p(1080p@50/60)	

		Plug & Play DDC2B			
		Digital input 1 x HDMI (HDCP compatible)			
			with analogue component video input) with analogue component video input and Monitor Out)		
		Monitor output 1 x 15-pin Mini D-sub (shared	with analogue computer In 2 and analogue component video input)		
		Video input 1 x 15-pin Mini D-sub (shared 1 x RCA for composite	with analogue computer In 1 and analogue computer In 2)		
		Audio input 1 x pair RCA (L/R)			
		Audio output 1 x pair RCA (L/R)			
		Control 1 x 9-pin for RS-232C control			
		Dimensions (W x H x D) $320 \times 85 \times 245$ mm (excluding feet and extrusions)		
		Weight 2.9Kg			
)/37dB (Bright Mode)		
		Air filter Urethane (Up to 200	Remote control with batteries (HL02881), Computer cable, Power cord, User manual (detail & concise)		
		lamp DT01433			
13	Projector -	Liquid Crystal Panel Structure	: 0.63" polysilicon active-matrix TFT x 3		ars of
	Mid Range With	Number of Pixels	: 786,432 pixels	Wa	rranty
	TechMount	Resolution - Video	: 540 TV lines		
	TM-Tele Adjustable	Resolution - RGB	: 1024 Dots X 768 Lines		ands: SON /
	Drop	Colors	: 16.7 million colors	Ca	non /
		Aspect Ratio	: Native 4:3/16:9 compatible	Hitachi ,	/ NEC
		Lens	: manual zoom x 1.2		
		Throw Ratio (distance : width)	: 1.5 - 1.8 : 1		
		Lamp	: 210W UHB		
		Brightness	: 2,700 ANSI Lumens		
		Expected lamp Life	: Approximately 3,000 hours (normal) 6,000 hours (Eco mode)		
		Contrast Ratio	: 2000 : 1 using Active Iris		
		Speaker Output	: 16W (2 x 8W speakers)		

Power Supply	: AC100 - 120V / AC220 - 240V 50/60 Hz Power
Power Consumption	: 330W
Operating Temperature	: 5°C - 35°C (41°F - 95°F)
Input Signals	: RGB : VGA, SVGA, XGA,SXGA, SXGA+, UXGA, MAC 13", MAC 16" Composite Video: NTSC, NTSC4.43, PAL, SECAM, PAL-M, PAL-N Component Video: 480i, 576i, 480p, 720p, 1080i, 1080p
Acoustic Noise Level	: 35 dB (29 dB in Eco Mode)
H-Sync	: 15 Hz - 106 Hz
V-Sync	: 50 kHz - 120 kHz
Vertical Keystone	: + / - 30°
Approvals	: UL, C-UL, FCC, CE, RoHS
RGB Input	: Analog RGB 15pin Mini-Dsub x 2
RGB Output	: 15pin Mini-Dsub x 1
Video Input	: S-Video Mini DIN 4-pin connector x 1 Composite Video RCA jack x 1 Component Video RCA jack x 3
Audio	: Input 3.5 Stereo Mini jack Output RCA(L/R) x 1 pair
Control Terminals	: 9-pin D-sub connector x 1 (RS-232 control)
Other	: USB connector (USB mouse) x 1
Dimensions (W x D x H)	: 12.5" x 3.9" x 11.3"
Weight	: 8.2 lbs.
Closed Caption	: CC1, CC2, CC3, CC4. T1, T2, T3, T4
Additional Features	: Kensington Slot, Digital Gamma Correction, Whiteboard / Blackboard More, Input Source Naming,, MyMemory /MyScreen / MyButtons / MyText, Auto V Keystone, Serial Number on Side
Supplied Accessories	: Remote Control, Batteries (AA), RGB cable, US Power Cord, Multiple language operator / Safety Manual
Lamp	: CPX2010LAMP (DT01021)
Remote Control	: HL02483
Filter	: MU06481

		Lamp Life	2,500 to 3,000 hrs (4,500 hrs in Eco Mode)	
14	Projector Screen		List and provide according to your own choice / Propose the system with your own ease	
15	Attendance Devices	Fingerprint Capacity	3000 templates Minimum	
		Transaction Capacity	100,000	
		Sensor	Optical Sensor	
		Communications	s RS232/485, TCP/IP,USB-host	
		Standard Functions	Workcode, SMS, DLST, Scheduled- bell, Self-Service Query, Automatic Status Switch	
		Optional Functions	ID/Mifare/HID,Webserver,printer,9 digit user ID	
		Display	3 inches TFT Screen	
		Power Supply	5V DC 2A	
		Operating Temperature	0-45	
		Operating Humidity	20%-80%	
		Dimension	196.5X138.5X59 mm	
		Net Weight	1.05 kg	
		Input	Fingers and RFID Card (Both)	
16	Audio System	Specification	n, Propose your own system that should be audible to the students after the arrangement of all the equipments and the furniture and fixture	Quote the warranty period
17	Barcode	General	Scanner Type Omnidirectional	1 Years of
	Reader		Sensor Wide-VGA CMOS Digital Imaging	Warranty and
			Light source LEDs	3 Years of Service
			Nominal working distance Depth of Field	Warranty

		CODE 39	
		5mil: 1.6" - 7.5" (4 - 19 cm)	
		10mil: 0.4" - 11.8" (1.0 - 30 cm)	
		20mil: up to 17.7" (45 cm)	
		EAN/UPC	
		13mil: 0.6" - 15.7" (1.5 - 40 cm)	
		7.5mil: 0.5" - 10.6" (2.0 - 27cm)	
		PDF-417 6.6mil: 11.0" - 5.9" (2.5 - 15cm)	
		10mil: 0.2" – 8.6" (0.5 – 22cm)	
		15mil: 0.6" - 13.4" (1.5 - 34cm)	
		DataMatrix	
		10mil: 0.8" - 6.3" (2.0 - 16cm)	
		15mil: 0 - 9.3" (0 - 23.6cm)	
		QR Code	
		10mil: 1.2" - 4.9" (3 - 12.5cm)	
	5 · · · · ·	15mil: 0 - 7.5" (1 - 19.0cm)	
	Print contrast	25% minimum reflectance	
	Roll (tilt)	± 180°	
	Pitch	\pm 40°	
	Skew	\pm 40°	
	1D/2D Decode Symbologies	Factory Default Barcodes	
		CODE 128	
		CODE 39	
		CODE 93	
		Data Matrix	
		EAN-13	
		EAN-8	
		GS1 Data Bar Expanded	
		GS1 Databar Omnidirectional	
		PDF417	
		QR Codes	
		UPC-A	

	Mechanical	Dimensions (LxWxH)	4.9 x 2.8 x 7.1 (100 x 71 x 181 mm)	
		Weight	Approximately 8.0 ounces (226.7g); Scanner 6.9 ounces (195.6g) + Cable 1.0 ounce (28.3g)	
		Cable Length	6.5 ft (1.9 m)	
		Color	HP Black	
	Interface/Connection	Cable	USB 2.0	
	Power (voltage & current)	Input Current at $5V = 350$ Idle Current at $5V = 65$ m		
	Drivers	Windows UBB HID-KB and	d OPOS & JPOS (via USB-COM mode drivers)	
	Operating Systems (Compatible with)	Genuine Windows Vista® Genuine Windows XP Pro Genuine Windows Embed Genuine Windows Embed Genuine Windows 7 Busir Genuine Windows 7 Busir	fessional ded for Point of Service (WEPOS) ded POSReady 2009 ness 32	
	Agency Certifications	C-Tick, KCC, BSMI, VCCI	, CSA, CE, FCC	
18 Video Conferenci Devices	 Transforms a flat Intuitive connect Provides up to 1 Sleek, compact Application Features Multimedia and Basic API availal Dual-display opt High-definition of 	design presentations can be shared a ole over IP (Telnet or Secure S	onnecting a DVD player ole with standards-based video without loss of features at the touch of a button Shell Protocol [SSH])	3 Years of Warranty and 5 Years of Service Warranty

	- Optimal definition up to 1000p50
	Optimal definition up to 1080p60
	 H.323/SIP calls up to 6 Mbps Built-in individually transcoded multipoint conferencing offers ability to add three additional participants
	 Built-in individually transcoded multipoint contenencing oners ability to add three additional participants Easy provisioning and self-configuration with Cisco Unified Communications Manager (CUCM), Cisco TelePresence Video Communications
	• Lasy provisioning and sen-comparation with cisco onmed communications manager (cocini), cisco referresence video communications Server (VCS), or Cisco WebEx TelePresence
	 Takes advantage of the Cisco TelePresence Total Solution approach, including Cisco TelePresence Multiway features, recording and streaming
	and firewall traversal services
	 Cisco Unified Communications Manager native support (requires Cisco Unified Communications Manager Version 8.6 or higher)
	Product Specification
	Default components in
	SX20 Quickset:
	 SX20 Codec, Cisco TelePresence PrecisionHD Camera – (option of 1080p2.5, 1080p4xS2 or - 1080p12x) Cisco
	TelePresence Table Microphone 20, remote control, cables, and power supply
	Optional components
	• Cisco TelePresence Touch 8
	● Wall mount kit
	 Additional microphone
	Bandwidth
	 H.323 and SIP up to 6 Mbps
	Minimum bandwidth for resolution/frame rate
	• 720p30 from 768 kbps
	• 720p60 from 1152 kbps
	 1080p30 from 1472 kbps
	 1080p60 from 2560 kbps
	Firewall Traversal
	Cisco TelePresence Expressway Technology
	H.460.18, H.460.19 firewall traversal
	Video Standards
	• H.263, H.263+, H.264
	Video Features • Native 16:9 widescreen
	 Advanced screen layouts Intelligent video management
	 Interrigent video management Local auto-layout
	Video Inputs (Two Inputs) One HDMI and One DVI-I (Analog and Digital): Supported Formats:
	Extended Display Identification Data (EDID)
	Video Outputs (Two Outputs)
	Two HDMI Outputs Supported Formats:
L	

VESA Monitor Power Management EDID	
Live Video Resolutions (Encode and Decode):	
Audio Standards ● G.711, G.722, G.722.1, 64 kbps AAC-LD	
Audio Features	
 CD-quality 20 KHz mono 	
 Two acoustic echo cancellers 	
 Automatic Gain Control (AGC) 	
 Automatic noise reduction 	
 Active lip synchronization 	
Audio Inputs (Four Inputs)	
 Two microphones, 4-pin minijack 	
 One minijack for line-in (stereo) 	
 One audio in from camera (HDMI) 	
Audio Outputs (Two Outputs)	
• One minijack for line out (stereo)	
• One HDMI, (digital main audio)	
Dual Stream	
• H.239 (H.323) dual stream	
BFCP (SIP) dual stream	
Support resolutions up to 1080p (1920 x 1080)	
MultiPoint Support	
Four-way embedded SIP/H.323 MultiPoint reference MultiSite Giago Tale Presence Multiway support (requires Ciago Tale Presence Video Communication Server [Ciago VCC]	
 Cisco TelePresence Multiway support (requires Cisco TelePresence Video Communication Server [Cisco VCS] and Cisco TelePresence MCU) 	
 Ability to natively join multipoint conferences hosted on Cisco Telepresence Multipoint Switch (CTMS) 	
MultiSite Features (Embedded Multipoint Switch)	
 Adaptive SIP/H.323 MultiSite; resolution up to 576p30 3-way resolution up to 720p30 4-way resolution up to 576p30 	
 Full individual audio and video transcoding 	
 Individual layouts in multisite continuous presence 	
 H.323/SIP/VoIP in the same conference 	
 Support for Presentation (H.239/BFCP) from any participant at resolutions up to 1080p15/SXGA 	
 Best Impression (automatic continuous presence layouts) 	
 H.264, encryption and dual stream from any site 	
 IP Downspeeding 	
• Dial in and dial out	
Conference rates up to 6 Mbps	
Protocols	

• H.323
• SIP
Embedded Encryption
• H.323 and SIP point-to-point
Standards-based: H.235 v3 and Advanced Encryption Standard (AES)
Automatic key generation and exchange
Supported in dual stream
IP Network Features
DNS lookup for service configuration
• Differentiated services (quality of service [QoS])
• IP-adaptive bandwidth management (including flow control)
• Automatic gatekeeper discovery
• Dynamic playout and lip-sync buffering
• H.245 Dual Tone Multifrequency (DTMF) tones in H.323
 Date and time support using Network Time Protocol (NTP)
Packet loss-based downspeeding
• Uniform resource identifier (URI) dialing
• TCP/IP
• DHCP
 802.1x network authentication
• 802.1Q Virtual LAN
 802.1p (QoS and class of service [QoS])
Security Features
 Management using HTTPS and SSH
• IP administration password
 Menu administration password
• Disable IP services
Network settings protection
Network Interfaces
• One LAN and Ethernet (RJ-45) 10/100/1000 Mbit
Other Interfaces
• Two USB ports for future usage
System management
Support for the Cisco TelePresence Management Suite
Total management using embedded SNMP, Telnet, SSH, XML, SOAP
Remote software upload: using web server, secure copy (SCP), HTTP, HTTPS Signs Tale Presence Tauch (aptianal)
Cisco TelePresence Touch (optional)
 Remote control and on-screen menu system

	rectory supporting LDAP and H.350 (requires Cisco Te directory (through Cisco TelePresence Management Su e d main camera			
Camera Overview	Camera Overview			
	2			
2.5x optical zoom (5x with digital*)	4x optical zoom (8x with digital*)	12x optical zoom		
Motorized +57-25° tilt, +/- 30° pan	Motorized +15%-25°tilt, +/- 90°pan	Motorized +159-25° tilt, +/- 90° pan		
51.5° vertical field of view	43.5° vertical field of view	43.5° vertical field of view		
83° horizontal field of view	70° horizontal field of view	72° horizontal field of view		
F 2.0	F 1.7	F 1.7		
1920 x 1080 pixels progressive @ 60 fps				
Automatic or manual focus, brightness, and	nd white balance			
Far-end camera control				
Dual HDMI/Camera Control and USB out	Dual HDMI/Camera control	HDMI, HD-SDI output, and daisy chain		
Upside-down mounting, picture flips automatically	Upside-down mounting, manual picture flip	Upside-down mounting, picture flips automatically		
Focus distance 0.3 m – infinity				

RFP for NAMI Hardware and Peripherals

19	Wireless	Cisco [®] 521 Wireless Express Access Point	3 years of
	Access Points	IEEE 802.11b and 802.11g	warranty
20	Interactive Board	Provide the technical Specifications with all of the features	3 years of warranty

Section 5. Authorized Certificate – Dealership / Distribution

Section 6. Company Profile

- List of Corporate Clients (Last 5 Years)
- Installation & Deployment Plan
- Terms and Conditions for the Support and Service

Note: The specified quantities may vary according to the need of the organization