

NATIONAL INSTITUTE OF RURAL DEVELOPMENT

(Ministry of Rural Development, Govt. of India)
Rajendranagar, Hyderabad 500 030

**GLOBAL TENDER NOTICE
FOR SUPPLY OF HARDWARE AND SOFTWARE**

Sealed quotations are invited from reputed vendors for supply of PCs, laptops, laser printers, scanners, UPS, routers, switches, Servers, racks, sound system, multimedia projectors, screens, pointer and training boards, LCD TVs and software.

2. For further details regarding tender forms, terms & conditions visit the website www.nird.org.in or www.cirdap.org.sg . The last date for receiving sealed quotations is upto 3.00 pm on 4.11.2011.

ASST.REGISTRAR (T)

No.Stores/2011/38
Dated: 4.10.2011

NATIONAL INSTITUTE OF RURAL DEVELOPMENT
(Ministry of Rural Development, Govt. of India)
Rajendranagar, Hyderabad 500 030

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INSTRUCTIONS TO THE BIDDERS/TENDERERS

1. The tender is to be submitted in two parts i.e. technical and financial bid, separately in two sealed envelopes. The sealed envelopes containing “Technical and financial” tender/bid should be put in another large envelope superscribing “Technical bid financial bid” and addressed to the **Asst. Registrar (T), NIRD, Rajendranagar, Hyderabad – 500 030, India**. The tender should reach by registered post/courier or be deposited in person on or before 3.00 pm on 4.11.2011.
2. **Technical bid:** This tender should contain the technical specifications/details of the offered equipment, documentary evidence as proof for the statements made at Sl.No.1 to 9 of technical bid and the earnest money deposit (EMD) amount. In the absence of these documents, the tender is liable for rejection.
3. **Financial bid:** This tender should indicate rates and other terms and conditions. The rates should invariably be quoted for delivery at F.O.R. destination including the charges for installation and commissioning at consignee’s site. All packing, forwarding, freight and insurance if applicable and other charges e.g., taxes, duties should also be clearly indicated along with financial bid.
4. The successful bidder will be required to furnish a non-interest bearing security deposit in the form of Bank Guarantee/DD from any commercial bank in favour of NIRD, amounting to 10% of the total cost of the equipment.
5. The financial bids of those tenderers / bidders who are technically qualified only be opened in the presence of interested bidders. The date and time of opening of financial bid will be intimated later.
6. DG, NIRD reserves the right to reject any or all the tenders and also to cancel the entire process without assigning any reason whatsoever.
7. Late tenders and tenders prescribing any departure from the conditions set forth above are liable to be rejected.

Due date and time schedule for receipt and opening of tenders:

1. Last date of receipt of both technical and financial bid: Upto 3.00 pm on 4.11.2011.
2. Date of opening of technical bid: 3.30 pm on 4.11.2011
3. Date of opening of those financial bids whose : Will be intimated later after technical bids have been found acceptable completing evaluation of technical bids.

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“COVER-A”

TENDER FOR SUPPLY OF HARDWARE AND SOFTWARE

QUOTATION

To

The Registrar & Director (Admn)
National Institute of Rural Development
Rajendranagar, Hyderabad - 500 030

Sir,

Sub : Quotation for supply and installation of hardware and software - Reg.

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1. Name and address of the bidder:
2. Telephone Nos.:
3. Fax No.:
4. Month and year of establishment:
5. Please indicate whether your firm is a :
Manufacturer/wholesale dealer or retailer
6. Names of three major customers preferably Government
Or Semi Government to whom such hardware/software
supplied in the preceding three years

- (i)
- (ii)
- (iii)

7. Mention VAT Registration details:
8. Annual Turn Over during 2008-09
2009-10
2010-11
9. Please attach copies of annual returns of Sales tax and income tax for the last three years i.e., 2008-09, 2009-10 and 2010-11.

Please enclose documentary evidence as proof for the statements made at sl.no.1 to 9

10. Please attach a copy of the specifications of the hardware proposed to be supplied by you.
11. EMD details : DD No. _____
For : Rs 1,50,000/-
Bank (Branch) _____
Drawn on _____
Date : _____

Date:

SIGNATURE OF THE
BIDDER & STAMP

- Encl : (1) DD No _____ drawn on _____
for Rs 1,50,000/- dated _____ is enclosed
- (2) Supporting documents for the statements made as above
 - (3) Specifications of the hardware/software

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COVER-B

PART – II: FINANCIAL BID

Having examined the documents and requirement of hardware and software as per the specifications indicated in the Annexure, I/We the undersigned, offer to supply the hardware/software as quoted below:

Sl. No.	Description of the equipment	Qty.	Unit rate (Rs)	Total amount (Rs)
I.	HARDWARE			
1.	Desktops	24		
2.	Laptops	4		
3.	Router	1		
4.	L2 Switch	3		
5.	L3 switch	2		
6.	Server	1		
7.	Laser printers	3		
8.	Wall mounted racks	5		
9.	Server Rack	1		
10.	20 KVA UPS	1		
11.	UPS for PCs (1200 VA) with 30 minutes back up	35		
12.	Scanner	1		
II.	SOUND SYSTEM			
1.	Sound system with amplifier & microphone	1		
2.	Multimedia Projector & Screen, pointer and training Board	1		
3.	Digital SLR Camera	1		
4.	Plasma/LCD/TV	1		
III.	APPLICATION SOFTWARE AND UTILITY			
1.	Antivirus (Kaspersky Enterprise Edition Total Space Security, 40 users)	1		
2.	Windows 2008 Server (1-enterprise, 2-standard)	1		
3.	Linux (1-advanced, 2-standard)	1		
4.	MS office 2010 Prof. (35 license)	1		
IV.	JOB WORK			
1.	Web Portal Development & Maintenance	1 job		
2.	Network installation and structured cabling	1 job		

Note: For detailed specifications, kindly see the Annexure.

Signature of the bidder & seal

2. Further, we accept all the terms and conditions of the documents in bid form and this acceptance shall prevail over any other conditions, if any given in our bid.
3. We undertake to supply and install the hardware/software within the stipulated time as indicated in purchase order. The rates quoted will be valid for one year.
4. Rates quoted are inclusive of all custom duties, excise duties, other taxes, packing, forwarding, transportation, insurance and other local costs incidental to delivery and installation of the systems at NIRD, Rajendranagar, Hyderabad – 500 030.

SIGNATURE OF THE
BIDDER & SEAL

Date:
Place:

NATIONAL INSTITUTE OF RURAL DEVELOPMENT
(Ministry of Rural Development, Govt. of India)
Rajendranagar, Hyderabad – 500 030

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SUPPLY AND INSTALLATION OF HARDWARE AND SOFTWARE

GENERAL TERMS AND CONDITIONS:

1. Two bid system

The tender is to be submitted in two parts i.e. technical and financial tender, separately in two sealed envelopes for each tender. The sealed envelopes containing “technical and financial” tenders should be put in another large envelope superscribing “Technical and financial tender” should be addressed to:

Assistant Registrar (T)
National Institute of Rural Development (NIRD)
Rajendranagar, Hyderabad – 500 030, India.

The tender should reach by registered post /courier or be deposited in person at **Stores Section, NIRD** on or before 3.00 pm on 4.11.2011.

- (a) Technical bid:** This tender should contain the technical specifications/details of the offered equipment, documentary evidence as proof for the statements made at Sl.No.1 to 9 of technical bid and the earnest money deposit (EMD) amount.

The bidder should enclose attested photostat copies of (i) the registration certificate of the firm/agency (ii) Income Tax return/assessment order; and (iii) Sales Tax return/assessment order for the last three years i.e. 2008-09, 2009-10 and 2010-11 along with the quotation. The quotation is liable to be rejected in the absence of these documents.

- (b) Financial bid:** This tender should indicate rates/cot/price and other terms and conditions. The rates should invariably be quoted for delivery at F.O.R. destination including the charges for installation and commissioning at consignee’s site. All packing, forwarding, freight and insurance if applicable and other charges e.g., taxes, duties should also be clearly indicated along with financial bid.

2. Qualifying requirements of tenderers

The tenderer or bidder shall provide satisfactory evidence to show that:-

- (a) The bidder is the authorized dealer/agent of the manufacturer who fulfils.
- (b) The bidder has adequate financial stability and status to meet the obligations under the contract.

- (c) The bidder should have an annual turnover of at least five times of the total value quoted in the tender during the last three years otherwise the tender is liable for rejection. Audited profit & loss account should be enclosed along with the bid.

3. Earnest Money Deposit

Earnest money deposit of Rs. 1,50,000/- (Rs one lakh fifty thousand only) in Indian currency in the form of Demand Draft is to be submitted along with the technical bid i.e. cover "A". The EMD should remain valid throughout the validity period of the offer. No interest will be payable by the Institute on the EMD. The EMD is liable to be forfeited if the tenderer withdraws or amends impairs or derogates from the tender in any respect within the period of validity of his offer. The EMD of the successful tenderer will be returned after the performance guarantee/Bank Guarantee as required is furnished. The EMD of all unsuccessful tenderers will be returned by the Institute. Any tender not accompanied by EMD shall be summarily rejected.

4. Submission of offers

All offers shall be either type-written or written neatly in indelible ink. Any individual (s) signing the tender or other documents connected therewith should specify whether he is signing as:-

- (i) Sole proprietor of the concern or as attorney of the sole proprietor
- (ii) Partner or partners of the firm
- (iii) Director, manager or secretary in case of a limited company

5. Last date for receipt of the tenders

The offers complete in all respects should reach the following address not later than 3.00 pm on 4.11.2011.

Assistant Registrar (T)
National Institute of Rural Development (NIRD)
Rajendranagar
Hyderabad – 500 030, India.

The tenders received shall be opened, in the presence of such of the tenderers or their representatives who may like to be present, at 3.30 pm on 4.11.2011.

6. Performance Guarantee

The successful bidder shall furnish a Performance Guarantee Bond from a commercial bank for an amount equivalent to 10% of the value of the contract. If the contractor fails to furnish the same, it shall be lawful for the Institute:-

- (a) To recover from the contractor the amount of performance guarantee bond by deducting the amount from the pending bills of the contractor under any contract with the Institute or the Government or any person contracting through the Institute or otherwise however, or
- (b) To cancel the contract or any part thereof and to purchase or authorize the purchase of the stores at the risk and cost of the contractor.

On the performance and completion of the contract in all respects the Performance Guarantee Bond will be returned to the contractor without any interest.

The Institute shall be entitled and it shall be lawful on his part to forfeit the amount of the performance guarantee bond in whole or in part in the event of any default, failure or neglect on the part of the contractor in the fulfillment or performance in all respects of the contract under reference or any other contract with the Institute or any part thereof to the satisfaction of the Institute and the Institute shall also be entitled to deduct from the amount of the Performance Guarantee Bond any loss or damage which the Institute may suffer or be put by reason of or due to any act or other default, recoverable by the Institute from the contractor in respect of the contract under reference or any other contract and in either of the events aforesaid to call upon the contractor to maintain the amount of the performance guarantee bond at the original limit by furnishing fresh bank guarantee of additional amount, provided further that the Institute shall be entitled to recover any such claim from any sum then due or which at any time thereafter may become due to the contractor under this or any other contracts with the Institute.

The Performance guarantee bond shall remain in full force and effect during the period that would be taken for satisfactory performance and fulfillment in all respects of the contract i.e. expiry of warranty period.

7. Local Conditions

It will be imperative on each tenderer to fully acquaint himself of all the local conditions and factors which would have any effect on the performance of the contract and cost of the items/stores. In his own interest, the foreign tenderer should familiarize himself with the Income Tax Act 1956, the Customs Act 1962 and related Laws in force in India. The Institute shall not entertain any request for clarification from the tenderer regarding such local conditions. No request for the change of price, or time schedule of delivery of stores shall be entertained after the offer is accepted by the Institute.

8. Spare Parts

The tenderer should quote, apart from main equipment, separately for the mandatory spares as well as for recommended spares required for two years operation. The rates for spares should be FOR destination with complete break up of different costs. The Institute reserves the right to order any or all the spares as quoted in quantity considered reasonable by him at the prices quoted by the tenderer and on the terms and conditions quoted for the main equipment. The responsibility of the tenderer under the warranty clause will not be diluted in any way on this account.

9. Delivery and Installation

The Institute reserves the right to place order one or more firms. The successful bidder(s) should deliver and install the hardware and software at “**Centre on Integrated Rural Development for Asia and the Pacific (CIRDAP), Chameli House, 17 Topkhana Road, Dhaka – 1000, Bangladesh**” in good condition and in accordance with the Purchase Order. In case of any fault in the delivery of the hardware/software the same will be returned back and the supplier should replace it with new one.

10. Penalty for delay in commissioning

The contractor or his agents shall commission the equipment within the stipulated time as shown in the purchase order. This time frame will be applicable from the date of intimation from the consignee in respect of readiness and installation of the equipment in cases where the equipment is to be installed by the consignee.

The time allowed for commissioning of the equipment by the contractor or his agent shall be deemed to be the essence of the contract. In case of delay in commissioning of the equipment on the part of the contractor, the Institute shall be entitled to recover and the contractor shall be liable to pay liquidated damage at the rate of 2% of the total contract value for each and every month or part thereof for which commissioning is delayed. Provided always that the entire amount of liquidated damages to be paid under the provision of this clause shall not exceed 10% of the total contract value. After expiry of a 5 months period from the date of default, i.e. from the date of commissioning provided in the contract, the Institute will be at liberty to invoke the PG bond submitted by the supplier. Continuance of commissioning work after expiry of stipulated time will also not absolve the contractor from the penalty as stated above.

11. Warranty

The contractor shall warrant that everything to be furnished hereunder shall be free from defects and faults in the equipment and shall be of the highest grade and consistent with the established and generally accepted standards for goods of the type ordered and in full conformity, with the contract specifications and samples if any and shall if operatable, operate properly.

This warranty shall survive inspection of, payment for and acceptance of the goods and shall expire after the warranty period from the date of commissioning and proving test of equipment at ultimate destination.

The contractor's liability in respect of any complaints defects and or claims shall be limited to the furnishing and installation of replacement parts free of any charge or defective parts only to the extent that such replacement or repairs are attributable to or arise from faulty material in the manufacture of the stores, provided that the defects are brought to the notice of the contractor within three months of their being first discovered during the guarantee period of three months from the date of expiry of warranty period or at the option

of the Institute to the payment of the value, expenditure and damage as hereafter mentioned.

The contractor shall, if required, replace or repair the goods or such portion thereof as is rejected by the Institute free of cost at the ultimate destination or at the option of the Institute, the contractor shall pay to the Institute value thereof at the contract price or in the absence of such price at price decided by the Institute, and such other expenditure and damages as may arise by reason of the breach of the condition herein specified.

All replacement and repairs that the Institute shall call upon the contractor to deliver or perform under this warranty shall be delivered and performed by the contractor within two weeks, promptly and satisfactorily. The warranty period will be extended by the number of days the equipment remains under breakdown during the warranty period, the warranty period for such part(s) replaced and/or repaired and parts immediately connected there to shall extend the warranty period from the date of such replacement and/or repair.

11. Concessions & Rebates

UN concessions and rebates/tariff etc., are applicable to CIRDAP. Therefore, bidders are advised to provide concessions while quoting the rates.

GIS software may be provided on academic pricing, as NIRD is implementing the project and NIRD is eligible for academic pricing for GIS software.

12. Payment terms

Payment terms are full payment, after receipt, installation and acceptance of hardware/software by the authorized representative of CIRDAP, Dhaka and on submission of the bill along with the list of hardware as per the purchase order. No advance amount will be paid. Statutory taxes as applicable at source will be deducted from the Bill. All payments will be made by crossed cheques.

13. Arbitration

In the event of any question, dispute or difference arising under these conditions or instructions of tenderers' or in connection with this contract (except as to any matters the decision of which is specifically provided for by these conditions or instructions to Tenderers') the same shall be referred to the sole arbitration of Director General, NIRD. The award of the Arbitrator shall be final and binding on the parties to this contract. Subject as aforesaid, the Arbitration Act, 1996 and the rules there under and any statutory modifications thereof for the time being in force shall be deemed to apply to the arbitration proceedings under this clause.

Director General, NIRD reserves the right to reject any or all the quotations received without assigning any reasons whatsoever.

**REGISTRAR &
DIRECTOR (ADMN)**

Technical Specifications for the Hardware/Software for supply and installation at CIRDA, Dhaka, Bangladesh			
	Product Description		Qty
A	Hardware		
1	Desktop	Desktop System – Chassis – Mini Tower, Intel i-7 or better (2.83GHz speed: 12MB-L2 Cache, running at 1666 MHz.FSB) or higher processor, 4GB DDR-3 1666 MHz SDRAM or higher Memory upgrade upto 8GB, 1 TB SATA HARD DISK or Higher, 18.5" LCD color monitor (Same as Brand), with onboard video graphic card or addon graphic card with at least 256 MB RAM whichever is most suitable (DVD+/-RW, Gigabit Ethernet. Min 8 USB 2.0 ports (2 front, 6 rear), PS/2, Serial, Parallel, USB Keyboard & Optical Scroll Mouse with pad) (Same as Brand), Internal Speaker, Preloaded Windows 7 Ultimate, 3 Years comprehensive onsite Warranty	27
2	Laptop	Intel Core i5 650, 3.2 Ghz with 1333 mhz bus speed, or higher, Intel Q57 Chipset or better, 3GB DDR2 800MHz or higher memory expandable upto 8GB, 250GB SAT A or higher, integrated SO card reader bluetooth enabled 3 in 1 or higher, Dual layer DVD Writer, 14.1" Premium WXGA (1280x800) Display, Keyboard with palm rest & touch pad with Scroll, Integrated 56kbps Modem, Gigabit Ethernet, WLAN, Preloaded Windows 7 Professional, 3 Years comprehensive onsite Warranty	4
3	Router	Wire-speed performance for concurrent services such as security and voice, and advanced services to multiple T1/E1/xDSL WAN rates; Enhanced investment protection through increased performance and modularity; Increased density through High-Speed WAN Interface Card Slots (four), Enhanced Network Module Slot should Support for majority of existing AIMS, NMs, WICs, VWICs, and VICs; Two Integrated 10/100 Fast Ethernet ports; Optional Layer 2 switching support with Power over Ethernet (PoE) (as an option), Security, On-board encryption; Support of up to 1500 VPN tunnels with the AIM-EPII-PLUS Module; Antivirus defence support through Network Admission Control (NAC); Intrusion Prevention as well as stateful Cisco IOS Firewall support and many more essential security features, 1Years comprehensive onsite Warranty	1
4	Switch	48 port L2 Switches (Cisco) 1Years comprehensive onsite Warranty	3
5	Switch	48 port L3 Switches (Cisco) 1Years comprehensive onsite	2

		Warranty	
6	Server	Blade Server Enclosure- B, maximum-10U Height minimum 14 Blades Slots per chassis. Each slots supporting Intel . Chassis with Fully populated suitable hot-swap redundant power supplies configured in n+n configuration and capable to supply power to fully populated chassis. Chassis configured with two gigabit ethernet switch having minimum 5 uplink ports & 16 down link ports to access server ethernet ports and one management module for server managibility. Miximum 6 I/O slots for ethernet /fiber switch. Built in Combo drive to share among blade Server & Ext. USB FDD. The Blade enclosure configured with one Blade Server of 1 U/2U size based on Single Intel Xeon Quad Core E5450 (3.0GHz, 12MB L2 cache) processor, M/s based on Intel 5000P, chipset supporting dual Processor, 12GB of FB DDR2-667 memory with ECC expandable to 16GB. Graphic Controller with minimum 16MB graphic memory, 2 x146 GB Hot Swap SAS drives supporting RAID 0/1, Dual , Gigabit Ethernet ports, Minimum two expansion slots for HBA connectivity. 3 Years comprehensive onsite Warranty	1
7	Laser Printer	HP Laserjet 1522nf Printer / Copier / Scan / Fax A4, 23 PPM in A4, 64 MB memory, 600x 600 dpi, 250 sheet multipurpose tray and 50 sheet auto documents fider, Network card with USB interface cable and driver software or Latest.	3
8	Wall Mounted Rack	19 Rack, Wall mount 530 mm depth, 9 U height, Front glass / vented door (lockable) – 1 Nos.	5
9	Server Rack	OEM 42U Rack with following specifications. A. Should be with solid grounding kit to carry heavy static load up to 900kg. B. Cabinet should be Powder coated. C. Rear & Front door should be perforated to allow an efficient airflow into the components installed in the rack. Closed side panel. D. Equipped with modular power distribution unit, occupying Zero rack space. PDU should have minimum 15 No. of Industry standard IEC type redundant power sockets. PDU should be in modules so that standard cable available with equipment can be connected PDU socket. E. Rack should be equipped with minimum Four Blower at top & adequate number of fans at bottom for heat dissipation. Support with Blade Server Required.	1
10	UPS	20 KVA True-onhne UPS With 6 hours backup for Server (One year Warranty on Battery)	1
11	UPS	UPS for PC (1200VA), 30 Minutes Backup	35
12	Scanner	Scanner Digital Flatbed2400 DPI, 64 Bit Color, USB. Document Feed, Scan Up to 3 slides/4 negative , fames at once, Duplicating automatic	1

Specifications for sound system

Sound system with Amplifier & Microphone		
Line Array Speakers	Maximum Power : 45 W Rated Power: 30W (30-15-7.5W) Sound Pressure Level at 30W/1W at 1kHz And 1m: 106dB/91dB (SPL) Effective Frequency Range (-10dB): 190 Hz to 18 KHz Opening Angle (at 1kHz/4kHz, -6dB) Horizontal : 220 deg/ 130 deg Vertical : 70 deg/ 18 deg Rated Input Voltage : 100 V Rated Impedance: 333 Ohms Ambient Temperature-25 deg to +55 deg	
Lavalier Microphones	Ideal size for Conference halls , Auditoriums. Theater, and sound reinforcement Full, clear sound comparable to larger microphones Smooth extended frequency response Controlled low-frequency roll off reduces low-frequency clothing and room noise Low distortion, wide dynamic range Low battery indicator	
Amplifier 240 Watts	Rated Output: 240 Watts Frequency Response: 50 Hz to 18 kHz (+1/-3 db) Distortion (at rated output power 1kHz): <3% Inputs: 4 Balanced inputs/Stereo Line Inputs Impedance: 1 Kilo Ohm balanced Sensitivity: 1.0 mV (mic inputs) SIN: >75 Db Chime: 0/2 (off/on) selected-on DIN input Speech filter response: -3 dB at 315 Hz Phantom Power: Yes (on mic input 1) (Through 5 pole DIN connected only) Multiple outputs: 4 ohm, 8 ohm, 70V, 100V	
Matrix Switcher with 4 Inputs and 8 outputs and Stereo Audio	Product Performance : Ultra wide band performance 350 MHz (-3dB) Audio outputs audio Outputs Presets: Global Gain : Unity Band width : 350 MHZ (-3dB) Number/Signal Type: VGA-UXGA	Amplifier Frequency Response: 100Hz-10kHz =/-3dB Distortions: THD +N=<2%@1kHz, on rated power Signal to Noise Ratio: All volume control CCW - 92 dB, Master max. & all input volume Min - 75dB Mic 1-6: -65dB, Line 1-6 - 75dB

	<p>RGBHV,RGBS, RGsB, RsGsBs</p> <p>Video Output Nominal Level</p> <p>Audio- Frequency: 20 Hz to 20 kHz</p> <p>Impedance: 18 K ohms unbalanced, DC coupled</p> <p>Nominal Level: 10 dBv (316 mV) (default) Maximum level: >+ dBv</p> <p>Power: 100 VAC TO 240 VAC, 50-60 Hz, internal 30 watts</p> <p>Safety Listings & Compliance: UL, CUL, FCC, CE, VCCI, ICES</p>	<p>Output Power: @ 1% THD 120W, @ 1% THD 160W</p> <p>Output Regulation: <2dB, no load to full load</p> <p>Speaker Output: Balanced floating 8 Ohms & 16 Ohms ,70 V (40.830hms) & 100V (83 Ohms)</p> <p>Input sensitivity/Impedance: Mic 1-6 1.5mV (-56.4 dBV) / 5k Ohms Balanced</p> <p>Mic 1-6 300mV (-10.4 dBV) / 10k Ohms Balanced</p> <p>Return 1V (0dBV) / 10k Ohms Unbalanced</p> <p>Power Supply: Ac 230V 50Hz 350VA</p>
Warranty	1 Year Comprehensive onsite Warranty	

Multimedia Projector & Screen, Pointer and Training Board	
Native Aspect Ratio:	04:03
Supported Aspect Ratio:	4:3, 16:9, 5.4, 16*10
Brightnes: (max ANSI lumens)	High Bright: 3500 Lumens, Eco Mode: 2800 Lumens
Contrast Ratio:	2100 : 1 Full On/Full Off
Display Technology:	DLP Technology 0.55" LVDS
Data Compatibility:	VGA (640*480), SVGA (800*600), XGA (1024*768), SXGA (1280*1024), SXGA+ (1400*1050), WXGA (1280*800), WXGA (1440*900), WUXGA (1920*1200)
Video Compatibility:	Full NTSC, PAL, SECAM, 480i, 576i, 480p, 576p, 720p, 1080i
Native Resolution:	XGA
Projector Placement:	Ceiling Projection, Front Projection, Rear Projection
Lamp Life:	High Bright: 3000 Hours, Eco Mode: 4000 Hours
Minimum Image Size:	20.25 ft (6.17m)
Standard Lens Zoom:	1.2:1
Standard Lens Throw Ratio:	1.62 - 1.95 (Distance/Width)
Standarad Lens Image Offset Ratio:	115%
Standard Lens projection Distance:	3.94 - 32.80 ft (1.2 - 1.0 m)
Digital Keystone Correction (Vertical):	-1
USB:	Number of inputs: 1
HDMI:	Number of inputs: 1
VESA (HD 15):	Number of inputs: 2, 15-pin VGA
S-Video:	Number of inputs: 1, 4-pin mini-DIN
Composite (RCA)	Number of Inputs: 1
Standard Definition TV:	Composite RCA, S-Video
Computer:	VGA, USB (Display Link), HDMI, USB (Life Port)
Projector Control:	Projector Keypad, Remote, USB, RS-232
Monitor Output:	Yes
Audio Output:	3.5 mm mini-jack output for computer and video
Projector Warranty:	1 year Projector warranty
Lamp Warranty:	6 months
Power Supply:	240 Volts at 50 - 60 Hz
Menu Languages:	English

* Projection Screen, 96" × 96" (Electrical) with remote control ceiling mount

* Adjustable vertical limit switch to regulate drop/rise settings.

Digital SLR Camera**Annexure – IV**

SLT & DSLR Camera	
General Camera Type	Digital SLR camera with built-in flash and interchangeable lenses
Lens Used Sony α lenses, Minolta and Konica Minolta AF lenses	Image Capture
Sensor 23.6 x 15.8mm (APS-C type) with RGB primary colour filter	No. of Pixels Total: 10.8 megapixels; Effective: 10.2 megapixels
Dust Reduction Charge protection coating on low pass filter and image-sensor shift mechanism	Sensitivity Auto, ISO 100 to 3200 (in 1-stop increments, Recommended Exposure Index)
Recording	Recording Media Memory Stick Duo, Memory Stick PRO-HG Duo, Memory Stick PRO-HG Duo HX, SD Memory card, SDHC Memory card
Format Function FAT 12, 16, 32	File Format JPEG (DCF2.0, Exif 2.21), RAW (Sony ARW 2.0 format), RAW + JPEG
Image Size (Aspect ratio 3:2) L(10M):3,872 x 2,592; M(5.6M): 2,896 x 1,936; S(2.5M): 1,320 x 1,280	Image Size (Aspect ratio 16:9) L(8.4M):3,872 x 2,176; M(4.7M): 2,896 x 1,632; S(2.1M): 1,920 x 1,080
Colour Modes sRGB, Adobe RGB	Image Quality Modes Standard, Fine, RAW, RAW+JPEG
Noise Reduction Long Exposure: Available at shutter speeds longer than 1 sec. High ISO: available at the ISO set to 1600 or above	Creative Style Standard, Vivid, Portrait, Landscape, Sunset, Night view, B/W
D-Range Optimizer Mode: off / Standard / Advanced	White Balance
Settings Auto, Preset (Daylight, Shade, Cloudy, Tungsten, Fluorescent, Flash), Custom	Steady Shot® INSIDE (Image Stabilization)
System Image-sensor shift mechanism	Display Indicator inside viewfinder

Compensation	Approx. 2.5 - 3.5 steps decrease in shutter speeds (varies according to conditions and lens used)	Display	
LCD Monitor	2.7 (6.9 cm) (100% field of view), 230,400-dot TFT, Clear Photo LCD	Live View	
Type of Use	Pentamirror tilt system	Image Sensor	Dedicated for live view
Metering	1200-zone evaluative	Sensitivity	EV 2 - 17 (at ISO 100 with F1.4 lens, in all metering modes)
Coverage	90%	Smart Tele converter Function	1.4x or 2x selectable
Other Functions	Histogram display, real-time image-adjustment display	AF System	
Focus Modes	Single-shot AF, Auto AF, Continuous AF, Manual Focus	Main Features	Focus areas selection (Wide area / 9-point local frame selection / fixed centre spot focus), predictive focus for moving subjects, focus lock, Eye-Start AF, AF illuminator using built-in flash
Type	TTL phase-detection system	Sensor	CCD line sensors (9 points)
Sensitivity Range	0EV - 18EV, ISO 100 equivalent	AF Illuminator	Range: 1 - 5m
AE System		Exposure Modes	Program AE (AUTO, AUTO with Flash Off, P), Aperture priority, Shutter priority, Manual
Scene Selector	Portrait, Landscape, Macro, Sports, Sunset, Night view / Night portrait	Metering Type	TTL metering (Multi Segment, Center-Weighted, Spot)
Metering Sensor	40-segment honeycomb-pattern SPC	Metering Range	2EV - 20EV (+4EV to +20EV with spot metering), ISO 100 equivalent with F1.4 lens
Exposure Compensation	+/- 2EV (1/3 EV increments)	AE Lock	Yes
Built-In Flash		Type	Built-in Auto Pop-up
Flash Metering and Control		Flash Coverage	18mm (focal length printed on lens)

ADI/ Pre- flash TTL flash	
Flash Modes Auto (Flash-off), Auto, Fill flash, Red-eye reduction, Rear Sync, Slow sync, High-speed sync*, Wireless* *Requires compatible external flash	Guide Number GN 10 (in meters at ISO 100)
Flash Compensation +/- 2EV (1/3 EV increments)	Recycling Time Approx. 4 seconds
Recycling Time Approx. 4 seconds	Shutter
Type Electronically-controlled, vertical-traverse, focal-plane shutter	Speed Range 1/4000 sec. -30 sec., bulb
Flash Sync Speed 1/160 sec	Viewfinder
Type Fixed eye-level, penta-Dach-mirror	Focusing Screen Spherical Acute Matte
Field of View 95%	Magnification 0.74x (with 50mm lens at infinity)
Eye Relief Approx. 20.8mm from the eyepiece, 16.7mm from the eyepiece frame at -1 diopter	Diopter Control -3.0 to +1.0m
Shooting	Exposure Bracketing 3 continuous or single exposures selectable, in 0.3 or 0.7-stop increment
Continuous Shooting Rate Up to 2.5 fps with viewfinder, Up to 2 fps in live view mode	Continuous Shooting Limit L size, Fine: until memory card is full, RAW: 6 frames, RAW+JPEG: 3 frames
Self-Timer	10 sec., 2 sec.
Printing Output Control Exif Print, Print Image Matching III, PictBridge, DPOF setting	Power
Battery NP-FH50	External Power Source AC adaptor - AV-PW10AM (optional)
Battery Performance Approx.510 shots(OVF) / Approx.230 shots(Live view) (CIPA measurement)	Connectivity
PC Interface USB2.0 Hi-Speed	Size

(mass storage mode / PTP mode)	
Dimensions (W x H x D) Approx. 128 x 97 x 71.4mm (excl. protrusions)	Weight Approx. 490g (not including battery, memory card or accessories)
Warranty	1 year comprehensive onsite warranty

Plasma / LCD / TV

Annexure – V

42"/52" LCD TV

Resolution :	1920 X 1080 P
Brightness (Cd/M Square) :	500 Cd/ M Square
Viewing Angle :	178/178
Color Reproduction (RGB) :	10 Bit
Life (Hrs) :	60,000 Hrs
Aspect Ratio :	16: 9
Digital Comb Filter :	3D Comb Filter
Main Input for Picture in Picture:	Composite/RGB/HDMI
Sub Input : TV/AV Connectivity (Side):	AV/HDMI
Connectivity (Rear):	RF, AV, AV OUT, Component in + audio, HDMI/HDCP, RGBIN(D Sub 15 Pin),PC, Audio Input.
Accessories:	Stand, Remote, Battery (2AA)
Warranty	1 Year comprehensive onsite warranty

Annexure-VI			
Specifications of application software			
B	SOFTWARE		
	1	Antivirus (Kaspersky Enterprise Edition Total Space Security. 40 Users)	1
	2	Windows 2008 Server (1-enterprise, 2-standard)	1
	3	Linux (1-advanced, 2-standard)	1
	4	MS Office 2010 Professional (35 Licence)	1
	JOB WORK		
	1	Web Portal Development & Maintenance	1 job
	2	Network installation and Structured Cabling of 100 nodes	1 job