



NORTH ORISSA UNIVERSITY

SRIRAM CHANDRA VIHAR, TAKATPUR, BARIPADA, MAYURBHANJ- 757 003

No: 837 /NOU/Store/155(2017-18)

Date: 27-02-2019

TENDER NOTICE

Sealed tender papers are invited from supplier/registered and established firms having valid GSTIN certification and Authorized Dealer Certificate for supply of Scientific Equipment (Sterile filtration unit with vacuum pump), AC, Invertor, Refrigerator, Multimedia Projector, Retractable Projector Screens, White boards, Smart Board, Server, Sound system, Photocopier, Vacum Cleaner, Aqua guard, CCTV camera, Online UPS, Computer items (Laptop, Desktop, Printer, Wi fi Router, UPS), Furniture items (Podium, Executive Chair, Dining Table, Chair with Arm Desk, Reading Table with Chair, Book Self/Book case), Sensor for Over head Tank, Lightening Arrestor of North Orissa University, Baripada. Interested parties are required to submit the technical bids and financial bids separately.

The details of the Tender Papers shall be obtained on payment of ₹ 200/- (non-refundable in shape of DD in favour of Comptroller of Finance, North Orissa University, payable at Baripada) from the office of the Registrar, North Orissa University during the office hours from 27.02.2019 to 07.03.2019 (11 AM) or details of the Tender Paper may be downloaded from our website www.nou.nic.in. The tender papers of technical bids will be opened on 07.03.2019 at 12.30 PM and financial bids will be considered only after fulfilling the technical bids. Earnest Money Deposit (EMD) of an amount of ₹ 5,000/- or 1% of the total cost of the quoted items whichever is higher will be deposited in the shape of DD in favour of Comptroller of Finance, North Orissa University payable at Baripada.

The University authority reserves all the right to accept/ reject any or all quotations at any stage without assigning any reason thereof.

By order of Vice-Chancellor


Registrar
North Orissa University

Memo No. 838 // Dt. 27-02-2019

Copy forwarded to Prof in charge University website/Notice Board/ Comptroller of Finance/ PS to Vice-Chancellor/PA to Registrar/Account-I for information.

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Registrar
North Orissa University

LIST OF ELECTRONIC ITEMS TO BE PURCHASED UNDER RUSA/UGC FUNDS

Sl	Name of item	To be purchased from	Specification
1	AC (2 Nos)	UGC/RUSA	1.5/2 TON, 3-5 STARS, STABILIZER: V-GUARD (VWR 400) 90-270 VOLT
	<u>Split ACs with Stabilizers</u>	UGC/RUSA	<p>2 ton 3 star split AC with Stabilizer Qty: 02 (for Career Counselling Cell) + AC Make: Lloyd/Carrier/Hitachi/Voltas/LG/Samsung Specification: 2 ton 3 Star Split AC with Installation</p> <p>AC Stabilizer Make: V-Guard/Microtek Specification: For 2 ton AC with Installation</p> <p>1.5 ton 3 star split AC with Stabilizer Qty: 02 (for Career Counselling Cell) + AC Make: Lloyd/Carrier/Hitachi/Voltas/LG/Samsung Specification: 2 ton 3 Star Split AC with Installation</p> <p>AC Stabilizer Make: V-Guard/Microtek Specification: For 1.5 ton AC with Installation</p>
2	Refrigerator (2 Nos)	UGC	190/220 LITERS, Inbuilt stabilizer, 5 Year warranty, free delivery and installation
3	Inverter	UGC	2.5 KVA,
	Inverter	UGC	1050 VA
	Inverter		<p>Rating in KVA & Min. VAH Capacity of Battery 2 KVA/8640 VAH;Technology IGBT-PWM Energy Star Rating:5 Star Trolley;Tubular battery confirming to IS:13369 Backup time (Minutes); Minimum 180 Minutes Thickness of sheet for trolley (in mm) minimum1.2 Trolley Material CRCA Steel Type of enclosure CRCA Steel Thickness of sheet for enclosure (in mm) minimum 1.2 Inverter shall have by pass facility:Yes The inverters shall be provided with output voltage and current meters conforming to IS 2419 : 1979 and of an accuracy class not inferior to 2.5 in accordance with IS 1248 : 1983</p>
2	Inverter Battery (2 nos)	UGC/RUSA	Toll Tubular (For 2.5 KVA)
3	Inverter Battery	UGC/RUSA	Toll Tubular (For 1050 VA)
4	UPS	UGC/RUSA	Capacity- 600VA/360W
5	Three phase air cooled voltage stabilizer	UGC	

6	One set of dies (13mm dia. Tungsten carbide alloy steel)	UGC									
7	High Temp. dc power supply(5Kv 20mA)	UGC									
	Vacuum cleaner	RUSA	Wet & Dry Vacuum Cleaners SE 122								
	Aquagaurd	RUSA	<p>Conformity To Indian Standrad For System: IS:14724(latest) Output Water Of RO System Conforming To Indian Standard IS:10500(latest) Input Water TDS: 1000 mg/L; Output Capacity: 100 L/Hrs; Recovery At 27 °C- 30-40 % Thin-film Composite Membrane, Ultraviolet (UV) LAMP, Ultraviolet (UV)LAMP Wattage, Number Of Float Valves/sensors, High Pressure Pump, Raw Water/Chemical Raw Water/Chemical Cleaning PUMP, Micron Filter,MembraneHousing,Auto Cut, No Of Candles, Installation Type; Table Top Warranty For Free Candle And Activated Carbon Replacement Twice A Year: 2 Years Warranty For Free Replacement Of Machine: 2 Years</p> <table border="1"> <tr> <td>Antiscalant- Where Silica Is Up To 100 Ppm/where Mica Is Up To 100 Ppm</td> <td>Yes</td> </tr> <tr> <td>Iron Removing Filter Max. 0.3 Ppm</td> <td>Yes</td> </tr> <tr> <td>Chloride &Flouride Removal Pump</td> <td>Yes</td> </tr> <tr> <td>Coolong and storage</td> <td>80 lits</td> </tr> </table>	Antiscalant- Where Silica Is Up To 100 Ppm/where Mica Is Up To 100 Ppm	Yes	Iron Removing Filter Max. 0.3 Ppm	Yes	Chloride &Flouride Removal Pump	Yes	Coolong and storage	80 lits
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LIST OF SCIENTIFIC INSTRUMENTS TO BE PURCHASED UNDER RUSA/UGC FUNDS

Sl	Name of item	To be purchased from	Specification
1	TLC plate analyzer	UGC	Double UV tubes, USB for PC connection, fit for 20 × 20 plates, digital CCD camera, UV protective glass, Image enhancement tool
2	Mini extruder	UGC	Stainless steel, Heating block, Teflon O ring (2 Nos), Gas tight syringe (2 Nos), 100 numbers of polycarbonate membrane, 100 numbers of filter support

3	Sterile filtration unit with vacuum pump	RUSA	The unit should include both filtration apparatus and vacuum pump. The filtration unit should include Glass filter holder assembly with funnel, fritted base, stopper, clamp, autoclavable, filter diameter 47 mm, funnel capacity 300 mL and filtration flask capacity 1L. Choice may be given for 4L filtration flask capacity. The vacuum pump should run at 220-230 V, Power Output 60 W, Max current 0.32 A, Speed 1450 Rpm, Weight around 5 kg, Port Thread 5/16 inch, Max Vacuum -600 mm Hg, Dimension (LxWxH) should be more or equal to 20 x11 x20 cm.
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LIST OF ITEM AND SPECIFICATION FOR MEDICAL INSTRUMENTS FROM UGC

Sl	Name of item
1	Autoclave with One drum
2	Sterilizing drum
3	Instrument sterilizer
4	Oxygen Cylinder
5	Scissors (One end blunt)
6	Weight machine
7	IV Set
8	Surgical Tape
9	Bandaid/ Handyplast
10	Bandage
11	Volini Spray, Pain killer spray
12	Streticher
13	Glucometer ,With strips & Needles

COMPUTER & ALLIED ITEMS UNDER RUSA FUND

Sl	Name of items	Specification
1	Laser MFP printer	Qty: 02 (one for Career & Counselling Cell, one for office) Make: HP/Samsung/Canon Specification:

Features	Description
FUNCTIONS	Print, copy, scan, fax
PRINT RESOLUTION	Black (Best): Up to 600 x 600 x 2 dpi; Black (Normal): Up to 600 x 600 x 2 dpi
PRINT SPEED	Black (Letter): Up to 26 ppm; First Page Out: As fast as 8.5 sec
NUMBER OF PRINT CARTRIDGES	1 (black)
PRINTER SMART SOFTWARE FEATURES	Duplex printing
SCAN TYPE	Flatbed, ADF
SCANNER ADVANCED FEATURES	Instant on scanner, 35-page Automatic Document Feeder (ADF), OCR software in box
SCAN RESOLUTION	Enhanced: Up to 19,200 dpi; Hardware: Up to 1200 x 1200 dpi Optical: Up to 1200 dpi
SCAN SPEED	Black (Normal): Up to 15 ppm; ADF Speed: Up to 15 ppm
SCAN SIZE ADF (MAXIMUM)	8.5 x 14 in (216 x 356 mm)
SCAN FILE FORMAT	JPEG, TIF, BMP, GIF, PDF, PNG
BIT DEPTH	24-bit
COPY RESOLUTION	Black (Text): Up to 600 x 600 dpi; Black (Graphics): Up to 1200 x 1200 dpi Color (Text and Graphics): Up to 1200 x 1200 dpi
COPY SPEED	Black (Best, Letter): Up to 15 cpm; Black (Best, A4): Up to 15 cpm
MAXIMUM NUMBER OF COPIES	Up to 99 copies
COPY REDUCE/ENLARGE SETTINGS	25 to 400%
COPIER SETTING	Up to 99 multiple copies, Collation, Reduce/Enlarge from 25% to 400%, Contrast (Lighter/Darker), Resolution (Copy quality), ID copy, Copy optimization, Draft mode copy, Manual duplex
FAX RESOLUTION	Black Photo Grayscale: 300 x 300 dpi (halftone enabled) Black and White, Standard Mode: 203 x 98 dpi; Black and White, Superfine Mode: 300 x 300 dpi (no halftone)
FAX SPEED DIALING, MAX NUMBERS	120 numbers
FAX MODEM	33.6 kbps
FAX MEMORY	Up to 400 pages
FAX FEATURES	Auto Fax Reduction Supported: Yes; Auto Redial: Yes Fax Delayed Sending: Yes; Distinctive Ring Detection Supported: Yes; Broadcast Locations: 119 Locations; Fax Forwarding: Yes; Fax Phone Tam Interface Supported: Yes; Polling: Yes (Poll To Receive Only); Fax Telephone Mode Supported: Yes; Junk Fax Barrier: Yes; Speed Dials, Maximum Number: Up To 120 Numbers (119 Group Dials); PC Interface Supported: Yes; Remote Retrieval: No Telephone Handset Supported: No
DUTY CYCLE (MONTHLY) ⁴	Up to 8,000 pages
RECOMMENDED	Up to 500 to 2,000 pages

	MONTHLY PAGE VOLUME	
	STANDARD CONNECTIVITY	1 Hi-Speed USB 2.0 port, 1 10/100 Ethernet network port
	NETWORK CAPABILITIES	10/100 Ethernet; Network Ready: Standard (built-in Ethernet)
	CONTROL PANEL	2-line LCD text display, Buttons (Alphanumeric, Navigational), Copy buttons (Start copy, Reduce/Enlarge, Lighter/Darker, Copy menu, Number of copies), Fax buttons (Start fax, Phone book, Fax menu, Redial, Speed Dial), LED indicator lights (Setup, Left, Ok, Right, Back, Cancel)
	DISPLAY	2-line LCD (text) display
	MAXIMUM/STANDARD MEMORY	128 MB
	PROCESSOR	Type: Freescale Coldfire V5X processor; Speed: 500 MHz
	DUPLEX PRINT OPTIONS	Automatic (standard)
	MEDIA TYPE AND CAPACITY	ADF: 35 sheets; Tray 1: 250 sheets; Tray 2: 10 sheets, 10 transparencies, 10 envelopes
	MEDIA SIZES SUPPORTED	Tray 1 (priority feed tray): minimum: 3 x 5 in; maximum: 8.5 x 14 in; Tray 2 (main tray): minimum: 3 x 7.4 in; maximum: 8.5 x 14 in
	STANDARD MEDIA SIZES (DUPLEX, IMPERIAL)	A4, letter and legal
	CUSTOM MEDIA SIZES	3 x 5 to 8.5 x 14 in (76 x 127 to 216 x 356 mm)
	PRINT HANDLING	Input Capacity: Up to 250 sheets, Up to 10 envelopes, Output Capacity: Up to 100 sheets, Up to 10 envelopes, Up to 10 sheets transparencies
	POWER	Power Supply Type: Built-in power supply, Power Requirements: Input voltage 110 to 127 VAC (+/- 10%), 50/60 Hz (+/- 2 Hz), 5.4 A; 220 to 240 VAC (+/- 10%), 50/60 Hz (+/- 2 Hz), 2.9 A; Power Consumption: 445 watts printing, 325 watts copying, 4.7 watts ready, 0.2 watts off; Typical Electricity Consumption (TEC) Number: 1.386 kWh/Week
	SOFTWARE INCLUDED	Printer Installer Driver
	COMPATIBLE OPERATING SYSTEMS	Windows, MAC
	ACOUSTIC	Acoustic Power Emissions: 6.5 B(A); Acoustic Power Emissions (Ready): Inaudible; Acoustic Pressure Emissions: 51 dB(A)
	OPERATING ENVIRONMENT	Operating Temperature Range: 59 to 90.5o F (15 to 32.5o C) Recommended Operating Temperature: 62.6 to 77o F (17 to 25o C) Storage Temperature Range: -4 to 104o F (-20 to 40o C); Operating Humidity Range: 10 to 80% RH; Recommended Humidity Operating Range: 30 to 70% RH
	WARRANTY	One-year limited warranty;
	CARTRIDGES	one
	ACCESSORIES	USB Cable

2	Laptop Qty: 1	<p>Make: Dell/Lenovo/HP Specification:</p> <table border="1"> <tr> <td>Operating System</td> <td>Windows 10 Home Single Language</td> </tr> <tr> <td>Warranty</td> <td>3Yr Onsite Service-Retail</td> </tr> <tr> <td>Display Size (in inches)</td> <td>18.5 inch</td> </tr> <tr> <td>Screen / Display Type</td> <td>18.5 inch Monitor</td> </tr> <tr> <td>Maximum Resolution (in Pixels)</td> <td>*</td> </tr> <tr> <td>Processor</td> <td>7th Gen Core i3</td> </tr> <tr> <td>CPU Speed (in GHz)</td> <td>3MB Cache, up to 3.90 GHz</td> </tr> <tr> <td>Architecture</td> <td>*</td> </tr> <tr> <td>AntiVirus</td> <td>McAfee® Multi Device 15 month subscription</td> </tr> <tr> <td>RAM Type</td> <td>4GB Single Channel DDR4 2400MHz (4GBx1)</td> </tr> <tr> <td>RAM Size in GB</td> <td>4GB</td> </tr> <tr> <td>HDD Type</td> <td>3.5inch 1TB 7200 rpm SATA Hard Drive</td> </tr> <tr> <td>Hard Disk Drive (Storage)</td> <td>1 TB</td> </tr> <tr> <td>Graphic Card Model</td> <td>Integrated Graphics included</td> </tr> <tr> <td>Optical Drive</td> <td>Tray load DVD Drive (Reads and Writes to DVD/CD)</td> </tr> <tr> <td>Wireless</td> <td>(802.11BGN + Bluetooth 4.0, 2.4 GHz)</td> </tr> <tr> <td>Bluetooth</td> <td>Bluetooth 4.0</td> </tr> <tr> <td>Connectivity</td> <td>(802.11BGN + Bluetooth 4.0, 2.4 GHz)</td> </tr> <tr> <td>Card Reader</td> <td>1. Optical drive 2. Power button 3. 5:1 media card reader 4. Universal audio jack 5. (2) USB 3.0 ports 6. Line in/out & mic 7. VGA Connector 8. HDMI 9. (4) USB 2.0 ports 10 . Ethernet Port (RJ45) 11 . Expansion card slots 12. Power</td> </tr> </table>	Operating System	Windows 10 Home Single Language	Warranty	3Yr Onsite Service-Retail	Display Size (in inches)	18.5 inch	Screen / Display Type	18.5 inch Monitor	Maximum Resolution (in Pixels)	*	Processor	7th Gen Core i3	CPU Speed (in GHz)	3MB Cache, up to 3.90 GHz	Architecture	*	AntiVirus	McAfee® Multi Device 15 month subscription	RAM Type	4GB Single Channel DDR4 2400MHz (4GBx1)	RAM Size in GB	4GB	HDD Type	3.5inch 1TB 7200 rpm SATA Hard Drive	Hard Disk Drive (Storage)	1 TB	Graphic Card Model	Integrated Graphics included	Optical Drive	Tray load DVD Drive (Reads and Writes to DVD/CD)	Wireless	(802.11BGN + Bluetooth 4.0, 2.4 GHz)	Bluetooth	Bluetooth 4.0	Connectivity	(802.11BGN + Bluetooth 4.0, 2.4 GHz)	Card Reader	1. Optical drive 2. Power button 3. 5:1 media card reader 4. Universal audio jack 5. (2) USB 3.0 ports 6. Line in/out & mic 7. VGA Connector 8. HDMI 9. (4) USB 2.0 ports 10 . Ethernet Port (RJ45) 11 . Expansion card slots 12. Power
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		<p>DVD: 9.5mm SATA DVD RW Drive</p> <p>Management: IPMI 2.0 compliant;</p> <p>High availability: Hot-plug drives bays; high-efficiency, hot-plug, redundant power supply units; fan redundancy; extended thermal support; fault-resilient memory; Internal dual SD modules</p> <p>Chassis: 5U tower</p> <p>Power Supply: 2*495W high-efficiency redundant power supplies</p> <p>OS: CentOS</p> <p>19.5" LED monitor (resolution of 1920 x 1080), wired keyboard and optical mouse shall be given</p> <p>Installation</p>	
4	Windows Server Qty: 1	Sl. No.	<p>Specification of Server for Central Library, North Orissa University</p> <p>Make: Dell/IBM/HP</p> <p>1 Processor: 2*Intel Xeon E5-2620v4, Clock frequency 1.7 GHz, 20 MB Cache, 8 core</p> <p>2 Memory:128 GB DDR4-2400</p> <p>3 Internal Storage :8 TB HOTPLUG SAS 6gb/s 10k RPM 2.5" HDD [Max upto 16 nos. drive]</p> <p>4 Raid Controller : RAID 0, 1,5 in-built</p> <p>5 LAN: Dual port gigabit Ethernet LAN</p> <p>6 DVD: 9.5mm SATA DVD RW Drive</p> <p>7 Management: IPMI 2.0 compliant;</p> <p>8 High availability: Hot-plug drives bays; high-efficiency, hot-plug, redundant power supply units; fan redundancy; extended thermal support; fault-resilient memory; Internal dual SD modules</p> <p>9 Chassis: 5U tower</p> <p>10 Power Supply: 2*495W high-efficiency redundant power supplies</p> <p>11 OS: Microsoft Windows Server 2016 std. edn. OLP NL</p> <p>12 19.5" LED monitor (resolution of 1920 x 1080), wired keyboard and optical mouse shall be given</p> <p>13 Installation</p>

5	600 VA UPS for Desktop	Qty: 06 (Career Counselling Cell) + Make: V Guard/Emerson Specification: 600 VA																																						
6	Desktop	<p>Item 3.6: Desktop Qty: 06 (Career Counselling Cell) + Make: Dell/Lenovo/HP Specification:</p> <table border="1" data-bbox="430 457 1404 1749"> <tr> <td data-bbox="430 457 750 512">Operating System</td> <td data-bbox="750 457 1404 512">Windows 10 Home Single Language</td> </tr> <tr> <td data-bbox="430 512 750 567">Warranty</td> <td data-bbox="750 512 1404 567">3Yr Onsite Service-Retail</td> </tr> <tr> <td data-bbox="430 567 750 653">Display Size (in inches)</td> <td data-bbox="750 567 1404 653">18.5 inch</td> </tr> <tr> <td data-bbox="430 653 750 739">Screen / Display Type</td> <td data-bbox="750 653 1404 739">18.5 inch Monitor</td> </tr> <tr> <td data-bbox="430 739 750 825">Maximum Resolution (in Pixels)</td> <td data-bbox="750 739 1404 825">*</td> </tr> <tr> <td data-bbox="430 825 750 879">Processor</td> <td data-bbox="750 825 1404 879">7th Gen Core i3</td> </tr> <tr> <td data-bbox="430 879 750 934">CPU Speed (in GHz)</td> <td data-bbox="750 879 1404 934">3MB Cache, up to 3.90 GHz</td> </tr> <tr> <td data-bbox="430 934 750 989">Architecture</td> <td data-bbox="750 934 1404 989">*</td> </tr> <tr> <td data-bbox="430 989 750 1043">AntiVirus</td> <td data-bbox="750 989 1404 1043">McAfee® Multi Device 15 month subscription</td> </tr> <tr> <td data-bbox="430 1043 750 1098">RAM Type</td> <td data-bbox="750 1043 1404 1098">4GB Single Channel DDR4 2400MHz (4GBx1)</td> </tr> <tr> <td data-bbox="430 1098 750 1152">RAM Size in GB</td> <td data-bbox="750 1098 1404 1152">4GB</td> </tr> <tr> <td data-bbox="430 1152 750 1207">HDD Type</td> <td data-bbox="750 1152 1404 1207">3.5inch 1TB 7200 rpm SATA Hard Drive</td> </tr> <tr> <td data-bbox="430 1207 750 1293">Hard Disk Drive (Storage)</td> <td data-bbox="750 1207 1404 1293">1 TB</td> </tr> <tr> <td data-bbox="430 1293 750 1348">Graphic Card Model</td> <td data-bbox="750 1293 1404 1348">Integrated Graphics included</td> </tr> <tr> <td data-bbox="430 1348 750 1402">Optical Drive</td> <td data-bbox="750 1348 1404 1402">Tray load DVD Drive (Reads and Writes to DVD/CD)</td> </tr> <tr> <td data-bbox="430 1402 750 1457">Wireless</td> <td data-bbox="750 1402 1404 1457">(802.11BGN + Bluetooth 4.0, 2.4 GHz)</td> </tr> <tr> <td data-bbox="430 1457 750 1512">Bluetooth</td> <td data-bbox="750 1457 1404 1512">Bluetooth 4.0</td> </tr> <tr> <td data-bbox="430 1512 750 1566">Connectivity</td> <td data-bbox="750 1512 1404 1566">(802.11BGN + Bluetooth 4.0, 2.4 GHz)</td> </tr> <tr> <td data-bbox="430 1566 750 1749">Card Reader</td> <td data-bbox="750 1566 1404 1749">1. Optical drive 2. Power button 3. 5:1 media card reader 4. Universal audio jack 5. (2) USB 3.0 ports 6. Line in/out & mic 7. VGA Connector 8. HDMI 9. (4) USB 2.0 ports 10 . Ethernet Port (RJ45) 11 . Expansion card slots 12. Power</td> </tr> </table>	Operating System	Windows 10 Home Single Language	Warranty	3Yr Onsite Service-Retail	Display Size (in inches)	18.5 inch	Screen / Display Type	18.5 inch Monitor	Maximum Resolution (in Pixels)	*	Processor	7th Gen Core i3	CPU Speed (in GHz)	3MB Cache, up to 3.90 GHz	Architecture	*	AntiVirus	McAfee® Multi Device 15 month subscription	RAM Type	4GB Single Channel DDR4 2400MHz (4GBx1)	RAM Size in GB	4GB	HDD Type	3.5inch 1TB 7200 rpm SATA Hard Drive	Hard Disk Drive (Storage)	1 TB	Graphic Card Model	Integrated Graphics included	Optical Drive	Tray load DVD Drive (Reads and Writes to DVD/CD)	Wireless	(802.11BGN + Bluetooth 4.0, 2.4 GHz)	Bluetooth	Bluetooth 4.0	Connectivity	(802.11BGN + Bluetooth 4.0, 2.4 GHz)	Card Reader	1. Optical drive 2. Power button 3. 5:1 media card reader 4. Universal audio jack 5. (2) USB 3.0 ports 6. Line in/out & mic 7. VGA Connector 8. HDMI 9. (4) USB 2.0 ports 10 . Ethernet Port (RJ45) 11 . Expansion card slots 12. Power
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7	Online UPS	Item 4.1: Online UPS System for Central Library Specification:																																						

	System	<table border="1"> <tr> <td data-bbox="407 182 521 1121">a.</td> <td data-bbox="521 182 1421 1121"> <p>UPS Make: APC/Emerson/Numeric (Quantity: 1)</p> <p>Description: 6KVA Double conversion online UPS with surge protection along with all the accessories and packages</p> <p>Input specifications: Nominal input voltage: 230 V Input frequency: 40 - 70 Hz Input connection Hardwire Input voltage range: 160 V - 285 V at 100% load. UPS will be de-rated up to 100 Vac below 160 Vac Input power factor(100% load): 0.98</p> <p>Output specifications: Output power capacity: 6000 VA Nominal output voltage: 230 V Other programmable voltages: 220/240 V Efficiency at full load: > 94% in online mode, > 98% in green mode Waveform: Sinewave Output connection: Hardwire</p> <p>Bypass specifications: Bypass type: Internal static bypass (automatic and manual), optional external bypass Bypass input voltage range: 170 - 270 V Max. bypass current: 40 A Input protection Circuit breaker</p> <p>Battery Charger: Supported battery types: Sealed Maintenance Free (SMF) / Valve Regulated Lead Acid (VRLA) type, Flooded / tubular / vented type Battery bank voltage: 192 V Maximum power/current: 1500 W / 6.5 A</p> </td> </tr> <tr> <td data-bbox="407 1121 521 1209">b.</td> <td data-bbox="521 1121 1421 1209"> <p>Battery Make: Quanta/Excide/Rocket (Quantity: 16) 12 V 100AH SMF VRLA Batteries along with 10² mm wires and battery logs</p> </td> </tr> <tr> <td data-bbox="407 1209 521 1346">c.</td> <td data-bbox="521 1209 1421 1346"> <p>Installation: Including all the electrical wires, casing, fittings and fixing.</p> </td> </tr> </table>	a.	<p>UPS Make: APC/Emerson/Numeric (Quantity: 1)</p> <p>Description: 6KVA Double conversion online UPS with surge protection along with all the accessories and packages</p> <p>Input specifications: Nominal input voltage: 230 V Input frequency: 40 - 70 Hz Input connection Hardwire Input voltage range: 160 V - 285 V at 100% load. UPS will be de-rated up to 100 Vac below 160 Vac Input power factor(100% load): 0.98</p> <p>Output specifications: Output power capacity: 6000 VA Nominal output voltage: 230 V Other programmable voltages: 220/240 V Efficiency at full load: > 94% in online mode, > 98% in green mode Waveform: Sinewave Output connection: Hardwire</p> <p>Bypass specifications: Bypass type: Internal static bypass (automatic and manual), optional external bypass Bypass input voltage range: 170 - 270 V Max. bypass current: 40 A Input protection Circuit breaker</p> <p>Battery Charger: Supported battery types: Sealed Maintenance Free (SMF) / Valve Regulated Lead Acid (VRLA) type, Flooded / tubular / vented type Battery bank voltage: 192 V Maximum power/current: 1500 W / 6.5 A</p>	b.	<p>Battery Make: Quanta/Excide/Rocket (Quantity: 16) 12 V 100AH SMF VRLA Batteries along with 10² mm wires and battery logs</p>	c.	<p>Installation: Including all the electrical wires, casing, fittings and fixing.</p>
a.	<p>UPS Make: APC/Emerson/Numeric (Quantity: 1)</p> <p>Description: 6KVA Double conversion online UPS with surge protection along with all the accessories and packages</p> <p>Input specifications: Nominal input voltage: 230 V Input frequency: 40 - 70 Hz Input connection Hardwire Input voltage range: 160 V - 285 V at 100% load. UPS will be de-rated up to 100 Vac below 160 Vac Input power factor(100% load): 0.98</p> <p>Output specifications: Output power capacity: 6000 VA Nominal output voltage: 230 V Other programmable voltages: 220/240 V Efficiency at full load: > 94% in online mode, > 98% in green mode Waveform: Sinewave Output connection: Hardwire</p> <p>Bypass specifications: Bypass type: Internal static bypass (automatic and manual), optional external bypass Bypass input voltage range: 170 - 270 V Max. bypass current: 40 A Input protection Circuit breaker</p> <p>Battery Charger: Supported battery types: Sealed Maintenance Free (SMF) / Valve Regulated Lead Acid (VRLA) type, Flooded / tubular / vented type Battery bank voltage: 192 V Maximum power/current: 1500 W / 6.5 A</p>							
b.	<p>Battery Make: Quanta/Excide/Rocket (Quantity: 16) 12 V 100AH SMF VRLA Batteries along with 10² mm wires and battery logs</p>							
c.	<p>Installation: Including all the electrical wires, casing, fittings and fixing.</p>							

8	PA Sound Systems	<p>Item 5.1: PA Sound System for Meeting room Make: Ahuja/StudioMaster/Bosch/Philips/ Toshiba <i>Components, Quantity & Specification:</i> Component: Cordless Mic set (two cordless microphones) Qty: 1 Specification:</p> <table border="1"> <tr> <td data-bbox="407 1535 857 1577">Receiver</td> <td data-bbox="857 1535 1421 1577">Dual Channel Non-Diversity</td> </tr> <tr> <td data-bbox="407 1577 857 1619">Frequency response</td> <td data-bbox="857 1577 1421 1619">50Hz-16KHz</td> </tr> <tr> <td data-bbox="407 1619 857 1661">Polar Pattern (Hand mic)</td> <td data-bbox="857 1619 1421 1661">Cardioid</td> </tr> <tr> <td data-bbox="407 1661 857 1745">Output</td> <td data-bbox="857 1661 1421 1745">Individual Channel: XLR Mix out: ¼" Jack</td> </tr> <tr> <td data-bbox="407 1745 857 1787">Power Req. (Hand mic)</td> <td data-bbox="857 1745 1421 1787">2 x 1.5V AA</td> </tr> <tr> <td data-bbox="407 1787 857 1881">Receiver</td> <td data-bbox="857 1787 1421 1881">240V AC 50Hz for AC Adaptor Supplied with the set</td> </tr> </table>	Receiver	Dual Channel Non-Diversity	Frequency response	50Hz-16KHz	Polar Pattern (Hand mic)	Cardioid	Output	Individual Channel: XLR Mix out: ¼" Jack	Power Req. (Hand mic)	2 x 1.5V AA	Receiver	240V AC 50Hz for AC Adaptor Supplied with the set
Receiver	Dual Channel Non-Diversity													
Frequency response	50Hz-16KHz													
Polar Pattern (Hand mic)	Cardioid													
Output	Individual Channel: XLR Mix out: ¼" Jack													
Power Req. (Hand mic)	2 x 1.5V AA													
Receiver	240V AC 50Hz for AC Adaptor Supplied with the set													

Component: Goose neck microphone along with base

Qty - 2

Specification:

Frequency Response	20-18,000Hz
Impedance	1000Ω
Sensitivity	7.5mV/Pa
Power Source	1.5V-9V DC
Overall Length	585mm (23")

Component: Lavalier wireless microphone

Qty - 1

Specification:

TRANSMITTER	
RF Output Power	10mW(Max.)
Modulation Mode	FM
Microphone Element	Condenser, cardioid
Frequency Response	100-12,000Hz
Power Requirement	2 X 1.5V Pencil Cells
Current Consumption	<40mA
Controls	On/Off Switch
Indication	Red Ring LED in the gooseneck
Dimensions	W145 X H50 X D155mm
Weight	660g (w/o battery)
RECEIVER	
Audio Output	Balanced 0-50mV
	Unbalanced HI: 0-80mV; LO: 0-25mV
Distortion	<1%
Frequency Response	50-15,000Hz
Power Requirement	220V-240V AC 50Hz for AC adaptor (supplied alongwith)
Controls	Power Switch, HI/LO Switch, Squelch Control, Output Volume Control
Indication	Red LED for Power ON, Yellow LEDs for Diversity, Green LED for Audio Peak
Dimension	W195 X H45 X D150 mm
Weight	700g
Suitable for	PA Applications, cordless mic use in stage & auditorium, seminar halls etc
Warranty	as per manufacturer

Component: Lectern with Integrated PA system

Qty: 1

Specification:

RECEIVER AMPLIFIER	
Power Output	40 Watts Max.

		Speaker Impedance (External)		4
		Input Channels Sensitivity	Mic-1: 3.0mV Mic-2: 1.8mV Line: 100mV	
			Aux Position-1: 100mV Aux Position-2: 180mV	
			Aux Position-3: 300mV Position Aux-4: 700mV	
		Frequency Response	100-16,000Hz	
		Tone Control	Bass $\hat{A}\pm 6$ dB at 80Hz Treble $\hat{A}\pm 6$ dB at 8kHz	
		REC. Output	1V (nominal)	
		Power Supply	AC 220-240V, 50/60Hz	
		Power Consumption	AC 100W	
		Dimensions	W420 \hat{A} —H1135 \hat{A} —D580 mm	
		Weight	18.3kg.	
		MICROPHONE		
		Microphone	Dynamic Unidirectional	
		RF Carrier Frequency	174.10, 181.90, 190.32, 97.10MHz	
		Frequency Stability	$\hat{A}\pm 0.005$ %	
		Spurious Emissions	45dB Max.	
		RF Output Power	15mW Max.	
		Frequency Response	50-15,000Hz	
		Dynamic Range	100dB	
		Battery	9V	
		Dimensions	$\hat{A}\sim 55\hat{A}$ —L244 mm	
		Weight	0.20kg (w/o battery)	
		Component: PA Column speaker		
		Qty - 6		
		Specification:		
		Input Power	20W RMS, 30W Max.	
		Power Taps	20/15/10/5W	
		Voltage	100V	
		Frequency Response	150-15,000Hz	
		SPL at 1kHz	93dB/1W/1m	
		Speakers	4 \times 5" \times 3"	
		Dimensions	W115 \times H658 \times D89 mm	
		Weight	3.39kg	
		Component: Mixer Amplifier		
		Qty - 1		
		Specification:		
		Power Output	300W Max., 250W RMS at 10% THD, 220W Max., 160W RMS at 10% THD 220W RMS at 5% THD, 200W RMS at 2% THD	

		<table border="1"> <tr> <td>Output Regulation</td> <td>≤ 2 dB, no load to full load at 1kHz</td> </tr> <tr> <td>Input Channels</td> <td>6 × Mic 0.65mV/4.7kΩ, 2 × Aux 100mV/470 kΩ, 1 × Line 1V/50kΩ</td> </tr> <tr> <td>Frequency Response</td> <td>50-15,000Hz ±3dB</td> </tr> <tr> <td>Signal to Noise Ratio</td> <td>60dB</td> </tr> <tr> <td>Tone Controls</td> <td>Bass: ±10dB at 100Hz, Treble: ±10dB at 10kHz</td> </tr> <tr> <td>Output</td> <td>Preamp 200mV/600Ω, Line 1V/1kΩ</td> </tr> <tr> <td>Speaker Output</td> <td>4Ω, 8Ω, 70V & 100V</td> </tr> <tr> <td>Digital Player</td> <td>MP3 Player with USB, SD and MMC Card Reader</td> </tr> <tr> <td>Power Supply</td> <td>AC: 220-240V 50/60Hz DC: 24V (2×12V Car Battery)</td> </tr> <tr> <td>Power Consumption</td> <td>AC: 460VA DC: 6A</td> </tr> <tr> <td>Dimensions</td> <td>W450 × H160 × D340 mm</td> </tr> <tr> <td>Weight</td> <td>16.0kg</td> </tr> </table> <p>Installation: Installation in a room size of 19x49 feet and height 8.6 feet. Must include all the compatible wires, casing, wiring and fixing. Must include all the electrical fittings, wiring and fixing required for installation.</p>	Output Regulation	≤ 2 dB, no load to full load at 1kHz	Input Channels	6 × Mic 0.65mV/4.7kΩ, 2 × Aux 100mV/470 kΩ, 1 × Line 1V/50kΩ	Frequency Response	50-15,000Hz ±3dB	Signal to Noise Ratio	60dB	Tone Controls	Bass: ±10dB at 100Hz, Treble: ±10dB at 10kHz	Output	Preamp 200mV/600Ω, Line 1V/1kΩ	Speaker Output	4Ω, 8Ω, 70V & 100V	Digital Player	MP3 Player with USB, SD and MMC Card Reader	Power Supply	AC: 220-240V 50/60Hz DC: 24V (2×12V Car Battery)	Power Consumption	AC: 460VA DC: 6A	Dimensions	W450 × H160 × D340 mm	Weight	16.0kg
Output Regulation	≤ 2 dB, no load to full load at 1kHz																									
Input Channels	6 × Mic 0.65mV/4.7kΩ, 2 × Aux 100mV/470 kΩ, 1 × Line 1V/50kΩ																									
Frequency Response	50-15,000Hz ±3dB																									
Signal to Noise Ratio	60dB																									
Tone Controls	Bass: ±10dB at 100Hz, Treble: ±10dB at 10kHz																									
Output	Preamp 200mV/600Ω, Line 1V/1kΩ																									
Speaker Output	4Ω, 8Ω, 70V & 100V																									
Digital Player	MP3 Player with USB, SD and MMC Card Reader																									
Power Supply	AC: 220-240V 50/60Hz DC: 24V (2×12V Car Battery)																									
Power Consumption	AC: 460VA DC: 6A																									
Dimensions	W450 × H160 × D340 mm																									
Weight	16.0kg																									
9	PA Sound System for Class room for Career Counselling Cell	<p>Make: Ahuja/StudioMaster/Philips/Bosch/ Toshiba <i>Components, Quantity & Specification:</i> Component: Power Amplifier With Speaker Qty: 01 Specification:</p> <table border="1"> <tr> <td>Power Output</td> <td>15W RMS at 10% THD 10W RMS at 1% THD</td> </tr> <tr> <td>Output Regulation</td> <td>≤ 2dB</td> </tr> <tr> <td>Input Channels</td> <td>2 × Mic 1.5mV/4.7kΩ 1 x Aux 100 mV/330kΩ</td> </tr> <tr> <td>Frequency Response</td> <td>120-15,000Hz ±3dB</td> </tr> <tr> <td>Signal to Noise Ratio</td> <td>60dB</td> </tr> <tr> <td>Tone Controls</td> <td>-10dB at 10kHz</td> </tr> <tr> <td>Protections</td> <td>Fuse AC 1A, DC 4A</td> </tr> <tr> <td>Power Supply</td> <td>AC : 220V-240V 50/60Hz DC: 12V (12V Car Battery) and 8×1.5V UM-1 Cells</td> </tr> <tr> <td>AC Power Consumption</td> <td>50VA</td> </tr> <tr> <td>Dimensions</td> <td>W245 x H295 x D175 mm</td> </tr> <tr> <td>Weight</td> <td>5.70kg</td> </tr> </table> <p>Goose neck microphone along with base Qty - 01 Specification:</p> <table border="1"> <tr> <td>Frequency Response</td> <td>20-18,000Hz</td> </tr> </table>	Power Output	15W RMS at 10% THD 10W RMS at 1% THD	Output Regulation	≤ 2dB	Input Channels	2 × Mic 1.5mV/4.7kΩ 1 x Aux 100 mV/330kΩ	Frequency Response	120-15,000Hz ±3dB	Signal to Noise Ratio	60dB	Tone Controls	-10dB at 10kHz	Protections	Fuse AC 1A, DC 4A	Power Supply	AC : 220V-240V 50/60Hz DC: 12V (12V Car Battery) and 8×1.5V UM-1 Cells	AC Power Consumption	50VA	Dimensions	W245 x H295 x D175 mm	Weight	5.70kg	Frequency Response	20-18,000Hz
Power Output	15W RMS at 10% THD 10W RMS at 1% THD																									
Output Regulation	≤ 2dB																									
Input Channels	2 × Mic 1.5mV/4.7kΩ 1 x Aux 100 mV/330kΩ																									
Frequency Response	120-15,000Hz ±3dB																									
Signal to Noise Ratio	60dB																									
Tone Controls	-10dB at 10kHz																									
Protections	Fuse AC 1A, DC 4A																									
Power Supply	AC : 220V-240V 50/60Hz DC: 12V (12V Car Battery) and 8×1.5V UM-1 Cells																									
AC Power Consumption	50VA																									
Dimensions	W245 x H295 x D175 mm																									
Weight	5.70kg																									
Frequency Response	20-18,000Hz																									

		Impedance	1000Ω															
		Sensitivity	7.5mV/Pa															
		Power Source	1.5V-9V DC															
		Overall Length	585mm (23")															
		<p>Wireless Microphone Set Qty - 01 Specification:</p> <table border="1"> <tr> <td>Description</td> <td>High quality UHF band frequency duet Wireless Microphone System. One handheld microphone and One Lapalier microphone.</td> </tr> <tr> <td>Receiver</td> <td>Dual Channel Non-Diversity</td> </tr> <tr> <td>Frequency response</td> <td>50Hz-16KHz</td> </tr> <tr> <td>Polar Pattern (Hand mic)</td> <td>Cardioid</td> </tr> <tr> <td>Output</td> <td>Individual Channel: XLR Mix out: ¼" Jack</td> </tr> <tr> <td>Power Req. (Hand mic)</td> <td>2 x 1.5V AA</td> </tr> <tr> <td>Receiver</td> <td>240V AC 50Hz for AC Adaptor Supplied with the set</td> </tr> </table> <p>Installation: Installation. Must include all the compatible wires, casing, wiring and fixing. Must include all the electrical fittings, wiring and fixing required for installation.</p>			Description	High quality UHF band frequency duet Wireless Microphone System. One handheld microphone and One Lapalier microphone.	Receiver	Dual Channel Non-Diversity	Frequency response	50Hz-16KHz	Polar Pattern (Hand mic)	Cardioid	Output	Individual Channel: XLR Mix out: ¼" Jack	Power Req. (Hand mic)	2 x 1.5V AA	Receiver	240V AC 50Hz for AC Adaptor Supplied with the set
Description	High quality UHF band frequency duet Wireless Microphone System. One handheld microphone and One Lapalier microphone.																	
Receiver	Dual Channel Non-Diversity																	
Frequency response	50Hz-16KHz																	
Polar Pattern (Hand mic)	Cardioid																	
Output	Individual Channel: XLR Mix out: ¼" Jack																	
Power Req. (Hand mic)	2 x 1.5V AA																	
Receiver	240V AC 50Hz for AC Adaptor Supplied with the set																	
10	Multimedia Projector	<p>Item 6.1: Multimedia Projector Make: NEC/Epson/Panasonic/Sony Qty: 02 (one for Career & Counselling Cell, one for HRD building) Specification: POWER DEVICE Type: power supply Nominal Voltage: AC 120/230 V Frequency Required: 50/60 Hz Power Consumption Operational: 248 Watt INTERFACE PROVIDED Connector Type: 15 pin HD D-Sub (HD-15), 19 pin HDMI Type A, 4 pin USB Type A, 4 pin mini-DIN, 9 pin D-Sub (DB-9), RCA, RCA x 2, RJ-45, mini-phone stereo 3.5 mm DISPLAY Image Brightness: 3000 Image Contrast Ratio: 2000:1 Image Size: 25.2 in - 299 in Projection Distance: 2 ft - 45 ft Max Sync Rate (V x H): 120 Hz x 100 kHz CHASSIS Built-in Devices speaker POWER Power Consumption Stand by / Sleep 8 Watt VIDEO INPUT Digital Video Standard: High-Definition Multimedia Interface (HDMI) Video Modes: 1080i, 1080p, 480i, 480p, 576i, 576p, 720p Analog Video Format: NTSC, NTSC 4.43, PAL, PAL 60, PAL-M, PAL-N, SECAM Analog Video Signal: RGB, S-Video, composite video Video Interfaces: HDMI, S-Video, VGA, composite video TV System: NTSC, SECAM, PAL, PAL-N, PAL-M, NTSC 4.43, PAL 60</p>																

		<p>ENVIRONMENTAL PARAMETERS Min Operating Temperature: 41 °F Max Operating Temperature: 104 °F Sound Emission (Economic Mode): 27 dB</p> <p>OPERATION Lamp Type: 180 Watt Lamp Life Cycle: Up to 5000 hour(s) / up to 6000 ns (economic mode) Compatibility: Mac, PC</p> <p>PROJECTOR Class: digital projector Recommended Use: presentation and multimedia Type: LCD projector Portability: portable Min Image Size: 25.2 in Max Image Size: 299 in Native Resolution: 1024 x 768 Max Resolution (Resized): 1600 x 1200 Display Resolution Abbreviation: XGA Max V-Sync Rate: 120 Hz Max H-Sync Rate: 100 Hz Native Aspect Ratio: 4:3 Brightness: 3000 Contrast Ratio: 2000:1 Min Screen Distance: 2 ft Max Screen Distance: 45 ft Throw Ratio: 1.3 - 2.2:1 Controls & Adjustments: aspect control, keystone correction Projector Features: Advanced AccuBlend technology, Auto Vertical Keystone, AutoSense technology, Color Management System, Deep Color, Eco-Mode technology, JPEG photo playback, Micro Lens Array (MLA) Technology, freeze frame, wall color correction</p> <p>AUDIO OUTPUT Type: speaker(s) Sound Output Mode: mono Form Factor: integrated Output Power / Channel: 10 Watt</p> <p>PROJECTOR LENS SYSTEM Focus Type: manual Lens Aperture: f/1.7-2.2 Zoom Factor: 1.7x Keystone Correction Type: digital Keystone Correction Direction: vertical Vertical Keystone Correction: -30 / +30</p> <p>SOFTWARE Type: Drivers & Utilities</p> <p>SERVICE & SUPPORT Type 2 years warranty</p> <p>CABLES: One 15 Mtr VGA cable One 15 Mtr HDMI Cable One 15 Mtr Power Cable</p> <p>MOUNTING: One Ceiling Mounting Kit</p> <p>INSTALLATION: Installation with all fixings and casings</p>
11	Retractable Projector	Qty: 02 (one for HRD Building, one for Career Counselling Cell) Specification:

	Screens	Size: 8x6 ft Type: Wall & Ceiling Projector Screen Autolock: Yes With Installation
12	<u>White boards</u>	Qty: 02 (one for HRD Building, one for Career Counselling Cell) Make: Kores/Sigma Specification: Size: 6x4 ft Type: Non Magnetic With Installation
13	CCTV Surveillance System	<p>Item 10.1: CCTV Surveillance System <i>Components, Quantity & Specification:</i></p> <p>Component: 16 Ch POE NVR With 2 TB HDD Make: HIKVISION/PELCO/BOSCH Qty: 01 Specification:</p> <ul style="list-style-type: none"> • Up to 6 Megapixel Resolution Recording • 160 Mbps Incoming Bandwidth • Supports H.264+ and H.264 • Synchronous HDMI and VGA Output 1920 × 1080p Resolution • 16-ch Network Cameras Can Be Connected • Up to 2 SATA Interfaces • Plug & Play w/Up to 16 Independent PoE Network Connections • Supports Network Detection, Including Network Delay, Packet Loss • Alarm and Audio I/O <p>Component: 1 KVA UPS (for NVR) Make Emersson/ Libert/ NUMERIC Qty: 01</p> <p>Component: 4U Network Rack With PDU (for NVR & UPS) Make NETRACK/VALRACK/APW/RITTAL Qty: 01</p> <p>Component: 2 MP Fix Bullet IR IP Camera Make: HIKVISION/PELCO/BOSCH Qty: 03 Specification:</p> <ul style="list-style-type: none"> • 1/2.8" Progressive CMOS • ICR, 0lux with IR, 1920 × 1080:25fps(P)/30fps(N) • 4mm/F2.0 lens (6/8/12mm optional) • H.264&MJPEG, IP67, DWDR, 3D DNR, BLC • IR range: up to 30m, DC12V and PoE (802.3af) *power supply not included • Wall-Mounted Bracket Included <p>Component: Communication cable CAT6 UTP LHZS 24 AWG Make : AMP/SYSTIMAX/COMSCOPE/PONDUIT Qty: 1 roll</p> <p>Component: 2" PVC casing capping Make :Precisson/ Legrand/MK/Honeywell Qty: 30</p> <p>Installation: Installation with all cabling, underground cabling (if necessary), commissioning sign writing testing and report generation and submission charges Qty: 1 job</p>

19	<u>Photocopier</u>	<p>Item 16.1: Photocopier Make: Canon/Toshiba/Brother</p> <table border="1"> <tr> <td>Type of Machine</td> <td>Multifunction Machine</td> </tr> <tr> <td>Print Technology</td> <td>Laser</td> </tr> <tr> <td>Cartridge Technology</td> <td>With Separate Drum and Toner</td> </tr> <tr> <td>Type of Printing</td> <td>Colour</td> </tr> <tr> <td>Platen/Flatbed Size</td> <td>A3</td> </tr> <tr> <td>Paper Size (Original/Image)</td> <td>A3/A3/A4</td> </tr> <tr> <td>RAM size (MB)</td> <td>2048</td> </tr> <tr> <td>Hard Disk Capacity(GB)</td> <td>0</td> </tr> <tr> <td>Minimum Speed per Minute in A4 Size-Mono (PPM)</td> <td>20</td> </tr> <tr> <td>Minimum Speed per Minute in A4 Size-Colour (PPM)</td> <td>20</td> </tr> <tr> <td>Minimum Speed per Minute in A3 Size-Mono(PPM)</td> <td>15</td> </tr> <tr> <td>Minimum Speed per Minute in A3 Size-Colour(PPM)</td> <td>15</td> </tr> <tr> <td>Scanning Feature Availability</td> <td>Yes</td> </tr> <tr> <td>Duplexing Feature Availability</td> <td>Yes</td> </tr> <tr> <td>Networking Feature Availability</td> <td>Yes</td> </tr> <tr> <td>If yes, Network Interface</td> <td>Ethernet 10/100/1000</td> </tr> <tr> <td>Faxing Feature Availability</td> <td>No</td> </tr> <tr> <td>Speed of Fax, If Fax Feature is available</td> <td>NA</td> </tr> <tr> <td>Original Feed Type</td> <td>Platen</td> </tr> <tr> <td>Feeder Capacity (Number)</td> <td>0</td> </tr> <tr> <td>Wi-Fi Capability</td> <td>Yes</td> </tr> <tr> <td>If yes,Wi-Fi Type</td> <td>Wi fi 802.11 b/g/n & Wi Fi Direct</td> </tr> </table>	Type of Machine	Multifunction Machine	Print Technology	Laser	Cartridge Technology	With Separate Drum and Toner	Type of Printing	Colour	Platen/Flatbed Size	A3	Paper Size (Original/Image)	A3/A3/A4	RAM size (MB)	2048	Hard Disk Capacity(GB)	0	Minimum Speed per Minute in A4 Size-Mono (PPM)	20	Minimum Speed per Minute in A4 Size-Colour (PPM)	20	Minimum Speed per Minute in A3 Size-Mono(PPM)	15	Minimum Speed per Minute in A3 Size-Colour(PPM)	15	Scanning Feature Availability	Yes	Duplexing Feature Availability	Yes	Networking Feature Availability	Yes	If yes, Network Interface	Ethernet 10/100/1000	Faxing Feature Availability	No	Speed of Fax, If Fax Feature is available	NA	Original Feed Type	Platen	Feeder Capacity (Number)	0	Wi-Fi Capability	Yes	If yes,Wi-Fi Type	Wi fi 802.11 b/g/n & Wi Fi Direct
Type of Machine	Multifunction Machine																																													
Print Technology	Laser																																													
Cartridge Technology	With Separate Drum and Toner																																													
Type of Printing	Colour																																													
Platen/Flatbed Size	A3																																													
Paper Size (Original/Image)	A3/A3/A4																																													
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If yes, Network Interface	Ethernet 10/100/1000																																													
Faxing Feature Availability	No																																													
Speed of Fax, If Fax Feature is available	NA																																													
Original Feed Type	Platen																																													
Feeder Capacity (Number)	0																																													
Wi-Fi Capability	Yes																																													
If yes,Wi-Fi Type	Wi fi 802.11 b/g/n & Wi Fi Direct																																													

		Number of Main Tray(Number)	2
		Total Main Tray Capacity	1100
		Bypass Facility	Yes
		Bypass Tray Capacity	100
		Yield of the cartridge/Ink Tank/Ink Pack (for C, M, Y & K individually) supplied with Machine(Number of prints)	C-19000, M- 19000, Y-19000, K-36000
		Life of Drum in terms of number of Prints in case of Separate Drum and Toner cartridge technology(Number of Prints)	C-54000, M- 54000, Y-54000, K-69000
		Duty Cycle/Month (Number of Prints)	77000
		BIS Registration under CRS of Meity	Yes
		BIS Registration Number	R-41001252
		Operating Temperature Range (Degree C)	30 degree Celsius
		Operating Humidity (%RH)	20
		On Site OEM Warranty (Year)	1
22	Wi fi Router		
23	Podium	Make: Godrej	
24	Executive Chair	Make : Godrej High Back (Premier)	
25	Dining Table	Stainless steel, Six seater-72" x 35" x 30" (304 Grade) fixed seat system	
26	Chair with Arm Desk	Make : Godrej Training & Learning chair (7004 with Desklet).	
27	Reading Table with Chair	Make : Godrej Table: Talk Unitized (14 seated) Chair: Kareena (Visitor)	
28	Book Self/ Book Case	Make : Godrej Four Door Book Case .	
29	Sensor:	Over head tank	

30	Lightening Arrestor	150/ATS TP (Protection radius 150 m in level 111/130 m in level 11/110 in Level at 3m height) 100/ATS TP (Protection radius 100 m in level 111/90 m in level 11/80 in Level at 3m height) 80/ATS TP (Protection radius 80 m in level 111/70 m in level 11/65 in Level at 3m height) 55/ATS TP (Protection radius 55 m in level 111/40 m in level 11/35 in Level at 3m height) 45/ATS TP (Protection radius 45 m in level 111/38 m in level 11/20 in Level at 3m height) 35/ATS TP (Protection radius 35 m in level 111/28 m in level 11/15 in Level at 3m height)
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TERMS AND CONDITIONS

1. Due regard shall be given to the following factors in addition to the evaluated price of the material under consideration.
 - i. Efficiency and running cost
 - ii. Durability of material
 - iii. Reliability and guarantee of quality
 - iv. Necessity of repairs and alterations
 - v. Technical qualifications, financial standing and general reputations of the manufacturer/ supplier
2. Orders will be placed by us when required.
3. Delivery should be made within 4 weeks from the date of receiving the order failing which penalty @1% of the order will be imposed for each week of delay or part thereof.
4. The rate finalized by this tender shall remain valid ordinarily during the financial year. However North Orissa University reserves the right to go in form fresh tenders on the basis of the market condition.
5. Payment will be made after installation of the item.
6. Financial bids will be considered only after fulfilling the technical bids .


Registered
North Orissa University