



RAJ RISHI BHARTRIHARI MATSYA UNIVERSITY, ALWAR

(Temporary Office : Girls Hostel Building, Babu Shobha Ram Govt. Arts College Campus, Alwar)

Phone : 0144-2730321, 2730327, 2980046 FAX : 0144-2730321

Website : www.rrbmuni.ac.in



No. : RRBMU/ALW/ GRAD /2024/ 1421

Date : 09/07/2024

Notice Inviting E-Tender 06/2024-25

RAJ RISHI BHARTRIHARI MATSYA UNIVERSITY, ALWAR hereby invites E-bid for Work in Ground Floors of Examination and Administrative Block through reputed manufacturer/authorized resellers/service providers/system integrator etc. The bid may be downloaded From 11-07-2024 AT 11:00 AM and the last date of submission of the bid 05-08-2024 AT 04:00 PM Details of the same may be seen on www.eproc.rajasthan.gov.in or www.sppp.rajasthan.gov.in or University website www.rrbmuni.ac.in


Registrar



RAJ RISHI BHARTRIHARI MATSYA UNIVERSITY, ALWAR

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No. RRB MU / ALW / E-TAD / 2024 / 1422

Date: 09/07/24

Notice Inviting E-Tender

RAJ RISHI BHARTRIHARI MATSYA UNIVERSITY, ALWAR, Alwar invites e-tender/bid under Rajasthan Transparency in Public Procurement Act, 2012 & Rules, 2013 for work from experienced, technically and financially sound & reputed bidders fulfilling eligibility criteria through e-tendering system as described in the bid document as listed below:-

Sno.	Scope of Work	Estimated Cost of the Project	Tender Fees (Non Refundable)	EMD Amount	Work completion Time
1	Work Of Interior, Furnishings and Digitization at Ground Floor of Administrative and Examination Block at New Campus of RRB MU, Alwar, Rajasthan.	Rs. 6,09,13,695/- (Taxes as applicable will be extra)	Rs. 10,000/-	Rs.12,18,274/-	04 Months

Dates for downloading and submitting the e-tender are as follows: -

Date and time of downloading bid documents	11/07/2024 at 10:00 AM to 05.08.2024 at 03:00 PM
Pre Bid Meeting	15/07/2024 at 11:00 AM
Date and time of on-line submission of bid	16/07/2024 at 10:00 AM to 05.08.2024 at 03:00 PM
Last date of physical submission of EMD	05/08/2024 at 03:00 PM
Date and time of On-line opening of Technical Bid	05/08/2024 at 04:00 PM

SECTION-1 instructions to bidder: -

1. The bid documents, terms and conditions may be seen and downloaded from the website www.eproc.rajasthan.gov.in, www.sppp.raj.nic.in, www.rrbmuni.ac.in.
2. The interested bidder must submit their on-line bids along with separate Demand Draft for Tender Fees which is non-refundable and EMD in form of Demand Drafts/FD/BG in favor of "Registrar, RRB MU" payable at Alwar.
3. The above demand draft/FD/BG must reach physically in the office of Registrar, RRB University Alwar, on or before last date as mentioned above, failing which bids shall not be considered.
4. The bidders can also submit their hard copies of Tender fees and EMD in one sealed envelope through speed post/registered post/courier services/by hand at our office address "Temporary Office: Girls Hostel Building, Babu Shobha Ram Govt. Arts College Campus, Alwar". The hardcopies must reach before the last date of the bid.
5. Bidders having digital signature certificate (DSC) as per IT Act, 2000 to sign their electronic bids shall submit their offer on-line on www.eproc.rajasthan.gov.in with in stipulated time and date mentioned herein above. Bids shall not be accepted personally. The bids will be

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opened on the same date and time as mentioned above.

6. In the event of the specified dates being a holiday, the activities assigned on that date may be carried out on next working day on the same time.
7. The Vice Chancellor of Raj Rishi Bhartrihari Matsya University, Alwar is not bound to accept the lowest bid and may reject a bid or any part of the bid without assigning any reason thereof.
8. Bids received after the prescribed time and date will not be considered.
9. The Price Bid / commercial bid for all the items must be submitted online only.
10. Tenders without tender fees, earnest money deposit (EMD) will not be considered.
11. Prices should be quoted FOR and inclusive of all taxes and levies and including installation and commissioning.
12. The successful tenderer shall furnish Bank Guarantee/Performance guarantee/FD which will be equal to 3% of the work order value within 10 days from the receipt of Purchase/supply order, which will be returnable within 30 days after completion of the warranty period, failing which 3% of the purchase order value will be withheld for the period of the Guarantee/warranty.

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Raj Rishi Bhartrihari Matsya University

Section-2 Detailed Technical Specifications and scope of work

Administrative Block, Ground Floor

S.No	Items Name	Detailed Specification	Qty Per Room	Qty (Actual Nos. of Rooms)	UOM
Classrooms					
Room Size : 9115X4500					
Total Rooms : 8 Nos.					
1	Wooden Partition for Classrooms	Providing & fixing of 50mm wooden wall partition which is fabricated from MS pipe/ tube of 25mm X 25mm @ 2'0" cc, made up of 12mm commercial plywood both side which is duly finished with laminated sunmica of 0.8mm - 1.0mm having a glass panel(Wherever Required/Necessary) of thickness 6mm Total Nos of Partitions : 4 Nos. for size 9115X3300	1400	1400	Sq. Ft.
2	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9mm-12 mm grid system as per room requirement (NRC)	470	3760	Sq. Ft.

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		0.5 or more) and supports as required.			
3	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.	12	96	Nos.
4	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	7	56	Nos.
5	Classroom Chairs with Writing Pad	Chair Type : Without Arms Type of Seat and Backrest : Perforated M S Sheet of 0.8 mm thickness Frame Material : Mild Steel Pipe of diameter 25 mm and wall thickness 1.1 mm minimum Writing Pad Material : The chair shall be supplied with folding writing pad made of 18mm thick particle board with 0.8mm edge lipping	42	336	Nos.

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6	White Board	Providing and fixing Size- 1800mmx1200mm, White Marker Board with Aluminium anodized Frame with resin coated sheet surface with honey comb core matl.& back with zink coated steel sheet with aluminium frame.	24	192	Sq. Ft.
7	Teacher Table	Supplying and placing executive table in knock down condition with an overall size 1200mm X 600mm X 750mm that is to be assembled at site. The worktop shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The table top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on MS/CRCA rectangle pipe frame having cross-section area 25mm X 25mm with 1.2mm thick. The table understructure shall be supplied with MS pipe having 25mm X 25mm with 1.2mm thick. 1 nos. footstep shall be provided between both side leg with the same size i.e 25mm X 25mm with 1.2mm thick. The table shall be clad with modesty panel. It should be 1mm thick X 150mm (W) made up of CRCA sheet. Fixed pedestal unit shall be supplied with 1 nos. of drawer at one side. The drawer shall be central locking mechanism by one single key. The drawer shall be operated with recessed handle. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership & AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity.	1	8	Nos.

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		bending tested as per IS 2380.			
8	Teacher Chair	Providing and supplying mid back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience moulded polyurethane foam 50mm thick having density 50kg/m ³ with fabric tapestry 0.6mm thick and 235 GSM and the back shall be made of metal bright bar upholstered with breathable mesh tapestry. The backrest of the chair shall be made by keeping the natural curvature of the spine with cushion base lumbar support. The seat and back shall be arrested together with 50-60 μ thick powder coated HR steel spine and the armrest shall be used injection moulded polypropylene loop arm completely joint with seat. For seating durability the chair shall have push back 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with	1	8	Nos.

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		BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 460 ± 10 mm(W) X 455 ± 10 mm(D) and back size shall be 550 ± 10 mm(H) from seat & overall height = 990 ± 10 mm.			
9	Podium	Podium- Overall Dimension: W-600mmX D-450mmX H-1260mm: - 200mm wide Leg section made of M5 section and MS cold rolled close annealed covers for wire management. Top made up of 18mm the prelaminated partial board with teak wooden edge banded on edges. One edge protruded up, would be of teak wood to hold the paper / books. All metal section powder-coated with min. 45 micron DFT after anti corrosion surface treatment.	1	8	Nos.
10	Interactive Flat Panel Display (IFPD-65inches)	Screen size 65" Resolution UHD 3840×2160 pixels Brightness (typical) 500 nits Contrast ratio (typical) 5000:1 Response time 2 ms Light life (typical) 50,000 hrs Smart Eye Interactive display should have smart	1	8	Nos.

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protection	eye protection.
Auto Brightness Control	Interactive display should have inbuilt Light sensor to control brightness automatically based on ambiance light.
Glass	
Hardness	4 mm tempered AG Glass
Anti-glare coating	Interactive display should have Anti-glare coating
Touch screen	
Touch technology	Infrared touch
Touch points	20 touch points
Touch response time	< 4 ms
System	
CPU	Quad core 1.9 Ghz.
Memory	8GB DDR3/DDR4
Storage	64GB and expandable up to 512 GB
OS	Android 11.0
Input/ Output ports	
Input Ports (minimum)	3 x HDMI, 1x DP, 1x VGA, 1x YBPR In, 1 x AV (3.5mm), 1x Mic in (3.5mm), 1x PC Audio In, 1 x TF card (Micro SD), 1 x Slot-in PC (OPS)
Output Ports (minimum)	1 x HDMI, 1 x AV (3.5mm), 1x Earphone, 1x SPDIF
USB Ports (minimum)	5 x USB 3.0 Type A, 2 x USB Type C, 2 x USB Type B (touch)
Communication Ports (minimum)	1x RS232 In, 2 x RJ45 10/100/1000 Gigabit ethernet port (In & Out)
Built-in peripherals	
Speaker	Stereo Sound with in-built 25 Watt x 2 speakers and subwoofer of 25 watt
Magnetic pen holder	Should have inbuilt magnetic pen holder with up to two pens
Tutor friendly experience	Should have control buttons on Interactive display like Volume UP/Down, Home, Back, Menu, Touch on/off & Power Buttons for ease in teaching.

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Quiz	Should have in built tool to allow participants to submit answers from their Smart Phones (Answering/Voting/Messaging)	
Smart Multimedia Port	Should have Built in Type-c multimedia port on front side to deliver Video, Audio, Touch control, Internet Sharing and Fast charging of up to 65 watt using a single USB type C cable	
SD Card Support	Should have provision to connect SD card supports up to 512 GB of Storage	
SIM Card Module	Interactive Display should have inbuilt Sim card module to support 3G/4G Sim cards	
Built in Wi-fi	Should have inbuilt Dual band Wi-fi (2.4 & 5Ghz)	
Built-in Hotspot	Should have inbuilt Hotspot Dual band (2.4 & 5Ghz) with internet sharing across the connected devices	
Built-in Bluetooth	Should have inbuilt Bluetooth version 5.0 or latest	
Stylus	Should have minimum 2 Nos of Stylus	
Remote control	Should have remote control to operate the interactive display	
Software		
Whiteboard Interactive Software	Should have inbuilt whiteboard software for teaching/ training using Interactive display with features like AI Pen, Shape Pen, Handwriting Recognition, Sticky Notes, E-mail and others like (Pen, thickness of pen, colours of pen, Pixels eraser and Region eraser, Shapes (Circle, Triangle, Rectangle, arrows), Magnifier, Background of White board (multiple colours also use picture, shape), Redo/Undo, Next/Previous, Select & Drag option, Switching between single touch and multiple touch, Clear screen, List of pages with deleting option, Switching tool bar right to left, Many other Tools (Compass, Protector, Insert Table, Calculator, Curtain, Timer, Calendar, Camera, Spotlight, Multiscreen (divide board in 2,3, and 4 parts with background colour and	

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	<p>different pen colour), on screen annotation. Quiz results should be imported into whiteboard application Interactive software should be of the same OEM. Interactive software of the interactive Display should detect the Visual Presenter/ Visualiser and should be able to annotate on the image captured by the Visual Presenter/ Visualiser.</p>	
Wireless screen sharing	Interactive display should allow user to share/mirror the content of Laptop/Desktop and mobile device(Android) wirelessly and should have Screen Share software to show up to 4 Multiple screen at same time.	
Quick access tool	Floating Tool should be available on all screen for quick access tools and same should be customized as per user requirement.	
Play Store Support	Should have Built in Google Play store to download applications direct from Play store	
YouTube	Should have Built in YouTube application and should support up to 4K resolution.	
Inbuilt Cloud drive	Interactive display should have inbuild cloud drive access from Google drive & one drive	
Software based Video conferencing	Device should support software based VC with internal android platform like Google meet, Cisco WebEx , Skype, Microsoft teams & zoom applications.	
Multiple controlling menu	Should have Multi Controlling menu including Side menu, floating menu and pull up menu.	
Gesture Control	Should have gesture control like Hold five fingers on screen for Interactive display sleep mode, hold and move three fingers on screen for Floating menu & swipe the screen Upside for Pull up menu control.	

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Split Screen	Interactive display should have inbuilt split screen user should be able to split the screen to operate multitask like play a video in half of screen and open whiteboard in other half side.
Smart USB Port	All USB 3.0 port should support Smart USB sharing for Android, Internal PC or other External PC / Device
Multilanguage GUI	Device should have GUI interface in both Hindi and English Language
Virtual Keyboard	Device should have inbuilt virtual keyboard with English to Hindi writing support.
Enhanced Security	Should have provision to lock all the USB port, Screen Lock, application lock to restrict unwanted access.
Touch On/Off Button	Should have provision for Touch On/Off on front of Display
Sound enhancement	Should have inbuilt Volume equalizer and surround sound support to enhance the sound quality.
Screen Recording	Should have built in Screen recording feature supports up to full HD resolutions
Screen Shot	Should have built-in screen shot option using single click
Power	
Power	AC 100-240V 50/60Hz
Maximum Power Consumption	250 W
Standby Power Consumption	<0.5 W
Environment	
Operating temperature	0°C ~ 45°C
Operating Humidity	10% ~ 80% RH Non-Condensing
Accessories	Wall mount Kit, 1x HDMI Cable (1.5 Meter), 1x USB A to B cable (1.5 Meter), 1x Power Cable (1.5 Meter)
Certifications	BIS certification required
Technical Specifications for OPS	
Parameter	Specifications

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Type Detachable	PC module		
CPU Intel Core	i5 10th Generation		
RAM	8 GB		
SSD	256 GB		
Operating system	Windows10		
I/O Ports	HDMI x 1, USB ports x 4, LAN Port x 1		
Max Power	50W or less		

Books Storage Area

Room Size: 9115 X 7430

Total Room : 1 Nos.

1	Library Racks (Double Sided- Main Unit)	Providing, supplying and placing double side steel Library Racks in perfectly upright and straight position. The overall size of the rack shall be 940mm (W) X 600mm (D) X 2110mm (H). The rack shall be supplied with 4 nos. of adjustable shelves on both side i.e. 10 loading levels. Rack, side panel, skirting shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Side and top shall be covered with 18mm thick Pre-laminated particle board of grade II of IS 12823. The edges of the board shall be sealed with 2mm thick PVC edge banding. The add-on units can be stacked width wise to form a bank of racks having common side panel. The shelves shall be folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly Distributed load capacity per each shelf shall be 80kg maximum. Each shelf shall be provided with stiffener at bottom for strength and back stiffener for separator between front and rear shelf. All steel components shall be epoxy polyester powder coated to the thickness of 40-60 μ . Adjustable leveller shall be provided with metal insert to resist scratches on the floor and also level & support structure.	10	10	Nos.

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2	Library Racks (Double Sided- Add on Unit)	Providing, supplying and placing double side steel Library Racks in perfectly upright and straight position. The overall size of the rack shall be 940mm (W) X 600mm (D) X 2110mm (H). The rack shall be supplied with 4 nos. of adjustable shelves on both side i.e. 10 loading levels. Rack, side panel, skirting shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Side and top shall be covered with 18mm thick Pre-laminated particle board of grade II of IS 12823. The edges of the board shall be sealed with 2mm thick PVC edge banding. The add-on units can be stacked width wise to form a bank of racks having common side panel. The shelves shall be folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly Distributed load capacity per each shelf shall be 80kg maximum. Each shelf shall be provided with stiffener at bottom for strength and back stiffener for separator between front and rear shelf. All steel components shall be epoxy polyester powder coated to the thickness of 40-60 μ . Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level & support structure.	20	20	Nos.

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3	Table for Room In-Charge	<p>Supplying and placing executive table in knock down condition with an overall size 1200mm X 600mm X 750mm that is to be assembled at site. The worktop shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The table top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on MS/CRCA rectangle pipe frame having cross-section area 25mm X 25mm with 1.2mm thick. The table understructure shall be supplied with MS pipe having 25mm X 25mm with 1.2mm thick. 1 nos. footstep shall be provided between both side leg with the same size i.e 25mm X 25mm with 1.2mm thick. The table shall be clad with modesty panel. It should be 1mm thick X 150mm (W) made up of CRCA sheet. Fixed pedestal unit shall be supplied with 1 nos. of drawer at one side. The drawer shall be central locking mechanism by one single key. The drawer shall be operated with recessed handle. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership & AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.</p>	1	1	Nos.

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			1	1	Nos.
4	Chair for Room-Incharge	Providing and supplying revolving chair. The seat shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 45kg/m ³ and the back shall be made up of plastic inner padded with high resilience moulded polyurethane foam 50mm thick having density 50kg/m ³ . The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The back of the chair shall be supplied with polypropylene outer cover. The seat and back shall be arrested together with powder coated HR steel spine covered with PP bellow. The armrest shall be used polypropylene arm completely joint with seat. For seating durability the chair shall have revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standard. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castor. The castor of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 430±10 mm(D) X 465±10 mm(W) and back size shall be 415±10 mm(W) X 400±10 mm(H) from seat. Overall height shall be = 830±10 mm, base width/ depth = 710±10 mm.			
5	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9mm-12 mm grid system as per room requirement (NRC 0.5 or more) and supports as required.	767	767	Sq. Ft.

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6	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350lm Material: Aluminum.	12	12	Nos.
7	Wall Fans	Mounting Type: Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	6	6	Nos.
8	Air Conditioner	SITC of Air Conditioner of 3Star 1.5 Ton <ul style="list-style-type: none"> • Feature Support 1.5 Ton Capacity • Feature Support Auto Restart • Feature Support Front Panel Display • Feature Support Rotary Compressor with Copper Fins • Installation Complete installation with Copper Pipes, Cables etc. 	2	2	Nos.

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9	Computers	Processor : 12th Generation Intel® Core™ i5-12600, 18MB cache, 6 cores, 12 threads, 3.30GHz to 4.80GHz, 65W Chipset : Intel B660 Chipset Graphics: Integrated UHD Graphics 700 series compatible with processor. Memory: 8 GB DDR4 RAM 3200 MHz expandable up to 64 GB with min 2 DIMM Slots Ports : 1 RJ-45 port 10/100/1000 Mbps , 8 USB Ports (Min. 4 USB 3.2 ports), 1 Universal Audio Jack, 1 DisplayPorts 1.4, 1 HDMI 1.4b Slots : 3 full-height PCIe Gen 3 slots (Min. 1 full height PCIe x16) , 2 M.2 slots (Wireless + Storage) Primary Hard Drive : 512 GB M.2 PCIe NVMe SSD Display : 19.5" display with 1600 x 900 resolution LAN : Integrated Gigabit Ethernet LAN 10/100/1000 WLAN : Wi-Fi 802.11.ac + Bluetooth 5.0 Form Factor : Tower with Intrusion Switch not more than 14.9 Ltr Power Supply : 180W internal power supply unit (PSU), 85% Efficient Mouse : USB Keyboard (same make as pc) Keyboard : USB Keyboard (same make as pc) Operating System : Windows 11 Pro 64 Bit Security : Discrete TPM 2.0 (Hardware) Certification : Energy star 6.0, EPEAT India Certified for Desktop & TCO 8.0 for Monitor, MIL-STD 810 G (min.11)Test passed, ISO 9001:2008 certification BIOS : Configuration Tool to Enable these features in a single Tool power on password, set up password , USB port disable with life cycle management tool Support : Drivers should be available for download from OEM site for at least 3 years from the date of the purchases order. (drive cab to be available in	1	1	Nos.

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Data Center Cum E-Library

Room Size: 6600 x 9230

Total Room : 1 Nos.

						Sq. Ft.
1	PVC Wall Panels	Supply and Installation of PVC wall panels on all walls with decorative laminated sheet, single faced, other side suitable for fixing on wall. The Polyvinyl chloride panel should have durable soating and corrision resistant. The honeycomb panel shuld be 4-5mm thick.	1170	1170		
2	Flooring	Providing and Layering of Jute Carpet Roll of size 2Mtr x 30 Mtr as per the approved shades by the department. The carpet will be fixed on the floor with proper Adhesive.	700	700		Sq. Ft.
3	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9mm-12 mm grid system as per room requirement (NRC	700	700		

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		0.5 or more) and supports as required.			
4	Paint and Polish	Providing & applying on all exposed surface of ceiling, etc., Plastic Emulsion Paint of 'Asian Paints', 'Nerolac' or equivalent make as per the manufacturer's specification with a brush & roller. Base coat of approved primer before applying two coats of paint. Painting of wall with minimum of 2 coats of plastic emulsion paint of approved shade and make of the wall, Columns, Beams, Plywood or Gypboard including all necessary surfaces preparation. The wall shall be cleaned, filled with putty & applied with one coat of primer so as to achieve an even surface to apply paints.	1	1	Job
5	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.	18	18	Nos.

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6	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	8	8	Nos.
7	Electrical Work	Providing, fixing, testing and replacement work of room with new material, which includes complete wiring work, MCB, Main junction Box, DB replacing, Power function, Main supply box, Power Cable, Power switches, Switches & Sockets for LED lights and Fans, Copper wire, Drainage pipe and power cable for AC, Electrical Conduit, etc.	1	1	Job
8	Work Station	Supplying & Placing Single Seater Workstation in completely knock down conditions with an overall size 900mm X 600mm X 1050mm. that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The table top shall be made up of 25mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The Workstation top profile shall be in rectangle shape with the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The table shall be supported on particle board side panel and front panel of height 1050mm, made of 18mm Prelam Particle board with PVC edge banding tape. The Workstation is having metal wire carrier	30	30	Nos.

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		of height 100mm with powder coated. A pullout keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 550mm X 300mm. The tray shall be operated on sliding channel. There shall be buffers provided at the base to avoid scratches on the floor. The table connections have to be made in such a way that no gap should be in between.			
9	Chairs for Work Station	Supplying and placing mid back chair with ergonomic design and GREENGUARD Certified. The seat and back shall be made of 15mm thick hot pressed commercial plywood and plastic inner respectively padded with high resilience moulded polyurethane foam 40mm thick having density 40kg/m ³ in seat and 25mm thick having density 32Kg/m ³ in back. The same shall be upholstered with fabric tapestry 1mm thick and 300GSM. The back and base of the chair shall be supplied with injection moulded PP/ABS cover. The seat and back shall be arrested together with 50-60 μ dry film thick powder coated HR steel spine covered with plastic bellow. The armrest shall be used one piece injection moulded polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA	30	30	Nos.

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		X5.1-2011 standard. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle dia. 650 mm fitted with 5 nos. twin wheel castor. The castor of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 tested to perform 98,000 cycles with 250!bs load. The seat size shall be 465±10 mm (D) X 480±10 mm (W) and back size shall be 435±10 mm (W) X 560±10 mm (Ht) from seat. Overall height shall be = 1025±10 mm, overall width = 615±10 mm.		
10	Teacher Table	Providing and supplying executive table with an overall size 1200mm X 600mm X 750mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on CRCA C-frame with 0.9mm thick duly powder coated. The under structure shall consist of MS/CRCA rectangle pipe frame having cross-section area 38mm X 25mm with 1.2mm thick. Fixed top supporting pedestal shall be supplied at one side of the table. The pedestal shall be made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS:513. It should have 3 nos. of drawer i.e. 2 box	1	1

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		and 1 filing. It should be operated on ball bearing sliding channel and recessed plastic handle with centralized locking mechanism. The table shall be clad with half modesty panel. There shall be leveller provided at the bottom. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership & AIOTA certification.			
11	Teacher Chair	High back chair with ergonomic design, comfortable & aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m ³ in seat and 40mm thick having density 32Kg/m ³ in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide lumbar support. The seat and back shall be arrested together with 50-60 μ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards.	1	1	Nos.

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12	Interactive Flat Panel Display (IFPD-65inches)	1	1	Nos.
Screen size	65"			
Resolution	UHD 3840 x 2160 pixels			
Brightness (typical)	500 nits			
Contrast ratio (typical)	5000:1			
Response time	2 ms			
Light life (typical)	50,000 hrs			
Smart Eye protection	Interactive display should have smart eye protection.			
Auto Brightness Control	Interactive display should have inbuilt Light sensor to control brightness automatically based on ambiance light.			
Glass				
Hardness	4 mm tempered AG Glass			
Anti-glare coating	Interactive display should have Anti-glare coating			
Touch screen				
Touch technology	Infrared touch			

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Touch points	20 touch points
Touch response time	< 4 ms
System	
CPU	Quad core 1.9 Ghz.
Memory	8GB DDR3/DDR4
Storage	64GB and expandable up to 512 GB
OS	Android 11.0
Input/ Output ports	
Input Ports (minimum)	3 x HDMI, 1x DP, 1x VGA, 1x YBPR In, 1x AV (3.5mm), 1x Mic in (3.5mm), 1x PC Audio In, 1 x TF card (Micro SD), 1 x Slot-in PC (OPS)
Output Ports (minimum)	1 x HDMI, 1 x AV (3.5mm), 1x Earphone, 1x SPDIF
USB Ports (minimum)	5 x USB 3.0 Type A, 2 x USB Type C, 2 x USB Type B (touch)
Communication Ports (minimum)	1x RS232 In, 2 x RJ45 10/100/1000 Gigabit ethernet port (In & Out)
Built-in peripherals	
Speaker	Stereo Sound with in-built 25 Watt x 2 speakers and subwoofer of 25 watt
Magnetic pen holder	Should have inbuilt magnetic pen holder with up to two pens
Tutor friendly experience	Should have control buttons on Interactive display like Volume UP/Down, Home, Back, Menu, Touch on/off & Power Buttons for ease in teaching.
Quiz	Should have in built tool to allow participants to submit answers from their Smart Phones (Answering/Voting/Messaging)
Smart Multimedia Port	Should have Built in Type-c multimedia port on front side to deliver Video, Audio, Touch control, Internet Sharing and Fast charging of up to 65 watt using a single USB type C cable
SD Card Support	Should have provision to connect SD card supports up to 512 GB of Storage
SIM Card	Interactive Display should have inbuilt

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Module	Sim card module to support 3G/4G Sim cards		
Built in Wi-fi	Should have inbuilt Dual band Wi-fi (2.4 & 5Ghz)		
Built-in Hotspot	Should have inbuilt Hotspot Dual band (2.4 & 5Ghz) with internet sharing across the connected devices		
Built-in Bluetooth	Should have inbuilt Bluetooth version 5.0 or latest		
Stylus	Should have minimum 2 Nos of Stylus		
Remote control	Should have remote control to operate the Interactive display		
Software			
Whiteboard Interactive Software	Should have inbuilt whiteboard software for teaching/ training using Interactive display with features like AI Pen, Shape Pen, Handwriting Recognition, Sticky Notes, E-mail and others like (Pen, thickness of pen, colours of pen, Pixels eraser and Region eraser, Shapes (Circle, Triangle, Rectangle, arrows), Magnifier, Background of White board (multiple colours also use picture, shape), Redo/Undo, Next/Previous, Select & Drag option, Switching between single touch and multiple touch, Clear screen, List of pages with deleting option, Switching tool bar right to left, Many other Tools (Compass, Protector, Insert Table, Calculator, Curtain, Timer, Calendar, Camera, Spotlight, Multiscreen (divide board in 2,3, and 4 parts with background colour and different pen colour), on screen annotation. Quiz results should be imported into whiteboard application Interactive software should be of the same OEM. Interactive software of the interactive Display should detect the Visual Presenter/ Visualiser and should be able to annotate on the image captured by the Visual Presenter/ Visualiser.		

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Wireless screen sharing	Interactive display should allow user to share/mirror the content of Laptop/Desktop and mobile device(Android) wirelessly and should have Screen Share software to show up to 4 Multiple screen at same time.	
Quick access tool	Floating Tool should be available on all screen for quick access tools and same should be customized as per user requirement.	
Play Store Support	Should have Built in Google Play store to download applications direct from Play store	
YouTube	Should have Built in YouTube application and should support up to 4K resolution.	
Inbuilt Cloud drive	Interactive display should have inbuild cloud drive access from Google drive & one drive	
Software based Video conferencing	Device should support software based VC with internal android platform like Google meet, Cisco WebEx , Skype, Microsoft teams & zoom applications.	
Multiple controlling menu	Should have Multi Controlling menu including Side menu, floating menu and pull up menu.	
Gesture Control	Should have gesture control like Hold five fingers on screen for Interactive display sleep mode, hold and move three fingers on screen for Floating menu & swipe the screen Upside for Pull up menu control.	
Split Screen	Interactive display should have inbuilt split screen user should be able to split the screen to operate multitask like play a video in half of screen and open whiteboard in other half side.	
Smart USB Port	All USB 3.0 port should support Smart USB sharing for Android, Internal PC or other External PC / Device	
Multilanguage GUI	Device should have GUI interface in both Hindi and English Language	
Virtual Keyboard	Device should have inbuilt virtual keyboard with English to Hindi writing support.	

Enhanced Security	Should have provision to lock all the USB port, Screen Lock, application lock to restrict unwanted access.	
Touch On/Off Button	Should have provision for Touch On/Off on front of Display	
Sound enhancement	Should have inbuilt Volume equalizer and surround sound support to enhance the sound quality.	
Screen Recording	Should have built in Screen recording feature supports up to full HD resolutions	
Screen Shot	Should have built-in screen shot option using single click	
Power		
Power	AC 100-240V 50/60Hz	
Maximum Power Consumption	250 W	
Standby Power Consumption	<0.5 W	
Environment		
Operating temperature	0°C ~ 45°C	
Operating Humidity	10% ~ 80% RH Non-Condensing	
Accessories	Wall mount Kit, 1x HDMI Cable (1.5 Meter), 1x USB A to B cable (1.5 Meter), 1x Power Cable (1.5 Meter)	
Certifications	BIS certification required	
Technical Specifications for OPS		
Parameter	Specifications	
Type Detachable	PC module	
CPU Intel Core	i5 10th Generation	
RAM	8 GB	
SSD	256 GB	
Operating system	Windows10	
I/O Ports	HDMI x 1, USB ports x 4, LAN Port x 1	
Max Power	50W or less	




13	Computers	<p>Processor : 12th Generation Intel® Core™ i5-12600, 18MB cache, 6 cores, 12 threads, 3.30GHz to 4.80GHz, 65W</p> <p>Chipset : Intel B660 Chipset</p> <p>Graphics: Integrated UHD Graphics 700 series compatible with processor</p> <p>Memory: 8 GB DDR4 RAM 3200 MHz expandable up to 64 GB with min 2 DIMM Slots</p> <p>Ports : 1 RJ-45 port 10/100/1000 Mbps , 8 USB Ports (Min. 4 USB 3.2 ports), 1 Universal Audio Jack, 1 DisplayPorts 1.4, 1 HDMI 1.4b</p> <p>Slots : 3 full-height PCIe Gen 3 slots (Min. 1 full height PCIe x16) , 2 M.2 slots (Wireless + Storage)</p> <p>Primary Hard Drive : 512 GB M.2 PCIe NVMe SSD</p> <p>Display : 19.5" display with 1600 x 900 resolution</p> <p>LAN : Integrated Gigabit Ethernet LAN 10/100/1000</p> <p>WLAN : Wi-Fi 802.11.ac + Bluetooth 5.0</p> <p>Form Factor : Tower with Intrusion Switch not more than 14.9 Ltr</p> <p>Power Supply : 180W internal power supply unit (PSU), 85% Efficient</p> <p>Mouse : USB Keyboard (same make as pc)</p> <p>Keyboard : USB Keyboard (same make as pc)</p> <p>Operating System : Windows 11 Pro 64 Bit</p> <p>Security : Discrete TPM 2.0 (Hardware)</p> <p>Certification : Energy star 6.0, EPEAT India Certified for Desktop & TCO 8.0 for Monitor, MIL STD 810 G (min.11) Test passed, ISO 9001:2008 certification</p> <p>BIOS : Configuration Tool to Enable these features in a single Tool power on password, set up password , USB port disable with life cycle management tool</p> <p>Support : Drivers should be available for download from OEM site for at least 3 years from the date of the purchases order. (drive cab to be available in</p>	31	31	Nos.
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		support site).			
14	Networking Facility and Power Supply.	All Systems has to be in LAN. All hardware equipment has to be supplied and setting up of LAN work has to be done. All Electrification work in labs to be established has to be done with all required material.	1	1	Job
15	UPS for Computers		31	31	Nos.
	Type:	Offline/Standby			
	Output Power Wattage:	390 W			
	Input Voltage:	140 V Output Voltage: 230 V			
	Input Frequency:	50Hz Output Frequency: 50Hz +/- 1%			
	W x H x D:	10.1 cm x 14.2 cm x 27.9 cm			
16	Printers		1	1	Nos.
	Color Output	Black and white			
	Print Speed, Black	20-25			
	Product Type	Laser Printers			
	Functions	Print scan and copy			
	Ports	1 Hi-Speed USB 2.0; 1 Fast Ethernet10/100Base-TX; Wireles 802.11b/g/n			
	Network Ready	Standard (built-in Ethernet, Wifi 802.11b/g/n)			

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	Connectivity, Standard	1 Hi-Speed USB 2.0; 1 Fast Ethernet10/100Base-TX; 1 WiFi 802.11b/g/n			
	Warranty	1 Year			
	Color Scanning	Yes			
17	Printer Table	Supplying & placing center table with an overall size 600mm X 600mm X 450mm. The top of the table shall be made up of 25mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and shade. The top profile shall be in square shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top shall be supported on MS rectangle pipe frame with cross-section area 40mm X 20mm with 1.6mm thick. The under structure shall consist of MS/CRCA four legs having Dia. 38mm at upper and 28mm at lower. There shall be co-polymer polypropylene shoe provided at the bottom to avoid scratches on the floor. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.	1	1	Nos.
18	Air Conditioner	SITC of Air Conditioner of 3Star 1.5 Ton <ul style="list-style-type: none"> • Feature Support 1.5 Ton Capacity • Feature Support Auto Restart • Feature Support Front Panel Display • Feature Support Rotary Compressor with Copper Fins • Installation Complete installation with Copper Pipes, Cables etc. 	3	3	Nos.

Book Storage Area**Room Size: 7130 X 6115****Total Room : 1 Nos.**

1.	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 12 mm grid system (NRC 0.8) and supports as required.	500	500	Sq. Ft.
2	Paint and Polish	Providing & applying on all exposed surface of ceiling, etc., Plastic Emulsion Paint of 'Asian Paints', 'Nerolac' or equivalent make as per the manufacturer's specification with a brush & roller. Base coat of approved primer before applying two coats of paint. Painting of wall with minimum of 2 coats of plastic emulsion paint of approved shade and make of the wall, Columns, Beams, Plywood or Gypboard including all necessary surfaces preparation. The wall shall be cleaned, filled with putty & applied with one coat of primer so as to achieve an even surface to apply paints.	1	1	Job
3	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.	14	14	Nos.

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4	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	6	6	Nos.
5	Electrical Work	Providing, fixing, testing and replacement work of room with new material, which includes complete wiring work, MCB, Main junction Box, DB replacing, Power function, Main supply box, Power Cable, Power switches, Switches & Sockets for LED lights and Fans, Copper wire, Drainage pipe and power cable for AC, Electrical Conduit, etc.	1	1	Job
5	Library Racks (Main Unit)	Providing, supplying and placing double side steel Library Racks in perfectly upright and straight position. The overall size of the rack shall be 940mm (W) X 600mm (D) X 2110mm (H). The rack shall be supplied with 4 nos. of adjustable shelves on both side i.e. 10 loading levels. Rack, side panel, skirting shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Side and top shall be covered with 18mm thick Pre-laminated particle board of grade II of IS 12823. The edges of the board shall be sealed with 2mm thick PVC edge banding. The add-on units can be stacked width wise to form a bank of racks having common side panel. The shelves shall be folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly Distributed load capacity per each shelf shall be 80kg maximum. Each shelf shall be provided	18	18	Nos.

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with stiffener at bottom for strength and back stiffener for separator between front and rear shelf. All steel components shall be epoxy polyester powder coated to the thickness of 40-60 μ . Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level & support structure.

Accession Room

Room Size: 2475 x 3000

Total Room: 1 Nos.

1	Table	Providing and supplying executive table with an overall size 1200mm X 600mm X 750mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on CRCA C-frame with 0.9mm thick duly powder coated. The understructure shall consist of MS/CRCA rectangle pipe frame having cross-section area 38mm X 25mm with 1.2mm thick. Fixed top supporting pedestal shall be supplied at one side of the table. The pedestal shall be made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS:513. It should have 3 nos. of drawer i.e. 2 box and 1 filing. It should be operated on ball bearing sliding channel and recessed plastic handle with centralized locking mechanism. The table shall be clad with half modesty panel. There shall be leveller provided at the bottom. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-	2	2	Nos.

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		18001:2007, BIFMA Membership & AIOTA certification.			
2	Visitor Chairs	Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m ³ in seat and 40mm thick having density 32Kg/m ³ in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60 μ thick powder coated HR steel spine and the the armrest shall be used black integral polypropylene arm completely joint with seat. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 465 \pm 10 mm(W) X 460 \pm 10 mm(D) and back size shall be 480 \pm 10 (W) X 520 \pm 10 mm(H) from seat & overall height = 960 \pm 10mm.	4	4	Nos.

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3	Air Conditioner	<p>SITC of Air Conditioner of 3Star 1.5 Ton</p> <ul style="list-style-type: none"> • Feature Support 1.5 Ton Capacity • Feature Support Auto Restart • Feature Support Front Panel Display • Feature Support Rotary Compressor with Copper Fins • Installation Complete installation with Copper Pipes, Cables etc. 	1	1	Nos.
4	Computers	<p>Processor : 12th Generation Intel® Core™ i5-12600, 18MB cache, 6 cores, 12 threads, 3.30GHz to 4.80GHz, 65W</p> <p>Chipset : Intel B660 Chipset</p> <p>Graphics: Integrated UHD Graphics 700 series compatible with processor</p> <p>Memory: 8 GB DDR4 RAM 3200 MHz expandable up to 64 GB with min 2 DIMM Slots</p> <p>Ports : 1 RJ-45 port 10/100/1000 Mbps, 8 USB Ports (Min. 4 USB 3.2 ports), 1 Universal Audio Jack, 1 DisplayPorts 1.4, 1 HDMI 1.4b</p> <p>Slots : 3 full-height PCIe Gen 3 slots (Min. 1 full height PCIe x16), 2 M.2 slots (Wireless + Storage)</p> <p>Primary Hard Drive : 512 GB M.2 PCIe NVMe SSD</p> <p>Display : 19.5" display with 1600 x 900 resolution</p> <p>LAN : Integrated Gigabit Ethernet LAN 10/100/1000</p> <p>WLAN : Wi-Fi 802.11.ac + Bluetooth 5.0</p> <p>Form Factor : Tower with Intrusion Switch not more than 14.9 Ltr</p> <p>Power Supply : 180W internal power supply unit (PSU), 85% Efficient</p> <p>Mouse : USB Keyboard (same make as pc)</p> <p>Keyboard : USB Keyboard (same make as pc)</p> <p>Operating System : Windows 11 Pro 64 Bit</p> <p>Security : Discrete TPM 2.0 (Hardware)</p> <p>Certification : Energy star 6.0, EPEAT India Certified for Desktop & TCO 8.0 for Monitor, MIL STD 810 G (min.11)Test passed, ISO 9001:2008 certification</p>	1	1	Nos.

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		BIOS : Configuration Tool to Enable these features in a single Tool power on password, set up password , USB port disable with life cycle management tool Support : Drivers should be available for download form OEM site for at least 3 years form the date of the purchases order. (drive cab to be available in support site).			
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Record Room

Room Size: 2885 x 6115

Total Room: 1 Nos.

1	Almirah for Storages	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. Door shall be made of 0.8 mm thick and all other components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The	6	6	Nos.

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		shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60 μ .			
2	Steel Slotted Angle Racks	Providing, placing and installing a slotted angle rack with an overall size 900mm (W) X 450mm (D) X 1800mm (H). The panel shall have 5 nos. of shelves made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. CRCA slotted angle shall be supplied with 2mm thick having size 40mm X 40mm. All steel components shall be 40-60 μ thick (DFT) powder coated after 7 tank pre-treatment process flow. Corner plate (gussets) and fasteners shall be provided for complete assembly.	6	6	Nos.
3	Table for Incharge	Supplying and placing executive table in knock down condition with an overall size 900mm X 600mm X 750mm that is to be assembled at site. The worktop shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The table top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on MS/CRCA rectangle pipe frame having cross-section area 25mm X 25mm with 1.2mm thick. The table understructure shall be supplied with MS pipe having 25mm X 25mm with 1.2mm thick. 1 nos. footstep	1	1	Nos.

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		shall be provided between both side leg with the same size i.e 25mm X 25mm with 1.2mm thick. The table shall be clad with modesty panel. It should be 1mm thick X 150mm (W) made up of CRCA sheet. Fixed pedestal unit shall be supplied with 1 nos. of drawer at one side. The drawer shall be central locking mechanism by one single key. The drawer shall be operated with recessed handle. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership & AIOTA certification.			
4	Chair for Incharge	Providing and supplying revolving chair. The seat shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 45kg/m ³ and the back shall be made up of plastic inner padded with high resilience moulded polyurethane foam 50mm thick having density 50kg/m ³ . The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The back of the chair shall be supplied with polypropylene outer cover. The seat and back shall be arrested together with powder coated HR steel spine covered with PP bellow. The armrest shall be used polypropylene arm completely joint with seat. For seating durability the chair shall have revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standard. The pedestal should have five legged	1	1	Nos.

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injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castor. The castor of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 430 ± 10 mm(D) X 465 ± 10 mm(W) and back size shall be 415 ± 10 mm(W) X 400 ± 10 mm(H) from seat. Overall height shall be $= 830\pm10$ mm, base width/ depth $= 710\pm10$ mm.

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5	Computers	Processor : 12th Generation Intel® Core™ i5-12600, 18MB cache, 6 cores, 12 threads, 3.30GHz to 4.80GHz, 65W Chipset : Intel B660 Chipset Graphics: Integrated UHD Graphics 700 series compatible with processor Memory: 8 GB DDR4 RAM 3200 MHz expandable up to 64 GB with min 2 DIMM Slots Ports : 1 RJ-45 port 10/100/1000 Mbps , 8 USB Ports (Min. 4 USB 3.2 ports), 1 Universal Audio Jack, 1 DisplayPorts 1.4, 1 HDMI 1.4b Slots : 3 full-height PCIe Gen 3 slots (Min. 1 full height PCIe x16) , 2 M.2 slots (Wireless + Storage) Primary Hard Drive : 512 GB M.2 PCIe NVMe SSD Display : 19.5" display with 1600 x 900 resolution LAN : Integrated Gigabit Ethernet LAN 10/100/1000 WLAN : Wi-Fi 802.11.ac + Bluetooth 5.0 Form Factor : Tower with Intrusion Switch not more than 14.9 Ltr Power Supply : 180W internal power supply unit (PSU), 85% Efficient Mouse : USB Keyboard (same make as pc) Keyboard : USB Keyboard (same make as pc) Operating System : Windows 11 Pro 64 Bit Security : Discrete TPM 2.0 (Hardware) Certification : Energy star 6.0, EPEAT India Certified for Desktop & TCO 8.0 for Monitor, MIL STD 810 G (min.11)Test passed, ISO 9001:2008 certification BIOS : Configuration Tool to Enable these features in a single Tool power on password, set up password , USB port disable with life cycle management tool Support : Drivers should be available for download from OEM site for at least 3 years from the date of the purchases order. (drive cab to be available in	1	1	Nos.

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Male Staff Room

Room Size: 4500 x 6115

Total Room : 1Nos.

1	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 12 mm grid system (NRC 0.8) and supports as required.	325	325	Nos.
2	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White	12	12	Nos.

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		Color Temperature: 6000-6500K CRI:Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source:75 pcs SMD 2835 Luminous Flux:1350Lm Material: Aluminum.			
3	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	6	6	Nos.
4	Table for Staff Room	Supplying & Placing Conference table in completely knock down conditions with an overall size 3000mm X 1200mm X 750mm that is to be assembled at site. The top shall be made up of 25mm thick pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top shall be supported on MS/CRCA triangular shape pipe frame having cross-section area 53mm X 53mm X 75mm. The understructure shall consist of MS/CRCA triangular shape leg having cross-sectional area 53mm X 53mm X 75mm. The metal part shall be powder coated to the thickness of 40-60 μ DFT. There shall be plastic shoe provided to avoid scratches on the floor. The table connections have to be made in such a	1	1	Nos.

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		way that no gap should be seen in between. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.			
5	Chair for Staff Room	Providing and supplying a medium back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam having density 45kg/m ³ and the back shall be padded with high resilience moulded polyurethane foam having density 40kg/m ³ . The same shall be upholstered with jute fabric tapestry 1mm thick and 300 GSM. The chair shall be supplied with polypropylene/ABS seat and back cover for external support. The backrest of the chair shall be made by keeping the natural curvature of the spine. The armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have Push Back mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards.	8	8	Nos.

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		The pedestal should have five legged injection moulded 30% glass filled black nylon having pitch circle dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycles with 250lbs load. The seat size shall be 440±10 mm(D) X 470±10 mm(W) and back size shall be 430±10 mm(W) X 515±10 mm(Ht) from seat. Overall height shall be = 950±10 mm, base width/ depth = 710±10 mm.			
6	Almirah for Storages	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. Door shall be made of 0.8 mm thick and all other components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60 μ .	4	4	Nos.

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7	Steel Locker	Overall size of Personal Locker Unit with add on units shall be of dimensions 1520mm(W) X 450mm(D) X 1800mm(H) having 16 locker unit. Stackability shall have add - on units that can be stacked width wise to form bank of lockers having common side panel. Locking shall have cam lock with lock lever plus option. Material shall be CRCA 0.8 mm thickness. Shelf shall be uniformly distributed load capacity per each shelf level is 35 Kg maximum. Finish shall be epoxy polyester powder coated to the thickness of 50 microns. Handle/Label holder shall be aesthetically appealing Snap fit ABS plastic handle. Ventilation shall be attractive punched pattern for ventilation.	1	1	Nos.
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Female Staff Room

Room Size: 6000 x 4500

Total Room : 1Nos.

1	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 12 mm grid system (NRC 0.8) and supports as required.	300	300	Nos.
2	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.	12	12	Nos.

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3	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	6	6	Nos.
4	Table for Staff Room	Supplying & Placing Conference table in completely knock down conditions with an overall size 3000mm X 1200mm X 750mm that is to be assembled at site. The top shall be made up of 25mm thick pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top shall be supported on MS/CRCA triangular shape pipe frame having cross-section area 53mm X 53mm X 75mm. The understructure shall consist of MS/CRCA triangular shape leg having cross-sectional area 53mm X 53mm X 75mm. The metal part shall be powder coated to the thickness of 40-60 μ DFT. There shall be plastic shoe provided to avoid scratches on the floor. The table connections have to be made in such a way that no gap should be seen in between. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending,	1	1	Nos.

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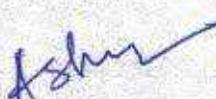
		screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.			
5	Chair for Staff Room	Providing and supplying a medium back chair with ergonomic design, comfortable & aesthetically appealing. The seat shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam having density 45kg/m ³ and the back shall be padded with high resilience moulded polyurethane foam having density 40kg/m ³ . The same shall be upholstered with jute fabric tapestry 1mm thick and 300 GSM. The chair shall be supplied with polypropylene/ABS seat and back cover for external support. The backrest of the chair shall be made by keeping the natural curvature of the spine. The armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have Push Back mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The	8	8	Nos.

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		gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded 30% glass filled black nylon having pitch circle dia. 650 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycles with 250lbs load. The seat size shall be 440±10 mm(D) X 470±10 mm(W) and back size shall be 430±10 mm(W) X 515±10 mm(Ht) from seat. Overall height shall be = 950±10 mm, base width/ depth = 710±10 mm.		
6	Almirah for Storages	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. Door shall be made of 0.8 mm thick and all other components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60 μ .	4	4





7	Steel Locker	Overall size of Personal Locker Unit with add on units shall be of dimensions 1520mm(W) X 450mm(D) X 1800mm(H) having 16 locker unit. Stackability shall have add - on units that can be stacked width wise to form bank of lockers having common side panel. Locking shall have cam lock with lock lever plus option. Material shall be CRCA 0.8 mm thickness. Shelf shall be uniformly distributed load capacity per each shelf level is 35 Kg maximum. Finish shall be epoxy polyester powder coated to the thickness of 50 microns. Handle/Label holder shall be aesthetically appealing Snap fit ABS plastic handle. Ventilation shall be attractive punched pattern for ventilation.	1	1	Nos.
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Seminar Hall

Room Size: 12000 X 14000

Total Room : 1 Nos.

1	Acoustics Treatment for Mid & High Frequency Absorption for all Walls.	Providing and fixing Acoustical Wall Paneling:- UP TO 2 FEET FROM FLOOR- Providing and Fixing wooden wall paneling fabricated from MS pipe/ tube of 25mm X 25mm having Insulation Fiber comprising of Glass Wool of 24kg Cub./Mtr. or Rockwool of 40kg Cub./Mtr. density to be filled between wall and 12 mm thick mdf which will be finished with polish/ Laminate Sunmica. ABOVE 2 FEET- Providing & fixing of 50mm wooden wall paneling fabricated from MS pipe/ tube of 25mm X 25mm @ 2'0" cc, made up of 12mm MDF which is duly filled with eco-friendly material (sound proof), duly finished with cloth/ polish/ paint. Sound proof ecofriendly system consists of 50mm filler with 25mm insulation fiber/glass wool padding which is finally covered with proper air gapping as per eco - sound arrangement.	1700	1700	Sq. Ft.
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2	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9 mm grid system (NRC 0.8) and supports as required.	1880	1880	Sq. Ft.
3	Flooring on Stage and Hall	Providing and Layering of Jute Carpet Roll of size 2Mtr x 30 Mtr as per the approved shades by the department. The carpet will be fixed on the floor with proper adhesive.	1880	1880	Sq. Ft.
4	Paint and Polish Work	Providing & applying on all exposed surface of ceiling, etc., Plastic Emulsion Paint of 'Asian Paints', 'Nerolac' or equivalent make as per the manufacturer's specification with a brush & roller. Base coat of approved primer before applying two coats of paint. Painting of wall with minimum of 2 coats of plastic emulsion paint of approved shade and make of the wall, Columns, Beams, Plywood or Gypboard including all necessary surfaces preparation. The wall shall be cleaned, filled with putty & applied with one coat of primer so as to achieve an even surface to apply paints.	1	1	Job
5	Acoustics Doors	Providing and fixing of 35mm thick single leaf Acoustic Door of size 2100*1050 and the door hardware including door closer, handle, lock and a door stopper.	2	2	Doors
6	Closure of Windows	All the windows in the rooms shall be closed with the APC Sheet.	1	1	Job
7	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: ?Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75	30	30	Nos.

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		pcs SMD 2835 Luminous Flux:1350Lm Material: Aluminum.			
8	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	15	15	Nos.
9	Electric Work	Providing, fixing, testing and replacement work of auditorium with new material, which includes complete wiring work, MCB, Main junction Box, DB replacing, Power function, Main supply box, Power Cable, Power switches, Switches & Sockets for LED lights and Fans, Copper wire, Drainage pipe and power cable for AC, Electrical Conduit, etc.	1	1	Job
10	Air Conditioner	Providing and Fixing 3 Star of Split AC with Installation • Feature Support 1.5 Ton Capacity • Feature Support Auto Restart • Feature Support Front Panel Display • Feature Support Rotary Compressor with Copper Fins • Installation Complete installation with Copper Pipes, Cables etc.	8	8	Nos.

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11	Auditorium Chair With Writing Pad	Supplying and placing ergonomically designed, comfortable & aesthetically appealing Auditorium chair. The seat shall be made of 12mm thick hot pressed plywood with HR polyurethane foam upholstered with fire retardant fabric tapestry and the back shall be made of 15mm Plywood with PU Foam upholstered 3 layered laminate 5mm thick with fabric tapestry. The Chair shall have a seat sliding mechanism. The armrest shall be made of PP with cup holder. All metal components shall be powder coated in black colour with min 40-60 micron. The grouting plate shall have bolting support. Seat size shall be $470\pm10\text{mm}(W) \times 450\pm10\text{mm}(D)$ and back size shall be $750\pm10\text{mm} (H)$ from seat $\times 450\pm10\text{mm} (W)$ & overall height $1010\pm10\text{mm}$. The chair comes with the writing pad.	144	144	Nos.
12	Premium Audi Chair (For Front Row)	Auditorium Chair, Push Back, PU Foam Seat, Cushion Arm With One Side Cup Holder, Fire Retardant Fabric Tapestry	14	14	Nos.
13	Stage Table	Supplying & Placing executive table in completely knock down conditions with an overall size $1500\text{mm} \times 600\text{mm} \times 750\text{mm}$ that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The worktop shall be made up of 25mm thick particle board with approved laminate and finish as per approved shade. The table top profile shall be in rectangle shape with front and back full round post form edges and other edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The end wall of the table on the side shall be topped by gable end. It should be made up of 25mm thick Pre-laminated particle	3	3	Nos.

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		board and profile shall be in linear shape with front and back full round post form edges and other edge with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the base to avoid scratches on the floor. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.			
14	Chair for Stage	Supplying & Placing Visitor Chair ergonomically designed for user comfort & shall have asthetically appealing design. The seat shall be made of double layered (18+6)mm thick hot pressed plywood with HR polyurethane foam 50mm thick having density 40kg/m ³ upholstered with leatherite in black colour with 0.8mm thick and 535 GSM and the back shall be made of double layered moulded hot pressed plywood (18+6)mm thick with HR polyurethane foam 40mm thick having density 32kg/m ³ upholstered with leatherite in black colour with 0.8mm thick and 535 GSM. The seat and back shall be fixed with L-type plywood and the armrest shall be used PU arm completely joint with seat and back. The frame shall be cantilever support made up of MS CRCA chrome plated round pipe of Dia 31.5mm with 2mm thick and two strip at base of MS CRCA chrome plated round	6	6	Nos.

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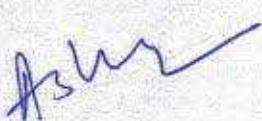
		pipe of Dia 16mm with 1.6mm thick. There shall be PPCP shoe provided at the base to avoid scratches on the floor . The Seat size shall be 515±10 mm(W)X495±10 mm(D) and back size shall be 480±10 mm(H) from seat & overall height = 940±10 mm.		
15	Digital Podium		1	1
	Feature	Descriptions		Nos.
	Type/Mounting	Free Standing		
	Construction	The Podium shall be wheel mounted capable of moving in all directions with a facility of lock them while the Electronic podium is in use. The enclosure shall be made of Polymer Powder Coated Steel Body with wooden top panels, designed to work in suitable environmental conditions. The wooden top shall have lock and key and should have a sliding cover for opening/closing easily. The Podium should have housing and connectivity for Visual Presenter while the visualiser is in use and not in use. At the time of using the Visualiser ,drawer can be opened and Visualiser can be used. The construction of the podium should be such that,while the podium is locked and not in use, there should not be any port exposed/ visible on the outer body for breakage/mishandling.		
	Display	Built-in highly sensitive Interactive Panel with adjustable Manual tilt & a mechanism to make the Panel stable so that it does not shake while writing with following minimum features -		
	Screen Type	LED		
	Size	53.0 cm (21 inches)		

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Resolution	1920 x 1080
Aspect ratio	16:9/16:10
Computer interface	One USB, One VGA/DVI/HDMI Port
Interactive Resolution	4000 Lpi (lines per inch)
Response Time	5ms
Viewing Angles	170(H) ; 160(V)
Touch	Finger
Reading accuracy	±0.5 mm (center)
Tracking speed	Approximately 200 points per second
Pen Pressure sensitivity	2048 Levels
Speakers	Display panel should have Inbuilt Speaker
System Details	
Processor	Intel Core i5 (10th Gen processor)
Small Form Factor	Computer should be of 2 liters Volume or less
In-Built Wi-Fi /Wireless LAN Card	Should have a inbulit Wi-Fi / Wireless LAN Card
RAM	8 GB
Hard Disk	128 GB SSD
Ports (Min.)	HDMI x 1, USB ports x 4, LAN Port x 1
Keyboard & Mouse	Wireless
Operating System	Windows 10
Antivirus	Norton Anti Virus/Mcafee or equivalent with 1 year license
Certification	BIS Certifications required
Controller	
Ports on front Panel of Controller (Minimum)	VGA, HDMI, USB3.0x2, Audio IN or more
Buttons on front Panel of Controller (Minimum)	Push buttons to control Volume Up & Down, Volume Mute and to switch sources of HDMI Visual Presenter, VGA Visual Presenter, HDMI Laptop, PC HDMI, VGA Laptop, VGA PC and




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	Controller Power On/Off, Display Power on and Power Off or more
Ports on Rear Panel of Controller (Minimum)	USB 3.0 X 2, VGA Input x 2, VGA Output x 2, RCA Audio IN X 1, RCA Audio Output x 2, HDMI Inputx2, HDMI Outputx2, Programming Port (Phoenix connector) or more
Built in HDMI Repeater	Yes (HDMI Output port should support 15mtr HDMI cable)
Controller Resolution Output	4K (3840 x 2160) Native
Power	5 V DC (Suitable Adaptor should be supplied with controller)
Built in devices	
Gooseneck	Gooseneck Microphone with XLR output. It should be Phantom powered so that
Microphone	there is no requirement of batteries thereby eliminating consumable cost. The gooseneck length should be atleast 21.5cm with ON/OFF switch and with LED light indicating ON/OFF status. The gooseneck microphone shall be permanently polarised condensor, highly directional featuring hypercardioid /lobar directivity.
Built in Amplifier Power	Amplifier : Class D
	Rated Power : 150 W
	Impedance : MIC input: 5mV / 600Ω balanced; AUX1,2 input: 350mV / 10KΩ unbalanced RCA connection terminal
	Mic Input : Minimum 4 input
	Line Input : Minimum 2 input
	Output : MIX OUT: 1000mV / 470Ω unbalanced RCA connector
	Tone : Bass: ± 10dB at 100Hz; Treble: ± 10dB at 10KHz
	Frequency Response : 80Hz ~16KHz (+ 1dB, -3dB)
	SNR : MIC1,2,3: 66dB; AUX1,2: 85dB
	THD : < 0.05% (at 1KHz, 1/3 rated power)

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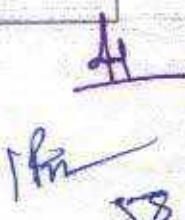
Par 50

	<p>Mute Function : MIC 1 is prior to MIC2-4, AUX1-2 audio input; EMC is prior to all audio inputs</p> <p>Channel Crosstalk Attenuation : ≥50dB</p> <p>Heat Dissipation : Side-in and rear-out forced fan cooling; fan starts automatically when the device is turned on; infinitely variable speed</p> <p>Protection : Overheat protection, overcurrent protection, short circuit protection</p> <p>Power Supply : AC ~ 220V / 50Hz</p> <p>Power Consumption : 300W</p>															
	<p>Two speakers of Minimum 50 W each shall be a part of standard supply.</p> <p>Speaker Type : 2 Way drivers</p> <p>Effective frequency range : 80 Hz – 20 kHz</p> <p>Rated power : 50 watts</p> <p>Sensitivity : 90 dB</p> <p>Impedance : 200Ω ohm</p> <p>IP Rated : IP66</p> <p>LF transducer : 5-inch woofer</p> <p>HF transducer : 1.5-inch tweeter</p>															
	<p>Sliding Trays Provision for keeping laptop and Keyboard & Mouse</p>															
	<p>Power Supply 180 -240V, 50Hz, AC Supply</p>															
	<p>Security Physical Key for secure access to system.</p>															
	<p>Fans Suitable cooling fans to be provided in the lower body.</p>															
16	<p>Interactive Flat Panel Display (IFPD-98 inches)</p> <table border="1"> <thead> <tr> <th>Feature</th> <th>Descriptions</th> </tr> </thead> <tbody> <tr> <td>Interactive display</td> <td></td> </tr> <tr> <td>Screen size</td> <td>98"</td> </tr> <tr> <td>Resolution</td> <td>UHD 3840 × 2160 pixels</td> </tr> <tr> <td>Brightness (typical)</td> <td>600 nits</td> </tr> <tr> <td>Contrast ratio</td> <td>5000:1</td> </tr> </tbody> </table>	Feature	Descriptions	Interactive display		Screen size	98"	Resolution	UHD 3840 × 2160 pixels	Brightness (typical)	600 nits	Contrast ratio	5000:1	1	1	Nos.
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Interactive display																
Screen size	98"															
Resolution	UHD 3840 × 2160 pixels															
Brightness (typical)	600 nits															
Contrast ratio	5000:1															

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(typical)	
Response time	2 ms
Light life (typical)	50,000 hrs
Smart Eye protection	Interactive display should have smart eye protection.
Auto Brightness Control	Interactive display should have inbuilt Light sensor to control brightness automatically based on ambiance light.
Glass	
Hardness	4 mm tempered AG Glass
Anti-glare coating	Interactive display should have Anti-glare coating
Touch screen	
Touch technology	Infrared touch
Touch points	20 touch points
Touch response time	< 4 ms
System	
CPU	Quad core 1.9 Ghz
Memory	8GB DDR3/DDR4
Storage	64GB and expandable up to 512 GB
OS	Android 11.0
Input/ Output ports	
Input Ports (minimum)	3 x HDMI, 1x DP, 1x VGA, 1x YBPR In, 1 x AV (3.5mm), 1x Mic in (3.5mm), 1x PC Audio In, 1 x TF card (Micro SD), 1 x Slot-in PC (OPS)
Output Ports (minimum)	1 x HDMI, 1 x AV (3.5mm), 1x Earphone, 1x SPDIF
USB Ports (minimum)	5 x USB 3.0 Type A, 2 x USB Type C, 2 x USB Type B (touch)
Communication Ports (minimum)	1x RS232 In, 2 x RJ45 10/100/1000 Gigabit ethernet port (In & Out)
Built-in peripherals	
Speaker	Stereo Sound with in-built 25 Watt x 2 speakers and subwoofer of 25 watt
Magnetic pen holder	Should have inbuilt magnetic pen holder with up to two pens

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Tutor friendly experience	Should have control buttons on Interactive display like Volume UP/Down, Home, Back, Menu, Touch on/off & Power Buttons for ease in teaching.
Quiz	Should have in built tool to allow participants to submit answers from their Smart Phones (Answering/Voting/Messaging)
Smart Multimedia Port	Should have Built in Type-c multimedia port on front side to deliver Video, Audio, Touch control, Internet Sharing and Fast charging of up to 65 watt using a single USB type C cable
SD Card Support	Should have provision to connect SD card supports up to 512 GB of Storage
SIM Card Module	Interactive Display should have inbuilt Sim card module to support 3G/4G Sim cards
Built in Wi-fi	Should have inbuilt Dual band Wi-fi (2.4 & 5Ghz)
Built-in Hotspot	Should have inbuilt Hotspot Dual band (2.4 & 5Ghz) with internet sharing across the connected devices
Stylus	Should have minimum 2 Nos of Stylus
Remote control	Should have remote control to operate the Interactive display
Software	
Whiteboard Interactive Software	Should have inbuilt whiteboard software for teaching/ training using Interactive display with features like AI Pen, Shape Pen, Handwriting Recognition, Sticky Notes, E-mail and others like (Pen, thickness of pen, colours of pen, Pixels eraser and Region eraser, Shapes (Circle, Triangle, Rectangle, arrows), Magnifier, Background of White board (multiple colours also use picture, shape), Redo/Undo, Next/Previous, Select & Drag option, Switching between single touch and multiple touch, Clear screen, List of pages with deleting option, Switching tool bar right to left, Many other Tools (Compass, Protector, Insert Table, Calculator, Curtain, Timer,

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	Calendar, Camera, Spotlight, Multiscreen (divide board in 2,3, and 4 parts with background colour and different pen colour), on screen annotation. Quiz results should be imported into whiteboard application Interactive software should be of the same OEM. Interactive software of the Interactive Display should detect the Visual Presenter/ Visualiser and should be able to annotate on the image captured by the Visual Presenter/ Visualiser.		
Wireless screen sharing	Interactive display should allow user to share/mirror the content of Laptop/Desktop and mobile device(Android) wirelessly and should have Screen Share software to show up to 4 Multiple screen at same time.		
Quick access tool	Floating Tool should be available on all screen for quick access tools and same should be customized as per user requirement.		
Play Store Support	Should have Built in Google Play store to download applications direct from Play store		
YouTube	Should have Built in YouTube application and should support up to 4K resolution.		
Inbuilt Cloud drive	Interactive display should have inbuild cloud drive access from Google drive & one drive		
Software based Video conferencing	Device should support software based VC with internal android platform like Google meet, Cisco WebEx , Skype, Microsoft teams & zoom applications.		
Multiple controlling menu	Should have Multi Controlling menu including Side menu, floating menu and pull up menu.		
Gesture Control	Should have gesture control like Hold five fingers on screen for Interactive display sleep mode, hold and move three fingers on screen for Floating menu & swipe the screen Upside for Pull up menu control.		

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Split Screen	Interactive display should have inbuilt split screen user should be able to split the screen to operate multitask like play a video in half of screen and open whiteboard in other half side.
Smart USB Port	All USB 3.0 port should support Smart USB sharing for Android, Internal PC or other External PC / Device
Multilanguage GUI	Device should have GUI interface in both Hindi and English Language
Virtual Keyboard	Device should have inbuilt virtual keyboard with English to Hindi writing support.
Enhanced Security	Should have provision to lock all the USB port, Screen Lock, application lock to restrict unwanted access.
Touch On/Off Button	Should have provision for Touch On/Off on front of Display
Sound enhancement	Should have inbuilt Volume equalizer and surround sound support to enhance the sound quality.
Screen Recording	Should have built in Screen recording feature supports up to full HD resolutions
Screen Shot	Should have built-in screen shot option using single click
Power	
Power	AC 100-240V 50/60Hz
Maximum Power Consumption	650 W
Standby Power Consumption	<0.5 W
Environment	
Operating temperature	0°C ~ 45°C
Operating Humidity	10% ~ 80% RH Non-Condensing
Accessories	Wall mount Kit, 1x HDMI Cable (1.5 Meter), 1x USB A to B cable (1.5 Meter), 1x Power Cable (1.5 Meter)
Certifications	BIS certification required

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Sensor	1/2.8", CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens	f3.5mm ~ 42.3mm, F1.8 ~ F2.8
Optical Zoom	10x
Digital Zoom	12x
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	>55dB
Field of View	80 degrees
Horizontal Rotation Range	±170 degree
Vertical Rotation Range	Minus 30 degrees ~ Plus 90 degree
Pan Speed Range	2.7 degrees ~ 35 degrees per second
Tilt Speed Range	1.7 degrees ~ 31 degrees per second
H & V Flip	Support
Image Freeze	Support
Number of Pre-set	255, 10 pre-sets on Remote control
Pre-set Accuracy	0.1°
Video System	1080p/60, 1080p/50, 1080p/30, 1080p/25
USB Featured	
Operate System	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
Colour System	YUY2 / H.264 / MJPEG
Video Format	YUY2 (ISOC): 1080P@60fps H.264 AVC/SVC: 1080P@60fps MJPEG: 1080P@60fps
Audio on USB	Support

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USB Video	UVC 1.1~1.5
Communication Protocol	
IPC Features	
Video	H.264/MJPEG
Video Stream	Main Stream, Sub Stream
Main Stream Resolution	1920x1080, 1280x720, 1024x576
Sub Stream Resolution	1280x720, 720x576, 320x240
Video Bit Rate	328Kbps ~ 20480Kbps
Bit Rate Type	Variable Rate, Fixed Rate
Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps
Audio	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Support protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast
Operational Requirement	
Redundant Power Supply	Device should Support Minimum three power supply method for power redundancy Supports USB 5V power supply, 12V power adapter power supply and PoE power supply.
PoE Power Supply & Controlling	Device should Support PoE power supply for control, Video and audio only need one network cable.
Simultaneous Video Output	Device Should support HDMI,USB3.0 and LAN interface based Video output HD video at the same time.
Low Light	Device Should support High SNR of CMOS sensor, even under low illumination conditions, picture can still keep clean and clear.
Remote Control	All the parameters of the camera can be remote controlled by the high-speed communications
Input/Output Interface	
Video Output	1xUSB3.0, 1x HDMI, 1x RJ45
Network Interface	1xRJ45: 10M/100M Ethernet Interface
USB Interface	1x USB 3.0 Type-C
Audio Interface	1-ch: 3.5mm Audio Interface Line In

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	Communication Interface	1xRS232 In, 1xRS485			
	Power Jack	JEITA type (DC IN 12V)			
Generic Specification					
	Input Voltage	DC 12V, DC 5V, PoE(802.3af)			
	Current Consumption	12V - 1.0A(MAX) / 5V - 1.5A(MAX)			
	Operating Temperature	-10°C ~ 40°C			
	Storage Temperature	-40°C ~ 60°C			
	Power Consumption	12W (Max)			
	Certifications	BIS certifications required			
18	LED TV (55 Inches)	Resolution: 4K Ultra HD (3840x2160) Refresh Rate: 60 hertz Connectivity: Wi-Fi (Built-in) 3 HDMI ports to connect set top box, Blu Ray players, gaming console 1 USB ports to connect hard drives and other USB devices eARC Bluetooth 5.0 Optical Ethernet Sound: 20 Watts Output 2.0 Ch Speaker AI Sound (Virtual Surround 5.1 up-mix) Auto Volume Levelling Bluetooth Surround Ready Smart TV Features: AI ThinQ & WebOS 22 with User Profiles Game Optimizer & Dashboard α5 Gen5 AI Processor 4K Unlimited OTT App Support: Netflix, Prime Video, Disney+ Hotstar, Apple TV, SonyLIV, Discovery+, Zee5 ALLM & HGiG Mode HDR 10 Pro & Active HDR Display: 4K Ultra HD LED Display 4K Upscaler AI Brightness Control	2	2	Nos.
19	Recording and Streaming Device	Minimum 10" inches	1	1	Nos.
	Interactive Panel (Size)				
	HDMI Inputs	2 x HDMI In			
	HDMI Output	1 x HDMI Out for Local Display			
	Audio Inputs	1 x Line In and 1 x MIC In (unbalanced)			
	Audio Output	1 x Line Out			
	USB 3.0	1x USB 3.0 ports			

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	Storage	1TB (Internal)		
	Video Compression	H.264		
	Bitrate	300kbps to 16 Mbps		
	Resolution	1080p, 720p, 480p, 270p, User Selectable up to 1920 x 1080p		
	Video Switching	During Live Streaming and recording via the touch screen or Web UI		
	Video Layout	PIP, POP, Single video		
	Encoded Streams	2 simultaneous 1080p streams at 30 fps (with up to Full HD Sources)		
	Audio Encoding	AAC (Sampling @ 48 khz) up to 320kbps		
	Network	1 x 1000 Ethernet port (RJ45)		
	Video Format	MP4, 1080p		
	Controls	Web UI Panel, 10.1' touch screen, RS232 and RS485		
	Power Consumption	Max up to 30W/ 2.5Amp		
	Additional Component	Power On/ Off Switch, Reset Button		
20	Full HD HDMI Switcher with 1 input and 4 output		1	1
	Parameter	Specifications		Nos.
	Inputs	1 HDMI connectors		
	Outputs	4 HDMI connectors		
	Bandwidth	2.5Gbps or better		
	Compliance with HDMI Standard	Supports HDMI and HDCP		
	Output Resolutions	Up to 1080p		
	INDICATOR LEDs	OUTPUT STATUS 1 to 4		
21	Full HD HDMI Video extender (Tx-Rx) upto 50 mtr.		1	1
	Parameter	Specifications		Nos.
	Transmitter (Tx)			
	Inputs	1 HDMI connectors		
	Outputs	1 HDBT on RJ45 Connection		
	Receiver (Rx)			
	Inputs	1 HDBT on RJ45 Connection		

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	Outputs	1 HDMI connectors		
	Transmission up to	minimum up to 50 meter		
	Compliance with HDMI Standard	Supports HDMI and HDCP		
	Output Resolutions	Up to 1080p		
22	Virtual classroom solution			Solution
	Feature	Specifications	1	
	Industry Standard Integration capabilities	LMS Should support Sharable Content Object Reference Model (SCORM), should support API integration with major LMS's. like Moodle that allows Moodle courses to show up as folders within the LMS solution and data of moodle should be Imported/exported to and from LMS platform.		
	Mobile Application	The LMS should have Android & iOS supported Mobile App where Teacher can assign activities, Student can join live class, do the assignments and Teacher can evaluate it.		
	Secure platform access	LMS should have should be used a secure encrypted session with SSL Security to provide secure access of platform.		
	Language Support	LMS should support Hindi & English Language		
	User Interface	LMS should be optimized for desktop, tablet, and mobile user experience, navigation bar and a simplified process for managing favourites sites, screen-reader compatibility & in-built font libraries		
	Reporting	LMS should have Individual student Grade Summary with integrated Teacher Review Mode, Simplified and consolidated Import/Export process of reports, student competency module, live log reports & automated scorecard, Session attendance of Students		
	Lesson tools	LMS should have Menu bar with categorized menu items with separate tabs to organize a defined lesson		
	User notification system	LMS should have rich text pop-up notifications for users		

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Online Assessment	<p>LMS should have reporting capabilities, including the ability to see all assessment submissions of individual students, Sections, groups with specific timelines (e.g., due date, time to complete the assessment, etc.)</p>	
	<p>LMS should have online Proctored test provision to Conduct Highly Secure online examinations to identify any suspicious behaviour detected during the test</p>	
Instruction Design	<p>LMS should be able to create online assignments, Organize text, resources, quizzes, tests, organize interactive lesson using media and other content onto a single page to fit the needs of a given lesson, post a summary outline of course requirements, Create and manage online assessments using robust toolset: closed and open-ended questions, matching, question pools, set point value, auto-grading, statistics & timed assessments with high level of encryption.</p>	
Communication Tools	<p>LMS should be able to schedule and maintain time deadlines, activities and events related to a course, project and connect to web link related to announcements, assignments, assessments, materials, etc. should supports Online chat tool, built in Online discussion forum for participants, Create and manage email list for invites , messaging to individual/groups etc.</p>	
Live Video Collaboration	<p>LMS solution should have Live Video & Audio Collaboration feature with two-way communication between Teacher and Students in Live Classroom and should have feature to manage resolution for effective bandwidth utilization.</p>	
	<p>LMS solution should capable to connect up to 100 Learners in a live classroom. By rotation, any participant should be able to be brought on main screen for everyone else to view up to 20 speaker videos simultaneously. there should be provision</p>	

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	<p>for room chats, private chat, raise hand, participants mute/unmute, video enable/disable, Lecture capturing/ session recording and breakout rooms.</p>	
	<p>Should have Inbuilt Whiteboard with options like pen, eraser, Highlighter, Text input, Shapes, Live picture input etc. Should have Inbuilt locking tool for live classroom</p>	
	<p>Should have Instant recording on cloud: Recording saved once live class is finished. Should have In-Built Video editing Tool. Should have Inbuilt device management tool to manage webcam, mic and speaker in live class</p>	
	<p>Should have YouTube Integration and Host can create the playlist via YouTube. (Integrated YouTube search to find public and unlisted YouTube videos and share them in class for synchronous playback).</p>	
	<p>The LMS platform should have Inbuilt Breakout Room option: User can create breakout rooms during the Live class and manually assign Learners to rooms. Should have option for Host to turn on and off microphone & camera of all the participants at the same time. Should have option for Host to turn on/off only microphone/camera of any Learners, option for Host to hide the learners webcam in live classroom, option for Instructors to allow participants to share their screens, writing controls, chat, Notes, Play shared files, option to Create & import the quizzes in live classroom, Should have Full screen mode for learner & Host</p>	
Admin Interface	<p>LMS should be able to define groups for the purposes of communication, grading, permissions, collaboration, assigning work or assessments, delegate administrative controls to staff members , grant site access and privileges to users. Ability to Manage approval of registration, Create Teacher/ Admin Accounts, send notifications , create courses, Create learning material badges/certificates for learner/teacher appreciation, Track learners performance, Upload and view course content, Content Type can be- video, audio, document (ppt,</p>	

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	pdf, word, text, ppt) and weblink. Solution should have the option to upload bulk database of Students & Teachers.			
	<p>Teacher Interface</p> <p>LMS should be able to produce and manage lesson plans, upload and view course content, upload and play HTML file, track learners performance, view / edit profile, add videos, send/check notification for upcoming events, maintain tasking, get information about course statistics and progress, publishing events in calendar, use dynamic calendar where user can view all the activities at a glance, design and set quiz tests and view online activities.</p> <p>Teacher should be able to publish the lesson to class once prepared. Once the lesson is published any changes made to the lessons by the teacher should be automatically reflected to the students. Entire class should get notification and be able to access the lessons published by the teacher on their devices or on browser.</p>			
	Parents Interface	LMS should have the capability to track the attendance and progress of students.		
	Cloud Storage	LMS platform should be provided with up to 15GB of cloud storage for each licence and with a validity of three years for the platform.		
23	6 KVA Online UPS		1	1
	Parameter	Specifications		Nos.
	Phase	Single Phase with Ground		
	Capacity	6000 VA / 4800 W		
	Input			
	Nominal Voltage	200 / 208 / 220 / 230 VAC		
	Input Voltage Range	10		
	Frequency Range	46 Hz ~ 54 Hz @ 50 Hz System 56 Hz ~ 64 Hz @ 60 Hz System		
	Power Factor	≥ 0.99 @ Nominal Voltage (100% Load)		
	Output			

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Output Voltage	200 / 208 / 220 / 230 VAC
Voltage Regulation	$\pm 1\%$
Frequency Range (Synchronized Range)	47 ~ 53 Hz or 57 ~ 63 Hz
Frequency Range (Batt. Mode)	50 Hz ± 0.25 Hz or 60 Hz ± 0.3 Hz
Overload	100% - 110% 10 min., 110% - 130% 1 min., >130% 1 sec
Current Crest Ratio	3:1 Max
Harmonic Distortion	$\leq 3\%$ THD (Linear Load) $\leq 6\%$ THD (Non-Linear Load)
Transfer Time AC Mode to Battery Model	0 ms.
Transfer Time Inverter to Bypass	0 ms.
Waveform (Batt. Mode)	Pure Sinewave
Efficiency	
AC Mode (Overall)	88%
Battery Mode (Inverter)	83%
Battery	
Battery Type	12 V / 7 AH
Backup	30 mins backup on 80% load
Typical Recharge Time	9 Hours Recover to 90% Capacity
Charging Current (max.)	1A $\pm 10\%$
Charging Voltage	218.4 VDC $\pm 1\%$
Environment	
Operation Temp	0 - 40°C (Battery Life Cycle will be Shorten When Temperature is Above 25°C)

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24	Operation Humidity	<95 and Condensing	1	1	Solution
	Noise Level	Less than 55 dB @ 1 meter			
	Management				
	Smart RS-232/USB	Supports Windows 2000 / 2003 / XP / Vista / 2008 / 7 / 8, Linux, Unix and MAC			
	Optional SNMP	Power Management from SNMP Manager and Web Browser			
	PA Mixer				
	MIC INPUT (Impedance/Gain)	2kΩ Balanced/65dB, 1kΩ Unbalanced/65dB			
	LINE INPUT (Impedance/Gain)	20kΩ Balanced/45dB, 10kΩ Unbalanced/45dB			
	DISTORTION	< 0.1%			
	FREQUENCY RESPONSE	25Hz-20 kHz (-1dB)			
25	TONE CONTROLS	Bass: ±15dB at 80Hz, Treble: ±15dB at 12kHz	1	1	Solution
	LINE OUTPUT	0dBu/+21dBu (775mV/9V)			
	DELAY SYSTEM	Digital Signal Processing			
	DELAY RANGE SETTINGS	Variable from 20 to 300ms			
	DIGITAL PLAYER	MP3 Player/Recorder with USB Reader, Bluetooth			
	Signal to Noise Ratio	> 68dB			
	POWER SUPPLY	AC: 220-240v 50/60hz			
	DIMENSIONS	W281 x H75 x D210 mm			
	WEIGHT	1.60kg			
	PA Mixer Amplifier				
25	Power OUTPUT	300W + 300W Max., 200W + 200W RMS at 10% THD	1	1	Solution
		180W + 180W RMS at 5% THD, 165W + 165W RMS at 2% THD			
	Output Regulation	≤ 2 dB, no load to full load at 1kHz			
	Input Channels	Mono 6 x Mic 0.6mV/4.7kΩ, 2 x Aux 100mV/470kΩ			
		Stereo L/R 200mV/100kΩ, Line L/R 1V/50kΩ			

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	Frequency Response	50-15,000Hz \pm 3dB	
	Signal to Noise Ratio	60dB	
	Tone Controls	Bass: \pm 10dB at 100Hz, Treble: \pm 10dB at 10kHz	
	Outputs	Preamp 200mV/600 Ω , Line 1V/1k Ω	
	SPEAKER OUTPUTS	4 Ω , 8 Ω , 70V & 100V for each zone	
	power supply	AC: 220-240V 50/60Hz DC: 24V (2x12V Car Battery)	
	POWER CONSUMPTION	AC: 700VA DC: 9A	
	DIMENSION	W510 x H172 x D385 mm	
	Weight	24.20kg	
26	Wall Speakers		
	Power Rating	60W RMS/90W Max.	
	Power Taps	60w, 60/40/30/20/10w	
	IMPEDANCE /VOLTAGE	8 Ω / 100V	
	Frequency Response	50-20,000Hz	
	SPL at 1kHz (1W/1m)	87dB	
	SPEAKER	Woofer 163mm (6 $\frac{1}{2}$ "), Tweeter 25mm (1")	
	Dimensions	W215 x H310 x D175 mm	
	WEIGHT	3.22kg/3.80kg	
27	Wireless Microphones (Handheld)		
	SPECIFICATION	TRANSMITTER	
	RF Output Power	10mW (Max.)	
	Frequency Stability	\pm 0.005%	
	Modulation Mode	FM	
	Microphone Element	Dynamic, Cardioid	
	Frequency Response	50-15,000Hz	
	Power Requirement	3V (2 x 1.5V AA Pencil Cells)	

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Current Consumption	≤ 150mA
Controls	Microphone ON/OFF switch
Indications	Channel Frequency Display
Dimensions	Ø55 (L 250) mm
Weight	220g (w/o battery)
SPECIFICATION S	RECEIVER
Audio Output	Bal. OdBu, Unbal. -10dBu
S/N Ratio	100dB
DISTORTION	≤1%
Frequency Response	50-15,000Hz
Power Requirement	220V-240V AC 50Hz for AC Adaptor (supplied alongwith)
Controls	ON/OFF Switch, Volume Controls for Channel A & B
Indications	LEDs for RF & Audio Signal
	Channel Frequency Display
Dimensions	W210 × H42 × D147 mm
Weight	405g
28	Wireless Microphones (Beltpack System)
SPECIFICATION S	TRANSMITTER
RF Output Power	15mW (Max.)
Modulation Mode	FM
Microphone Element	Condenser, Omnidirectional
Dynamic Range	80dB
Frequency Response	80-15,000Hz
Current Consumption	≤ 130mA
Power Requirement	3V (2 × 1.5V AA Pencil Cells)
Controls	ON/OFF Switch, Volume Control
Indications	Red LED for indicating transmitter ON, Frequency Display
Dimensions	W67 x H32 x D95 mm
Weight	60g (w/o battery)

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	SPECIFICATION	RECEIVER			
	S				
	Audio Output	Bal. OdBu, Unbal. -10dBu			
	S/N Ratio	90dB			
	Distortion	≤1%			
	Frequency Response	50-15,000Hz			
	Dynamic Range	>90dB			
	Power Requirement	240V AC 50Hz from AC Adaptor			
	Controls	ON/OFF Switch, Volume Control			
	Indications	LEDs for RF & Audio Signal, Channel Frequency Display			
	Dimensions	W210 x H42 x D147 mm			
	Weight	372g			
29	Microphones (Hand Mic)				
	Frequency Response	50-15,000Hz			
	Sensitivity	2.0mV/Pa			
	Impedance	600Ω			
30	Mic Stand (Floor/Table)				
	Type	Floor Stand			
	Height	920-1500mm			
	Base Dia	230mm			
	Wight	4.60Kg			
31	Accessories, Cables, Patch Cables, Tools, Aux Wires, XLR Cables, Multi Pin Cables, Wall Mount Racks, Installation and Commissioning Charges	Required Accessories for Installation of all the audio video equipments will be provided by seller no extra payment will be provided for accesssories.	1	1	Job
32	Steel Name Plates (On Main Door)		1	1	Job
33	Entry/Exit Light Board		1	1	Job
34	Automatic Room Freshners		1	1	Job

Librarian Room

Room Size: 6000 x 4450

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1	Library Racks (Double Sided- Main Unit)	Providing, supplying and placing double side steel Library Racks in perfectly upright and straight position. The overall size of the rack shall be 940mm (W) X 600mm (D) X 2110mm (H). The rack shall be supplied with 4 nos. of adjustable shelves on both side i.e. 10 loading levels. Rack, side panel, skirting shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Side and top shall be covered with 18mm thick Pre-laminated particle board of grade II of IS 12823. The edges of the board shall be sealed with 2mm thick PVC edge banding. The add-on units can be stacked width wise to form a bank of racks having common side panel. The shelves shall be folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly Distributed load capacity per each shelf shall be 80kg maximum. Each shelf shall be provided with stiffener at bottom for strength and back stiffener for separator between front and rear shelf. All steel components shall be epoxy polyester powder coated to the thickness of 40-60 μ . Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level & support structure.	10	10	Nos.

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2	Library Racks (Double Sided- Add on Unit)	Providing, supplying and placing double side steel Library Racks in perfectly upright and straight position. The overall size of the rack shall be 940mm (W) X 600mm (D) X 2110mm (H). The rack shall be supplied with 4 nos. of adjustable shelves on both side i.e. 10 loading levels. Rack, side panel, skirting shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Side and top shall be covered with 18mm thick Pre-laminated particle board of grade II of IS 12823. The edges of the board shall be sealed with 2mm thick PVC edge banding. The add-on units can be stacked width wise to form a bank of racks having common side panel. The shelves shall be folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly Distributed load capacity per each shelf shall be 80kg maximum. Each shelf shall be provided with stiffener at bottom for strength and back stiffener for separator between front and rear shelf. All steel components shall be epoxy polyester powder coated to the thickness of 40-60 μ . Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level & support structure.	10	10	Nos.

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3	Table for Room In-Charge	Supplying and placing executive table in knock down condition with an overall size 1200mm X 600mm X 750mm that is to be assembled at site. The worktop shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The table top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on MS/CRCA rectangle pipe frame having cross-section area 25mm X 25mm with 1.2mm thick. The table understructure shall be supplied with MS pipe having 25mm X 25mm with 1.2mm thick. 1 nos. footstep shall be provided between both side leg with the same size i.e 25mm X 25mm with 1.2mm thick. The table shall be clad with modesty panel. It should be 1mm thick X 150mm (W) made up of CRCA sheet. Fixed pedestal unit shall be supplied with 1 nos. of drawer at one side. The drawer shall be central locking mechanism by one single key. The drawer shall be operated with recessed handle. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership & AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.	1	1	Nos.

			1	1	Nos.
4	Chair for Room-Incharge	Providing and supplying revolving chair. The seat shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 45kg/m ³ and the back shall be made up of plastic inner padded with high resilience moulded polyurethane foam 50mm thick having density 50kg/m ³ . The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The back of the chair shall be supplied with polypropylene outer cover. The seat and back shall be arrested together with powder coated HR steel spine covered with PP bellow. The armrest shall be used polypropylene arm completely joint with seat. For seating durability the chair shall have revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standard. The pedestal should have five legged injection moulded in 30% glass filled black nylon having pitch circle Dia. 650 mm fitted with 5 nos. twin wheel castor. The castor of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. The seat size shall be 430±10 mm(D) X 465±10 mm(W) and back size shall be 415±10 mm(W) X 400±10 mm(H) from seat. Overall height shall be = 830±10 mm, base width/ depth = 710±10 mm.			
5	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9mm-12 mm grid system as per room requirement (NRC 0.5 or more) and supports as required.	767	767	Sq. Ft.

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6	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.	12	12	Nos.
7	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	6	6	Nos.
8	Air Conditioner	SITC of Air Conditioner of 3Star 1.5 Ton <ul style="list-style-type: none"> • Feature Support 1.5 Ton Capacity • Feature Support Auto Restart • Feature Support Front Panel Display • Feature Support Rotary Compressor with Copper Fins • Installation Complete installation with Copper Pipes, Cables etc. 	1	1	Nos.
Data Center Incharge Room Incharge Room					
Room Size: 4500 x 3000					
Total Room : 1Nos.					
1	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9mm-12 mm grid system as per room requirement (NRC 0.5 or more) and supports as required.	300	300	Sq. Ft.

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2	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.	8	8	Nos.
3	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	4	4	Nos.
4	Electrical Work	Providing, fixing, testing and replacement work of room with new material, which includes complete wiring work, MCB, Main junction Box, DB replacing, Power function, Main supply box, Power Cable, Power switches, Switches & Sockets for LED lights and Fans, Copper wire, Drainage pipe and power cable for AC, Electrical Conduit, etc.	1	1	Job

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5	Executive Table	<p>Providing and supplying executive table with an overall size 1200mm X 600mm X 750mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on CRCA C-frame with 0.9mm thick duly powder coated. The understructure shall consist of MS/CRCA rectangle pipe frame having cross-section area 38mm X 25mm with 1.2mm thick. Fixed top supporting pedestal shall be supplied at one side of the table. The pedestal shall be made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS:513. It should have 3 nos. of drawer i.e. 2 box and 1 filing. It should be operated on ball bearing sliding channel and recessed plastic handle with centralized locking mechanism. The table shall be clad with half modesty panel. There shall be leveller provided at the bottom. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership & AIOTA certification.</p>	2	2	Nos.

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6	Executive Chair	<p>Providing and supplying high back chair with ergonomic design, comfortable & aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m³ in seat and 40mm thick having density 40Kg/m³ in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The back and base of the chair shall be supplied with polypropylene bead on edges and the backrest shall be made by keeping the natural curvature of the spine with lumbar support. The seat and back shall be arrested together with 50-60μ thick powder coated HR steel spine and the armrest shall be used black integral polyurethane arm with metal insert completely joint with seat and back. For seating durability the chair shall have swivel tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should be five legged injection moulded in black 30% glass filled nylon having pitch circle Dia. 700\pm15 mm and fitted with 5 nos. twin wheel castors. The castors of the chairs should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA Standards X5.1-2011 tested to perform 98,000 cycles with 250lbs load. The seat size shall be 475\pm10 mm(W) X 460\pm10 mm(D) and back size shall be 470\pm10 mm(W) X 610\pm10 mm(H) from seat. Overall height shall be = 1050\pm10 mm, Overall width (arm) =</p>	1	1	Nos.

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82

		545±10 mm, base width/ depth = 760±10 mm.			
7	Visitor Chairs	Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 15mm thick hot-pressed commercial plywood padded with high resilience molded polyurethane foam 50mm thick having density 40kg/m ³ in seat and 40mm thick having density 40Kg/m ³ in back. The same shall be upholstered with tapestry 1mm thick and 300 GSM. The back and base of chair shall be supplied with polypropylene bead on edges and the backrest shall be made by keeping the natural curvature of the spine. The seat and back shall be arrested together with 50-60 μ thick powder coated HR steel spine and the armrest shall be used of black integral polyurethane arm with metal insert completely joint with seat and back. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia,	2	2	Nos.

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83

25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 460±10 mm(W) X 450±10 mm(D) and back size shall be 460±10 mm(W) X 400±10 mm(H) from seat. Seat height = 450±10 mm, Overall height shall be = 830±10 mm, Overall width - 555±10 mm, overall depth = 595±10 m

Record Room Cum Store Room

Room Size: 6000 x 4500

Total Room: 1 Nos.

1	Book Shelves	Providing and supplying metal book case with an overall size 915 mm (W) X 320 mm (D) X 1750mm (H). The book case shall be supplied with 4 nos. of individual compartments. Top, back & side panels shall be made of 0.8mm and rest 1mm high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Each door shall have individual locking provision and 4 mm thick transparent glass for clear inside vision secured in a metal frame through rubber gasket. Each door shall have scissor mechanism for receding inside the top of respective compartment which ensures parallel & smooth movement. Each door shall have plastic side end caps as handle which is easy to grip. Each compartment has a storage shelf having Uniformly Distributed Load Capacity of each shelf is 40 Kg maximum. The finish is Epoxy Polyester Powder coated to the thickness of 40-60 μ . Adjustable leveler shall be provided with metal insert to resist scratches on the floor and also level & support structure.	10	10	Nos.

Ashutosh

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84

2	Slotted Angle Rack	Providing, placing and installing a slotted angle rack with an overall size 900mm (W) X 450mm (D) X 1800mm (H). The panel shall have 5 nos. of shelves made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. CRCA slotted angle shall be supplied with 2mm thick having size 40mm X 40mm. All steel components shall be 40-60 μ thick (DFT) powder coated after 7 tank pre-treatment process flow. Corner plate (gussets) and fasteners shall be provided for complete assembly.	8	8	Nos.
Research Coordinate Room Size: 4500 x 6115 Total Room: 1 Nos.					
1	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9 mm grid system (NRC 0.8) and supports as required.	320	320	Sq. Ft.
2	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	4	4	Nos.
3	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: ?Ra	8	8	Nos.

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85

		75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.		
4	Room Electrical Work	Providing, fixing, testing and replacement work of VC Room with new material, which includes complete wiring work, MCB, Main junction Box, DB replacing, Power function, Main supply box, Power Cable, Power switches, Switches & Sockets for LED lights and Fans, Copper wire, Drainage pipe and power cable for AC, Electrical Conduit, etc.	1	1
5	Executive Table	Supplying & Placing executive table with credenza unit in completely knock down conditions with an overall size 2100mm X 1800mm X 750mm that is to be assembled at site. The worktop shall have the size 1800mm X 900mm made up of 25mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The table top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top shall be supported on CRCA rectangle pipe frame having cross-section area 40mm X 20mm with 1.6mm thick duly powder coated. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick Pre-laminated particle board in linear shape with appropriate PVC edge banding. The table under structure shall consist of CRCA rectangle pipe leg (loop	1	1

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		leg) and (U-type leg) having cross-section area 40mm X 10mm and 95mm X 25mm with 1.6mm thick. There shall be shoe provided at the base to avoid scratches on the floor. The table shall have credenza unit for storage purpose with an overall size 1800mm X 600mm X 430mm. It should be made up of Pre-laminated particle board of grade II of IS 12823 with drawer base 9mm thick and other parts 18mm thick like shutter, back, facia, side panel etc. It shall have 3 drawer and 1 sliding shutter which is operated on ball bearing channel to enable smooth operation, SS handle and central locking mechanism in which all the drawer shall be synchronized locked with one single key. The credenza unit shall be mounted on CRCA rectangle pipe frame leg having cross-section area 40mm X 10mm with 1.5mm thick. The complete metal parts shall be duly powder coated to the thickness 50-60 μ dry film thickness. All the size shall have the tolerance of upper and lower deviation of ± 10 mm for board & ± 0.2 mm for metal. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification.		
6	Executive Chair	We are providing and fixing a high back chair. Seat and back made of hot pressed 18 mm thick moulded wooden ply with upholstered foam denisty 32 kg/m ³ in back & foam denisty 40+/-2 kg/m ³ in seat and leatherite tapestry. The revolving in 360' degree chair's mechanism will be swivel tilt with single point locking tension arrangment .Arm rests are made of polypropylene and cushioned with leatherite tapestry. The pneumatic seat height adjustable 65/100 mm in BIFMA standard class 3 with locking point. Pedestal is made of injection moulded	1	1

Ashwin

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16/2

87

		black nylon with 30% glass filled & fitted with 5 nos. twin wheels castors which are made of injection moulded black nylon. Seat size shall be - 19.5" (W) x 19" (D) and back height shall be 27" from seat & overall height : 42.5".			
7	Visitor Chairs	Providing and supplying visitor chair with ergonomically designed for user comfort. The seat and back shall be made of 15mm thick hot pressed commercial plywood with HR polyurethane foam 50mm thick having density 40kg/m ³ in seat and 25mm thick having density 32kg/m ³ in back. The same shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. The seat and back shall be arrested together with CRCA pipe frame and the armrest shall be used cushion arm mounted on PP armrest. The frame shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia. 28mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 500±10 mm(W) X 490±10 mm(D) and back size shall be 510±10 mm(H) from seat & overall height = 945±10 mm.	3	3	Nos.
7	Almirah For Storage	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. Door shall be made of 0.8mm thick and all other components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf &	1	1	Nos.

Azam

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182
98

		door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60 μ .			
8	Computers	<p>Processor : 12th Generation Intel® Core™ i5-12600, 18MB cache, 6 cores, 12 threads, 3.30GHz to 4.80GHz, 65W</p> <p>Chipset : Intel B660 Chipset</p> <p>Graphics: Integrated UHD Graphics 700 series compatible with processor</p> <p>Memory: 8 GB DDR4 RAM 3200 MHz expandable up to 64 GB with min. 2 DIMM Slots</p> <p>Ports : 1 RJ-45 port 10/100/1000 Mbps, 8 USB Ports (Min. 4 USB 3.2 ports), 1 Universal Audio Jack, 1 Display Ports 1.4, 1 HDMI 1.4b</p> <p>Slots : 3 full-height PCIe Gen 3 slots (Min. 1 full height PCIe x16) , 2 M.2 slots (Wireless + Storage)</p> <p>Primary Hard Drive : 512 GB M.2 PCIe NVMe SSD</p> <p>Display : 19.5" display with 1600 x 900 resolution</p> <p>LAN : Integrated Gigabit Ethernet LAN 10/100/1000</p> <p>WLAN : Wi-Fi 802.11.ac + Bluetooth 5.0</p> <p>Form Factor : Tower with Intrusion</p> <p>Switch not more than 14.9 Ltr</p> <p>Power Supply : 180W internal power supply unit (PSU), 85% Efficient</p> <p>Mouse : USB Keyboard (same make as pc)</p> <p>Keyboard : USB Keyboard (same make as pc)</p> <p>Operating System : Windows 11 Pro 64 Bit</p> <p>Security : Discrete TPM 2.0 (Hardware)</p>	1	1	Nos.

Aslam

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Aslam

89

Certification : Energy star 6.0, EPEAT
 India Certified for Desktop & TCO 8.0 for
 Monitor, MIL STD 810 G (min.11) Test
 passed, ISO 9001:2008 certification
 BIOS : Configuration Tool to Enable
 these features in a single Tool power on
 password, set up password , USB port
 disable with life cycle management tool
 Support : Drivers should be available for
 download from OEM site for at least 3
 years from the date of the purchases
 order. (drive cab to be available in
 support site).

Reception Cum Waiting Area

Size : 12000 x 9145

1	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9 mm grid system (NRC 0.8) and supports as required.	1200	1200	Sq. Ft.
2	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	12	12	Nos.

Asm

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90

3	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350lm Material: Aluminum.	30	30	Nos.	
4	Room Electrical Work	Providing, fixing, testing and replacement work of VC Room with new material, which includes complete wiring work, MCB, Main junction Box, DB replacing, Power function, Main supply box, Power Cable, Power switches, Switches & Sockets for LED lights and Fans, Copper wire, Drainage pipe and power cable for AC, Electrical Conduit, etc.	1	1	Job	

As per

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(Pm)
91

5	Reception Table	Supplying & placing reception table in completely knock down conditions with an overall size 2400mm X 700mm X 1000mm that is to be assembled at site. The worktop shall have the combination of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and shade as top and 25mm thick Medium density fibre-board with deco painted as base top with aesthetically grooves. The upper top shelf shall be made up of 25mm thick Pre-laminated particle board. It should be supported on 25mm thick particle board base vertical panel. The table profile shall be in curved shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. A pullout keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 550mm X 280mm. The tray shall be operated on sliding channel. The table shall be clad with 1mm thick modesty panel which provide structural support for the table. It should be 1mm thick CRCA with perforated sheet duly powder coated connected with both end. The main top shall be supported on SS peg at front which mounted on the fixed pedestal and 4 nos. of legs made up of MDF board having cross-section area 100mm X 100mm. Fixed pedestal shall be provided with an overall size 400mm X 500mm X 610mm. The pedestal shall be made up of Pre-laminated particle board of grade II of IS 12823. Pedestal side, back, facia shall be 18mm thick & drawer base shall be 9mm thick. The pedestal shall have 3 nos. of drawer having same size. The drawer shall be operated with SS handle and easily close & open with the assistance of roller	1	1	Nos.

As per

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92

channel to enable smooth movement. The drawer shall be synchronized locked with central locking mechanism by one single key. All the size shall have the tolerance of upper and lower deviation of $\pm 10\text{mm}$ for board & $\pm 0.2\text{mm}$ for metal. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.

AS Motor

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ABM

93

6	Reception Chair	<p>Providing and supplying High back chair. The seat and back shall be made of high resilience polyurethane foam having 40mm thick and density 40kg/m³ in seat and 40mm thick and density 32kg/m³ in back. The seat and back shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine with lumbar support. The seat and back shall be arrested together with net tapestry. The armrest shall be used chrome plated metal frame with leatherette tapestry completely joint with seat and back. For seating durability the chair shall have knee tilt 360 degree revolving mechanism and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 65mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA standard. Heavy Duty Polished & Chromed Pedestal (Chair Base). Standard 50 mm(ID) X 100 mm(L) center hub hole to receive standard BIFMA standard class-3 gas-lift. The pedestal should have five legged, Specially designed and drawn from MS/CRCA Pipe Starts as Oval 45.5±2 mm(L) X 28.8±2 mm(W) X 2.0 mm(T) moving towards caster wheel fitting holes of 16.3±2 mm(OD) X 11.10±0.5 mm(ID) from Round Pipe MS/CRCA of Dia. 38.1±2 mm(OD) X 2.0mm(T) X 775±10 mm(L). Pedestal's legs are welded and aligned in pitch circle Dia. 700±10 mm from center of the hub to the center of mounting of caster's wheels, Chromed with 20-25µ (DFT) thick And Fitted with 5 nos. twin wheel castors covered with chromed PPC. The castors of the chair should be injection moulded in black nylon 30% glass filled,</p>	2	2	Nos.
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ABM

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ABM
94

		confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. HD- Built to hold more weight and withstand more than standard chair bases. Polished finish for elegant look. Specially Designed 5 Star base cover of PPCP of 46.5mm(ID) 120mm(L) for Elegant look to cover welding Joints with Beautiful chromed finish.			
7	Visitor Bench	Supplying & Placing three seater bench. The seat and back shall be made up of high quality cold rolled MS perforated sheet of 1.2mm thick, pressed and welded to form the shape. The seat and back electrostatically coated with epoxy powder and then cured under heat to allow it to form a skin. The armrest shall be made up of mild steel powder coated tube with 1.2mm thick. The base structure shall be supported by MS powder coated with 50-60 μ (DFT). There shall be PPCP shoe provided at the base to avoid scratches on the floor. The seat size shall be 440 \pm 10 mm(D) X 405 \pm 10 mm(H) from ground. Overall height shall be = 775 \pm 10 mm, overall depth = 710 \pm 10 mm & overall width = 1765 \pm 10 mm.	5	5	Nos.

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Patnaik
95

Room Size 0110 X 0300					
1	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9 mm grid system (NRC 0.8) and supports as required.	450	450	Sq. Ft.
2	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	6	6	Nos.
3	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.	12	12	Nos.
4	Room Electrical Work	Providing, fixing, testing and replacement work of VC Room with new material, which includes complete wiring work, MCB, Main junction Box, DB replacing, Power function, Main supply box, Power Cable, Power switches, Switches & Sockets for LED lights and Fans, Copper wire, Drainage pipe and power cable for AC, Electrical Conduit, etc.	1	1	Job

Azhar

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PKW

5	Reading Table	Size:- Length:2100mm, Width:900mm, Height:750mm. T – Frame made of press formed MS cold rolled close annealed sheet and tubes, MIG/TIG & Spot welding for fabrication. Top made of 18mm thick pre-laminated particle board. Side Edges covered with PVC edge band on edge bending machine. Perforated modesty panel at centre of table. All steel components are epoxy powder coated after seven tanks anti corrosion treatment of surface.	3	3	Nos.
4	Chair	Providing and supplying visitor chair without arm. The seat shall be made of 15mm thick hot pressed commercial plywood upholstered with high resilience polyurethane foam (25+19)mm thick having density 40 kg/m ³ with foam net tapestry 0.9mm thick and 300 GSM and the back shall be made of MS/CRCA pipe frame upholstered with breathable mesh tapestry. The seat and back shall be arrested together metal pipe frame. The frame structure shall be fixed cantilever support type made up of MS/CRCA chrome plated round pipe of dia. 16mm with 1.5mm thick. There shall be PPCP shoe provided at the base to avoid scratches on the floor. The seat size shall be 500±10 mm(D) X 465±10 mm(W) and back size shall be 450±10 mm(W) X 440±10 mm(H) from seat. Overall height shall be = 870±10 mm, overall depth = 610±10 mm.	18	18	Nos.

Entrance Area of Building

1	Entrance facade	1	1	Job
2	Scaffolding System			
3	Wall Art Work			
4	Idol of Sarawati Ji			
5	LED Lights	8	8	Nos.
6	Wall Fans	8	8	Nos.

Azhar

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Jtm

Examination Block Ground Floor

Sl.no.	Item Name	Description & Specifications	Qty.	Value
	VC Room: 6000X9230			
1	Wall Paneling	<p>UP TO 2 FEET FROM FLOOR- Providing and Fixing wooden wall panelling fabricated from MS pipe/ tube of 25mm X 25mm, 12 mm thick Ply which will be finished with paint/ Laminate Sunmica.</p> <p>ABOVE 2 FEET- Providing & fixing of 37.5mm-50mm wooden wall paneling fabricated from MS pipe/ tube of 25mm X 25mm made up of 12mm MDF (± 1 mm), duly finished with cloth/ polish/ paint.</p>	1150	Sq. Ft.
2	Wooden Flooring	Supplying, fitting and fixing 6mm thick Laminated wooden Flooring Work with plank size not less than 1200 mm X 190 mm having 0.2mm thk top abrasive layer over a decorative layer followed by a High-density fibreboard (HDF) substrate core over a resin saturated backing layer and installing through unilin or tongue- groove system (having locking strength) over a 2 mm thk underlayer polyurethane foam on polythene sheet 250 micron, over a smooth, flat, hard subfloor free from moisture (< 8%), grease etc. complete in all respect with requisite accessories like end profile, transition profile, reducer 'T' profile etc.	650	Nos.
3	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9 mm grid system (NRC 0.5 and supports as required.	650	Sq. Ft.
4	Paint and Polish	Providing & applying on all exposed surface of ceiling, etc., Plastic Emulsion Paint of 'Asian Paints', 'Nerolac' or equivalent make as per the manufacturer's specification with a brush & roller. Base coat of approved primer before applying two coats of paint. Painting of wall with minimum of 2 coats of plastic emulsion paint of approved shade and make of the wall, Columns, Beams, Plywood or Gypboard including all necessary surfaces preparation. The wall shall be cleaned, filled with putty & applied with one coat of primer so as to achieve an even surface to apply paints.	1	Job

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5	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	6	Nos.
6	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.	12	Nos.
7	Room Electrical Work	Providing, fixing, testing and replacement work of VC Room with new material, which includes complete wiring work, MCB, Main junction Box, DB replacing, Power function, Main supply box, Power Cable, Power switches, Switches & Sockets for LED lights and Fans, Copper wire, Drainage pipe and power cable for AC, Electrical Conduit, etc.	1	Job
8	Curtains	BLENDS- Fabric Blend with varied design and as per room layout.	1	Job
9	Photo Frames on Wall	Photo frames of our Hon'ble Prime Minister and Governor of size 15"X 20" is to be installed on the walls.	1	Job

Azam

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99

10	Executive Table for VC	Supplying & Placing Modular table in completely knock down conditions with an overall size 2400mm X 2000mm X 750mm that is to be assembled at site. The worktop shall have the size 2400mm X 1000mm made up of 25mm thick Medium Density Fibre-board with approved veneer laminate and PU polish accordingly. The table top profile shall be in rectangle shape with round corners and full round post forming edges. Single sided Flip-up box shall be enclosed at table top that houses telephone cable, data and power connection discretely. The table top shall be supported on MDF board based gable end. The end wall of the table on the side shall be topped by gable end. It should be made up of 25mm thick medium density fibre-board and profile shall be in moulded construction with full round post forming edges and duly deco painted. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick medium density fibre-board in linear shape with appropriate PVC edge banding and veneer laminate. There shall be buffers provided at the base to avoid scratches on the floor. The table shall have side unit for storage purpose with an overall size 1770mm x 510mm X 620mm. It shall have 2 nos. of drawer, 2 nos. of door shutter and 1 nos of sliding shutter. The drawer shall be operated with profile handle and easily close & open with the assistance of sliding channels to enable smooth operation and sliding rail track and concealed crank hinge. To protect the wall from kicks, abrasion and serve as a decorative moulding, skirting shall be provided at bottom. The complete structure shall be supplied with approved veneer laminate, PU polish and deco painted. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification.	1	Nos.
11	Back Wall Storage	Supplying & placing storage unit with an overall size 1800mm X 400mm X 2000mm. It should be made up of Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The top of the storage shall have 50mm thick cantor top with full round post form. All other profile i.e. side, back, shutter, shelf, skirting shall be 18mm thick and base 9mm thick. The edges shall be sealed with thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The storage shall be supplied with 12 nos. of shelf, 2 nos. of drawer and 6 nos. of door shutter. The glass shutter shall be used with 4mm thick clear glass insert within PLPB profile. The shutter and drawer shall be operated with concealed crank hinge and roller	1	Nos.

A. Ashur

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		channel as well as SS handle. To protect the wall from kicks, abrasion and serve as a decorative moulding skirting shall be provided at bottom. There shall be buffers provided at the bottom to avoid scratches on the floor. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The boards used should meet international standards of quality and safety, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of elasticity bending tested as per IS 2380.		
12	Executive High Back Chair	Providing and supplying a high back chair with ergonomic design, comfortable & aesthetically appealing. The seat and back shall be made of double layered moulded (15+6)mm thick hot pressed commercial plywood padded with high resilience polyurethane foam (40+30+19)mm thick having density (40 & 32)kg/m ³ in seat and (40+25)mm thick having density 32kg/m ³ in back. The seat and back shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide full back support as well as head support. The chair shall be supplied with chrome plated arm with cushion having leatherite covering top and MS powder coated steel spine shall be fixed with seat and back. For seating durability the chair shall have synchro knee tilt 360 degree revolving mechanism with four position locking and tilt tension adjustment which provides back strength for the chair. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 65mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The Pedestal should have five legged made of PP chrome having pitch circle dia. 660 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA X5.1-2011 standards tested to perform 98,000 cycles with 250lbs load. The seat size shall be 500±10 mm(D) X 525±10 mm(W) and back size shall be 530±10 mm(W) X 680±10 mm(H) from seat. Overall height shall be = 1150±10 mm, overall depth = 630±10 mm & overall width = 650±10 mm.	1	Nos.

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13	Visitor Chairs	Providing and supplying a medium back chair with ergonomic design, comfortable & aesthetically appealing. The seat and back shall be made of double layered moulded (15+6)mm thick hot pressed commercial plywood padded with high resilience polyurethane foam (40+30+19)mm thick having density (40 & 32)kg/m ³ in seat and (40+25)mm thick having density 32kg/m ³ in back. The seat and back shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide full back support. The chair shall be supplied with chrome plated arm with cushion having leatherite covering top and MS powder coated steel spine shall be fixed with seat and back. For seating durability the chair shall have synchro knee tilt 360 degree revolving mechanism with four position locking and tilt tension adjustment which provides back strength for the chair. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 65mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The Pedestal should have five legged made of PP chrome having pitch circle dia. 660 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA X5.1-2011 standards tested to perform 98,000 cycles with 250lbs load. The seat size shall be 500±10 mm(D) X 525±10 mm(W) and back size shall be 530±10 mm(W) X 555±10 mm(H) from seat. Overall height shall be = 1025±10 mm, overall depth = 630±10 mm & overall width = 650±10 mm.	5	Nos.
14	Almirah For Storage	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. Door shall be made of 0.8mm thick and all other components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60 μ .	1	Nos.

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15	Sofa Set (3+1+1)	Supplying and placing three seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m ³ in seat and 32Kg/m ³ in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 40Kg/m ³ . The structure shall be upholstered with leatherite tapestry 1±0.2 mm thick and 571 GSM. The understructure shall consist of pipe frame loop leg of SS shiny chrome finish having cross-section area 40mm X 20mm. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat size shall be 510±10 mm(D) X 1540±10 mm(W), seat height = 435±10 mm, overall width = 1860±10 mm, overall depth = 770±10 mm & overall height = 780±10 mm.	1	Set
		Supplying and placing single seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m ³ in seat and 32Kg/m ³ in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 40Kg/m ³ . The structure shall be upholstered with leatherite tapestry 1±0.2 mm thick and 571 GSM. The understructure shall consist of pipe frame loop leg of SS shiny chrome finish having cross-section area 40mm X 20mm. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat size shall be 510±10 mm(D) X 540±10 mm(W), seat height = 435±10 mm, overall width = 860±10 mm, overall depth = 770±10 mm & overall height = 780±10 mm.		
16	Center Table	Centre Table, SS Pipe Frame, Chrome Finish, Toughened Black Glass Top 12mm Thick, Lower Glass 8mm Thick 1200x600	1	Nos.
17	Corner Table	Centre Table, Toughened Glass, 12mm Thick, Chrome Plated Pipe Frame 450 x 450	2	Nos.
18	Interactive Flat Panel Display (75 Inches)	Parameter	Specifications	Nos.
	Screen size	75"		
	Resolution	UHD 3840 × 2160 pixels		
	Brightness	500 nits		

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(typical)	
Contrast ratio (typical)	5000:1
Response time	4 ms
Light life (typical)	50,000 hrs
Smart Eye protection	Interactive display should have smart eye protection.
Glass	
Hardness	4 mm tempered AG Glass
Anti-glare coating	Interactive display should have Anti-glare coating
Touch screen	
Touch technology	Infrared touch
Touch points	20 touch points
Touch response time	< 4 ms
System	
CPU	Quad core 1.9 Ghz
Memory	4GB DDR3/DDR4
Storage	32GB and expandable up to 512 GB
OS	Android 11.0
Input/ Output ports	
Input Ports (minimum)	3 x HDMI, 1x VGA, 1x Audio in, 1 x Slot-in PC (OPS)
Output Ports (minimum)	1x Audio out
USB Ports (minimum)	4 x USB 3.0 Type A, 1 x USB 2.0 Type A, 2 x USB Type B (touch)
Communication Ports (minimum)	1x RS232 In, 1 x RJ45 ethernet port
Built-in peripherals	
Speaker	Stereo Sound with in-built 25 Watt x 2 speakers and subwoofer of 20 watt
Magnetic pen holder	Should have inbuilt magnetic pen holder with up to two pens
Tutor friendly experience	Should have control buttons on Interactive display like Volume UP/Down, Home, Back, Menu, Touch on/off & Power Buttons for ease in teaching.
Quiz	Should have in built tool to allow participants to submit answers from their Smart Phones (Answering/Voting/Messaging)
Built in Wi-fi	Should have inbuilt Dual band Wi-fi (2.4 & 5Ghz)
Built-in Hotspot	Should have inbuilt Hotspot with internet sharing across the connected devices
Built-in Bluetooth	Should have inbuilt Bluetooth version 5.0 or latest

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Stylus	Should have minimum 2 Nos of Stylus
Remote control	Should have remote control to operate the Interactive display
Software	
Whiteboard Interactive Software	Should have inbuilt whiteboard software for teaching/ training using Interactive display with features like (Pen, thickness of pen, colours of pen, Pixels eraser and Region eraser, Shapes (Circle, Triangle, Rectangle, arrows), Background of White board (multiple colours also use picture, shape), Redo/Undo, Next/Previous, Select & Drag option, Switching between single touch and multiple touch, Clear screen, List of pages with deleting option, Switching tool bar right to left, Many other Tools (Compass, Protector, Insert Table, Calculator, Curtain, Timer, Calendar, Camera, Spotlight, Multiscreen (divide board in 2,3, and 4 parts with background colour and different pen colour), on screen annotation. Interactive software should be of the same OEM. Interactive software of the interactive Display should detect the Visual Presenter/ Visualiser and should be able to annotate on the image captured by the Visual Presenter/ Visualiser.
Wireless screen sharing	Interactive display should allow user to share/mirror the content of Laptop/Desktop and mobile device(Android) wirelessly and should have Screen Share software to show up to 4 Multiple screen at same time.
Quick access tool	Floating Tool should be available on all screen for quick access tools and same should be customized as per user requirement.
Play Store Support	Should have Built in Google Play store to download applications direct from Play store
YouTube	Should have Built in YouTube application and should support up to 4K resolution.
Inbuilt Cloud drive	Interactive display should have inbuild cloud drive access from Google drive & one drive
Software based Video conferencing	Device should support software based VC with internal android platform like Google meet, Cisco WebEx, Skype, Microsoft teams & zoom applications.
Multiple controlling menu	Should have Multi Controlling menu including Side menu, floating menu and pull up menu.
Gesture Control	Should have gesture control like Hold five fingers on screen for Interactive display sleep mode, hold and move three fingers on screen for Floating menu & swipe the screen Upside for Pull up menu control.
Split Screen	Interactive display should have inbuilt split screen user should be able to split the screen to operate multitask like play a video in half of screen and open whiteboard in other half side.
Smart USB Port	All USB 3.0 port should support Smart USB sharing for Android, Internal PC or other External PC / Device
Multilanguage GUI	Device should have GUI interface in both Hindi and English Language
Virtual Keyboard	Device should have inbuilt virtual keyboard with English to Hindi writing support.
Enhanced	Should have provision to lock all the USB port, Screen Lock,

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Security	application lock to restrict unwanted access.			
Touch On/Off Button	Should have provision for Touch On/Off on front of Display			
Sound enhancement	Should have inbuilt Volume equalizer and surround sound support to enhance the sound quality.			
Screen Recording	Should have built in Screen recording feature supports up to full HD resolutions			
Screen Shot	Should have built-in screen shot option using single click			
Power				
Power	AC 100-240V 50/60Hz			
Maximum Power Consumption	300 W			
Standby Power Consumption	<0.5 W			
Environment				
Operating temperature	0°C ~ 45°C			
Operating Humidity	10% ~ 80% RH Non-Condensing			
Accessories	Wall mount Kit, 1x HDMI Cable (1.5 Meter), 1x USB A to B cable (1.5 Meter), 1x Power Cable (1.5 Meter)			
Certifications	BIS certification required			
Technical Specifications for OPS				
Parameter	Specifications			
Type Detachable	PC module			
CPU Intel Core	i5 10th Generation			
RAM	8 GB			
SSD	256 GB			
Operating system	Windows10			
I/O Ports	HDMI x 1, USB ports x 4, LAN Port x 1			
Max Power	50W or less			
19	Room Aesthetics	Providing Name Plates on room doors and automatic room freshers will be installed in the room and also do the plantation in the room and also place some idols of saraswati ji or Bhartrhari Ji.	1	Job
20	Air Conditioner	SITC of Air Conditioner of 3Star 1.5 Ton <ul style="list-style-type: none"> • Feature Support 1.5 Ton Capacity • Feature Support Auto Restart • Feature Support Front Panel Display • Feature Support Rotary Compressor with Copper Fins • Installation Complete installation with Copper Pipes, Cables etc. 	3	Nos.

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23	Computers	<p>Processor : 12th Generation Intel® Core™ i5-12600, 18MB cache, 6 cores, 12 threads, 3.30GHz to 4.80GHz, 65W</p> <p>Chipset : Intel B660 Chipset</p> <p>Graphics: Integrated UHD Graphics 700 series compatible with processor</p> <p>Memory: 8 GB DDR4 RAM 3200 MHz expandable up to 64 GB with min 2 DIMM Slots</p> <p>Ports : 1 RJ-45 port 10/100/1000 Mbps , 8 USB Ports (Min. 4 USB 3.2 ports), 1 Universal Audio Jack, 1 DisplayPorts 1.4, 1 HDMI 1.4b</p> <p>Slots : 3 full-height PCIe Gen 3 slots (Min. 1 full height PCIe x16) , 2 M.2 slots (Wireless + Storage)</p> <p>Primary Hard Drive : 512 GB M.2 PCIe NVMe SSD</p> <p>Display : 19.5" display with 1600 x 900 resolution</p> <p>LAN : Integrated Gigabit Ethernet LAN 10/100/1000</p> <p>WLAN : Wi-Fi 802.11.ac + Bluetooth 5.0</p> <p>Form Factor : Tower with Intrusion Switch not more than 14.9 Ltr</p> <p>Power Supply : 180W internal power supply unit (PSU), 85% Efficient</p> <p>Mouse : USB Keyboard (same make as pc)</p> <p>Keyboard : USB Keyboard (same make as pc)</p> <p>Operating System : Windows 11 Pro 64 Bit</p> <p>Security : Discrete TPM 2.0 (Hardware)</p> <p>Certification : Energy star 6.0, EPEAT India Certified for Desktop & TCO 8.0 for Monitor, MIL STD 810 G (min.11)Test passed, ISO 9001:2008 certification</p> <p>BIOS : Configuration Tool to Enable these features in a single Tool power on password, set up password , USB port disable with life cycle management tool</p> <p>Support : Drivers should be available for download from OEM site for at least 3 years from the date of the purchases order. (drive cab to be available in support site).</p>	1	Nos.





VC Rest Room : 5192X3115

1	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 12 mm grid system (NRC 0.8) and supports as required.	200	Sq. Ft.
2	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.	8	Nos.

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3	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	4	Nos.
4	Sofa Cum Bed	Sofa Dimension(Inch): 73 L x 30 W x 30.5 H Bed Dimensions(Inch): 72 L x 64 W x 27 H Shape: Rectangular Style: Modern Armrest: Yes Cushion Type: Firm Side Storage: Yes Product Quantity: 1 unit Product Weight: 50 Kg	1	Nos.
5	Center Table	Supplying & placing center table with an overall size 1200mm X 600mm X 450mm. The top shall be made up of 12mm thick toughened glass. The top profile shall be in rectangle shape with bevelled edges. The top shall be supported on vacuum caps situated over SS 202 grade pipe frame. A hanging storage shelf shall be provided below the top of SS with an overall size 820mm X 390mm with the assistance of 31 nos. small round strips having 5mm dia. The under structure shall have SS 202 grade pipe frame having size 30mm X 10mm. 2 nos. foot step shall be provided between the pipe frame with size 30mm X 10mm. There shall be shoe provided at the bottom to avoid scratches on the floor.	1	Nos.
6	2 Seater Sofa	Supplying and placing two seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m ³ in seat and 32Kg/m ³ in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 32Kg/m ³ . The complete structure shall be upholstered with black leatherite tapestry 1±0.2 mm thick and 571 GSM. The frame shall be supported on MS powder coated pipe frame having cross-section size 25mm X 25mm. The	1	Nos.

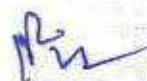
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		understructure shall consist of four legs of MS powder coated. There shall be PPCP shoe provided at bottom to avoid the scratches on the floor. The seat size shall be 540±10 mm(D) X 1100±10 mm(W), seat height = 420±10 mm, overall width = 1350±10 mm, overall depth = 810±10 mm & overall height = 820±10 mm.		
7	Almirah For Storage	Size: height:1980mm width:910mm depth:485mm Body part made-up of prime quality cold rolled close annealed Sheet Use only MIG/TIG & Spot welding for fabrication.4 adjustable shelf. Three way locking device with six levers superior quality lock for Door. Doors are mounted on steel hinge brackets. Body 22 Gauge, Door 20 Gauge. All steel components are epoxy powder coated followed by seven tanks anti corrosion treatment of surface.	2	Nos.
8	Air Conditioner	SITC of Air Conditioner of 3Star 1.5 Ton <ul style="list-style-type: none"> • Feature Support 1.5 Ton Capacity • Feature Support Auto Restart • Feature Support Front Panel Display • Feature Support Rotary Compressor with Copper Fins • Installation Complete installation with Copper Pipes, Cables etc. 	1	Nos.
Video Conferencing Room: 6000 X 9115				
1	Acousitcs Treatment for all Walls	Providing and fixing Acoustical Wall Paneling:- UP TO 2 FEET FROM FLOOR - Providing and Fixing wooden wall paneling fabricated from MS pipe/ tube of 25mm X 25mm having Insulation Fiber comprising of Glass Wool of 24kg Cub./Mtr. or Rockwool of 40kg Cub./Mtr. density to be filled between wall and 12 mm thick mdf which will be finished with polish/ Laminate Sunmica. ABOVE 2 FEET - Providing & fixing of 50mm wooden wall paneling fabricated from MS pipe/ tube of 25mm X 25mm @ 2'0" cc, made up of 12mm MDF which is duly filled with eco-friendly material (sound proof), duly finished with cloth/ polish/ paint. Sound proof ecofriendly system consists of 50mm filler with 25mm insulation fiber/glass wool padding which is finally covered with proper air gapping as per eco - sound arrangement.	1100	Sq. Ft.
2	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9 mm grid system (NRC 0.8) and supports as required.	650	Sq. Ft.
3	Flooring	Providing and Layering of Jute Carpet Roll of size 2Mtr x 30 Mtr as per the approved shades by the department. The carpet will be fixed on the floor with proper Adhesive.	650	Sq. Ft.





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4	Acoustics Door	Providing and fixing of 35mm thick single leaf Acoustic Door of size 2100*1050 and the door hardware including door closer, handle, lock and a door stopper.	1	Door
5	Paint and Polish Work	Providing & applying on all exposed surface of ceiling, etc., Plastic Emulsion Paint of 'Asian Paints', 'Nerolac' or equivalent make as per the manufacturer's specification with a brush & roller. Base coat of approved primer before applying two coats of paint. Painting of wall with minimum of 2 coats of plastic emulsion paint of approved shade and make of the wall, Columns, Beams, Plywood or Gypboard including all necessary surfaces preparation. The wall shall be cleaned, filled with putty & applied with one coat of primer so as to achieve an even surface to apply paints	1	Job
6	Closure of Windows	All the windows in the rooms shall be closed with the APC Sheet.	1	Job
7	Room Electric Work	Providing, fixing, testing and replacement work of room with new material, which includes complete wiring work, MCB, Main junction Box, DB replacing, Power function, Main supply box, Power Cable, Power switches, Switches & Sockets for LED lights and Fans, Copper wire, Drainage pipe and power cable for AC, Electrical Conduit, etc.	1	Job
8	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.	16	Nos.
9	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	10	Nos.

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10	Split Air Conditioner	SITC of Air Conditioner of 3Star 1.5 Ton • Feature Support 1.5 Ton Capacity • Feature Support Auto Restart • Feature Support Front Panel Display • Feature Support Rotary Compressor with Copper Fins • Installation Complete installation with Copper Pipes, Cables etc.	4	Nos.
11	CCTV Surveillance	The Seminar Hall should be equipped with CCTV surveillance. CCTV camera's should be placed as per the hall requirement and should covered all the areas of the hall. The cameras should be Wi-Fi enabled and should support Micro SD Card based recording. The camera should be of latest technology with low light feature and fitted with all the accessories required. All the equipments should be placed in the 6U wall mount racks. 4 Nos. of Camera will be installed with 4 Channel power supply of same brand or equivalent.	1	Job
12	Conference Table	Supplying & Placing Conference table in completely knock down conditions with an overall size 5400mm X 1500mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix, dowels, pins and brackets. The worktop shall have the combination of PLPB board and MDF board. The main top should be made up of back to back 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and the base top shall be made up of 25mm thick Medium density fibre-board with deco matt finish. The table top profile shall be boat like shape with round corners. The edges edge shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius and the base top shall be with half round post form with grooves. The table shall be supported on particle board base gable end. The end wall of the table on the side and mid shall be topped by gable end. It should be made up of 36mm thick Pre-laminated particle board and profile shall be in linear shape with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick Pre-laminated particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the base to avoid scratches on the floor. The table connections have to be made in such a way that no gap should be seen in between. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and	1	Nos.

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		AIOTA certification.		
13	Conference High Back Chair	Supplying and placing ergonomically designed, comfortable & aesthetically appealing High back chair. The seat shall be made of double layered moulded (18+6)mm thick hot pressed commercial plywood upholstered with high resilience polyurethane foam (40+30)mm thick having density 40kg/m ³ with black leatherite tapestry 0.8mm thick and 535 GSM and the back shall be made of double layered moulded hot pressed plywood (18+6)mm thick upholstered with high resilience polyurethane foam (30+25)mm thick having density 32kg/m ³ with black leatherite tapestry 0.8mm thick and 535 GSM with contoured lumbar support which helps to provide full back support and maintain the natural curvature of the spine.. The seat and back shall be fixed with plywood and the armrest shall be used metal base chrome finish cushion arm with leatherite tapestry completely joint with seat and back. The chair shall have swivel tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height upto 65mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The Pedestal shall be made up of MS CRCA chrome plated having pitch circle Dia 700 mm fitted with 5 nos. 50mm twin wheel castors which shall be made of injection moulded black nylon 30% glass filled having self-lubricating property for friction free movement with BIFMA standards. The seat size shall be 500±10 mm (D) X 480±10 mm (W) and back size shall be 520±10 mm (W) X700 ±10 mm (Ht) from seat. Overall height shall be = 1160±10 mm, overall depth = 700±10 mm & overall width = 650±10 mm.	1	Nos.

14	Medium Back Conference Chair	Supplying & Placing Visitor Chair ergonomically designed for user comfort & shall have aesthetically appealing design. The seat shall be made of double layered moulded hot pressed plywood (12+6)mm thick upholstered with high resilience polyurethane foam (40+30)mm thick having density 40kg/m ³ with black leatherite tapestry 0.8mm thick and 535 GSM and the back shall be made of double layered moulded hot pressed plywood (12+6)mm thick upholstered with high resilience polyurethane foam (32+25)mm thick having density 32kg/m ³ with black leatherite tapestry 0.8mm thick and 535 GSM with lumbar support. The seat and back shall be fixed with L-type plywood and the armrest shall be used metal base chrome plated cushion arm completely joint with seat and back. The frame structure shall be cantilever support type made up of MS CRCA chrome plated round pipe of Dia 28.5mm with 2mm thick. There shall be PPCP shoe provided at the base to avoid scratches on the floor. The Seat size shall be 500±10 mm(D)X500±10 mm(W) and back size shall be 500±10 mm(W)X 560±10 mm(Ht) from seat. Overall height shall be = 1000±10 mm, overall depth = 700±10 mm & overall width = 610±10 mm	14	Nos.																						
15	Visitor Chairs	We are providing ergonomical, comfortable and aesthetically design medium back chairs. The seat and back shall be made of hot pressed moulded double layered plywood 16mm thk and Urethane foam upholstered (Foam density 40kg/m ³) with Leatherette tapestry. The back shall be Urethane foam upholstered (Foam density 32kg/m ³) with Leatherette tapestry. The armrests are made of CRC pipe 50mm X 15mm X 1.6mm chrome plated and cushion with foam and Leatherette tapestry.	18	Nos.																						
16	IFPD 75 Inches	<table border="1"> <thead> <tr> <th>Parameter</th><th>Specifications</th></tr> </thead> <tbody> <tr> <td>Screen size</td><td>75"</td></tr> <tr> <td>Resolution</td><td>UHD 3840 x 2160 pixels</td></tr> <tr> <td>Brightness (typical)</td><td>500 nits</td></tr> <tr> <td>Contrast ratio (typical)</td><td>5000:1</td></tr> <tr> <td>Response time</td><td>4 ms</td></tr> <tr> <td>Light life (typical)</td><td>50,000 hrs</td></tr> <tr> <td>Smart Eye protection</td><td>Interactive display should have smart eye protection.</td></tr> <tr> <td>Glass</td><td></td></tr> <tr> <td>Hardness</td><td>4 mm tempered AG Glass</td></tr> <tr> <td>Anti-glare coating</td><td>Interactive display should have Anti-glare coating</td></tr> </tbody> </table>	Parameter	Specifications	Screen size	75"	Resolution	UHD 3840 x 2160 pixels	Brightness (typical)	500 nits	Contrast ratio (typical)	5000:1	Response time	4 ms	Light life (typical)	50,000 hrs	Smart Eye protection	Interactive display should have smart eye protection.	Glass		Hardness	4 mm tempered AG Glass	Anti-glare coating	Interactive display should have Anti-glare coating	1	Nos.
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Anti-glare coating	Interactive display should have Anti-glare coating																									

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Touch screen	
Touch technology	Infrared touch
Touch points	20 touch points
Touch response time	< 4 ms
System	
CPU	Quad core 1.9 Ghz
Memory	4GB DDR3/DDR4
Storage	32GB and expandable up to 512 GB
OS	Android 11.0
Input/ Output ports	
Input Ports (minimum)	3 x HDMI, 1x VGA, 1x Audio in, 1 x Slot-in PC (OPS)
Output Ports (minimum)	1x Audio out
USB Ports (minimum)	4 x USB 3.0 Type A, 1 x USB 2.0 Type A, 2 x USB Type B (touch)
Communication Ports (minimum)	1x RS232 In, 1 x RJ45 ethernet port
Built-in peripherals	
Speaker	Stereo Sound with in-built 25 Watt x 2 speakers and subwoofer of 20 watt
Magnetic pen holder	Should have inbuilt magnetic pen holder with up to two pens
Tutor friendly experience	Should have control buttons on Interactive display like Volume UP/Down, Home, Back, Menu, Touch on/off & Power Buttons for ease in teaching.
Quiz	Should have in built tool to allow participants to submit answers from their Smart Phones (Answering/Voting/Messaging)
Built in Wi-fi	Should have inbuilt Dual band Wi-fi (2.4 & 5Ghz)
Built-in Hotspot	Should have inbuilt Hotspot with internet sharing across the connected devices
Built-in Bluetooth	Should have inbuilt Bluetooth version 5.0 or latest
Stylus	Should have minimum 2 Nos of Stylus
Remote control	Should have remote control to operate the Interactive display
Software	
Whiteboard Interactive Software	Should have inbuilt whiteboard software for teaching/ training using Interactive display with features like (Pen, thickness of pen, colours of pen, Pixels eraser and Region eraser, Shapes (Circle, Triangle, Rectangle, arrows), Background of White board (multiple colours also use picture, shape), Redo/Undo, Next/Previous, Select & Drag option, Switching between single touch and multiple touch, Clear screen, List of pages with deleting option, Switching tool bar right to left, Many other Tools (Compass, Protector, Insert Table,

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	Calculator, Curtain, Timer, Calendar, Camera, Spotlight, Multiscreen (divide board in 2,3 and 4 parts with background colour and different pen colour), on screen annotation. Interactive software should be of the same OEM. Interactive software of the interactive Display should detect the Visual Presenter/ Visualiser and should be able to annotate on the image captured by the Visual Presenter/ Visualiser.
Wireless screen sharing	Interactive display should allow user to share/mirror the content of Laptop/Desktop and mobile device(Android) wirelessly and should have Screen Share software to show up to 4 Multiple screen at same time.
Quick access tool	Floating Tool should be available on all screen for quick access tools and same should be customized as per user requirement.
Play Store Support	Should have Built in Google Play store to download applications direct from Play store
YouTube	Should have Built in YouTube application and should support up to 4K resolution.
Inbuilt Cloud drive	Interactive display should have inbuild cloud drive access from Google drive & one drive
Software based Video conferencing	Device should support software based VC with internal android platform like Google meet, Cisco WebEx , Skype, Microsoft teams & zoom applications.
Multiple controlling menu	Should have Multi Controlling menu including Side menu, floating menu and pull up menu.
Gesture Control	Should have gesture control like Hold five fingers on screen for Interactive display sleep mode, hold and move three fingers on screen for Floating menu & swipe the screen Upside for Pull up menu control.
Split Screen	Interactive display should have inbuilt split screen user should be able to split the screen to operate multitask like play a video in half of screen and open whiteboard in other half side.
Smart USB Port	All USB 3.0 port should support Smart USB sharing for Android, Internal PC or other External PC / Device
Multilanguage GUI	Device should have GUI interface in both Hindi and English Language
Virtual Keyboard	Device should have inbuilt virtual keyboard with English to Hindi writing support.
Enhanced Security	Should have provision to lock all the USB port, Screen Lock, application lock to restrict unwanted access.
Touch On/Off Button	Should have provision for Touch On/Off on front of Display
Sound enhancement	Should have inbuilt Volume equalizer and surround sound support to enhance the sound quality.
Screen Recording	Should have built in Screen recording feature supports up to full HD resolutions
Screen Shot	Should have built-in screen shot option using single click.
Power	
Power	AC 100-240V 50/60Hz

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Maximum Power Consumption	300 W
Standby Power Consumption	<0.5 W
Environment	
Operating temperature	0°C ~ 45°C
Operating Humidity	10% ~ 80% RH Non-Condensing
Accessories	Wall mount Kit, 1x HDMI Cable (1.5 Meter), 1x USB A to B cable (1.5 Meter), 1x Power Cable (1.5 Meter)
Certifications	BIS certification required

Technical Specifications for OPS

Parameter	Specifications
Type Detachable	PC module
CPU Intel Core	i5 10th Generation
RAM	8 GB
SSD	256 GB
Operating system	Windows10
I/O Ports	HDMI x 1, USB ports x 4, LAN Port x 1
Max Power	50W or less

17	Digital Podium	1	Nos.	
	Feature	Descriptions		
	Type/Mounting	Free Standing		
	Construction	<p>The Podium shall be wheel mounted capable of moving in all directions with a facility of lock them while the Electronic podium is in use. The enclosure shall be made of Polymer Powder Coated Steel Body with wooden top panels, designed to work in suitable environmental conditions. The wooden top shall have lock and key and should have a sliding cover for opening/closing easily. The Podium should have housing and connectivity for Visual Presenter while the visualiser is in use and not in use. At the time of using the Visualiser, drawer can be opened and Visualiser can be used. The construction of the podium should be such that, while the podium is locked and not in use, there should not be any port exposed/visible on the outer body for breakage/mishandling.</p>		
	Display	Built-in highly sensitive Interactive Panel with adjustable Manual tilt & a mechanism to make the Panel stable so that it does not shake while writing with following minimum features -		
	Screen Type	LED		
	Size	53.0 cm (21 inches)		
	Resolution	1920 x 1080		
	Aspect ratio	16:9/16:10		
	Computer	One USB, One VGA/DVI/HDMI Port		

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Interface	
Interactive Resolution	4000 Lpi (lines per inch)
Response Time	5ms
Viewing Angles	170(H) ; 160(V)
Touch	Finger
Reading accuracy	±0.5 mm (center)
Tracking speed	Approximately 200 points per second
Pen Pressure sensitivity	2048 Levels
Speakers	Display panel should have Inbuilt Speaker
System Details	
Processor	Intel Core i5 (10th Gen processor)
Small Form Factor	Computer should be of 2 liters Volume or less
In-Built Wi-Fi /Wireless LAN Card	Should have a inbuilt Wi-Fi / Wireless LAN Card
RAM	8 GB
Hard Disk	128 GB SSD
Ports (Min.)	HDMI x 1, USB ports x 4, LAN Port x 1
Keyboard & Mouse	Wireless
Operating System	Windows 10
Antivirus	Norton Anti Virus/Mcafee or equivalent with 1 year license
Certification	BIS Certifications required
Controller	
Ports on front Panel of Controller (Minimum)	VGA, HDMI, USB3.0x2, Audio IN or more
Buttons on front Panel of Controller (Minimum)	Push buttons to control Volume Up& Down, Volume Mute and to switch sources of HDMI Visual Presenter, VGA Visual Presenter, HDMI Laptop, PC HDMI, VGA Laptop, VGA PC and Controller Power On/Off, Display Power on and Power Off or more
Ports on Rear Panel of Controller (Minimum)	USB 3.0 X 2, VGA Input x 2, VGA Output x 2, RCA Audio IN X 1, RCA Audio Output x 2, HDMI Inputx2, HDMI Outputx2, Programming Port (Phoenix connector) or more
Built in HDMI Repeater	Yes (HDMI Output port should support 15mtr HDMI cable)
Controller Resolution Output	4K (3840 x 2160) Native
Power	5 V DC (Suitable Adaptor should be supplied with controller)

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Built in devices	
Gooseneck	Gooseneck Microphone with XLR output. It should be Phantom powered so that
Microphone	there is no requirement of batteries thereby eliminating consumable cost. The gooseneck length should be atleast 21.5cm with ON/OFF switch and with LED light indicating ON/OFF status. The gooseneck microphone shall be permanently polarised condensor, highly directional featuring hypercardioid /lobar directivity.
Built in Amplifier Power	Amplifier : Class D Rated Power : 150 W Impedance : MIC input: 5mV / 600Ω balanced; AUX1,2 input: 350mV / 10KΩ unbalanced RCA connection terminal Mic Input : Minimum 4 input Line Input : Minimum 2 input Output : MIX OUT: 1000mV / 470Ω unbalanced RCA connector Tone : Bass: ± 10dB at 100Hz; Treble: ± 10dB at 10KHz Frequency Response : 80Hz ~16KHz (+ 1dB, -3dB) SNR : MIC1,2,3: 66dB; AUX1,2: 85dB THD : < 0.05% (at 1KHz, 1/3 rated power) Mute Function : MIC 1 is prior to MIC2-4, AUX1-2 audio input; EMC is prior to all audio inputs Channel Crosstalk Attenuation : ≥50dB Heat Dissipation : Side-in and rear-out forced fan cooling; fan starts automatically when the device is turned on; infinitely variable speed Protection : Overheat protection, overcurrent protection, short circuit protection Power Supply : AC ~ 220V / 50Hz Power Consumption : 300W
Speakers	Two speakers of Minimum 50 W each shall be a part of standard supply. Speaker Type : 2 Way drivers Effective frequency range : 80 Hz – 20 kHz Rated power : 50 watts Sensitivity : 90 dB Impedance : 200Ω ohm IP Rated : IP66 LF transducer : 5-inch woofer HF transducer : 1.5-inch tweeter
Sliding Trays	Provision for keeping laptop and Keyboard & Mouse
Power Supply	180 -240V, 50Hz, AC Supply
Security	Physical Key for secure access to system.
Fans	Suitable cooling fans to be provided in the lower body.
18	Online UPS (2kva)

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Nos.

Online UPS	Minimum 2000 VA / 1600 W		
Nominal Voltage	200 / 208 / 220 / 230 VAC		
Input Voltage Range	55 - 150 VAC or 110 - 300 VAC (Based on Load at 50%) 85 - 140 VAC or 160 - 280 VAC (Based on Load at 100%)		
Frequency Range	40 Hz ~ 70 Hz		
Power factor	≥ 0.99 @ Nominal Voltage (100% Load)		
Output Voltage	200 / 208 / 220 / 230 VAC		
Voltage Regulation	$\pm 1\%$		
Frequency Range (Synchronized Range)	47 ~ 53 Hz or 57 ~ 63 Hz		
Frequency Range (Batt. Mode)	$50 \text{ Hz} \pm 0.25 \text{ Hz}$ or $60 \text{ Hz} \pm 0.3 \text{ Hz}$		
Overload	Ambient Temp $< 30^\circ\text{C}$ 105% - 110% UPS Shut Down After 10 min. at Battery Mode or Transfer to Bypass When Utility is Normal 110% - 130% UPS Shut Down After 1 min. at Battery Mode or Transfer to Bypass When Utility is Normal $> 130\%$ UPS Shut Down After 3 sec. at Battery Mode or Transfer to Bypass When Utility is Normal		
Current Crest Ratio	3:1		
Harmonic Distortion	$\leq 3\%$ THD (Linear Load) $\leq 6\%$ THD (Non-Linear Load)		
Efficiency AC Mode (Overall)	88%		
Efficiency Battery Mode (Inverter)	87%		
Indicators	Load Level, Battery Level, AC Mode, Battery Mode, Bypass Mode and Fault Indicators		
Battery Type	12 V / 7 AH		
Typical Recharge Time	4 Hours Recover to 90% Capacity		
Humidity	20 - 90 % RH @ 0 - 40°C (Non-Condensing)		
Noise Level	Less than 50dBA @ 1 meter		
19	Full HD PTZ Camera for Video Conferencing Room	1	Nos.
	Camera		

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Sensor	1/2.8", CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens	f3.5mm ~ 42.3mm, F1.8 ~ F2.8
Optical Zoom	5x
Digital Zoom	10x
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	≥55dB
Field of View	80 degrees
Horizontal Rotation Range	±170 degree
Vertical Rotation Range	Minus 30 degrees ~ Plus 90 degree
Pan Speed Range	2.7 degrees ~ 35 degrees per second
Tilt Speed Range	1.7 degrees ~ 31 degrees per second
H & V Flip	Support
Image Freeze	Support
Number of Pre-set	255, 10 pre-sets on Remote control
Pre-set Accuracy	0.1°
Video System	1080p/60, 1080p/50, 1080p/30, 1080p/25
USB Featured	
Operate System	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
Colour System	YUY2 / H.264 / MJPEG
Video Format	YUY2 (ISOC): 1080P@60fps H.264 AVC/SVC: 1080P@60fps MJPEG: 1080P@60fps
Audio on USB	Support
USB Video Communication Protocol	UVC 1.1~1.5
IPC Features	
Video	H.264/MJPEG

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Video Stream	Main Stream, Sub Stream
Main Stream Resolution	1920x1080, 1280x720, 1024x576
Sub Stream Resolution	1280x720, 720x576, 320x240
Video Bit Rate	328Kbps ~ 20480Kbps
Bit Rate Type	Variable Rate, Fixed Rate
Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps
Audio	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Support protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast
Operational Requirement	
Redundant Power Supply	Device should Support Minimum three power supply method for power redundancy Supports USB 5V power supply, 12V power adapter power supply and PoE power supply.
PoE Power Supply & Controlling	Device should Support PoE power supply for control, Video and audio only need one network cable.
Simultaneous Video Output	Device Should support HDMI,USB3.0 and LAN interface based Video output HD video at the same time.
Low Light	Device Should support High SNR of CMOS sensor, even under low illumination conditions, picture can still keep clean and clear.
Remote Control	All the parameters of the camera can be remote controlled by the high-speed communications
Input/Output Interface	
Video Output	1xUSB3.0, 1x HDMI, 1x RJ45
Network Interface	1xRJ45: 10M/100M Ethernet Interface
USB Interface	1x USB 3.0 Type-C
Audio Interface	1-ch: 3.5mm Audio Interface Line In
Communication Interface	1xRS232 In, 1xRS485
Power Jack	JEITA type (DC IN 12V)
Generic Specification	
Input Voltage	DC 12V, DC 5V, PoE(802.3af)
Current Consumption	12V - 1.0A(MAX) / 5V - 1.5A(MAX)
Operating Temperature	0°C ~ 40°C

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	Storage Temperature	-20°C ~ 60°C	
	Power Consumption	12W (Max)	
	Certifications	BIS	
20	Central Mixer Amplifier		1 Nos.
	Line Output 1	17.5V DC/3A Max.; -34dBV (20mV)	
	Line Output 2	17.5V DC/3A Max.; -34dBV (20mV)	
	Power Output	50W RMS at 2% THD, 90W Max.	
	Inputs	3xMic 0.65mV/4.7kΩ	
		1xAux 100mV/470kΩ	
	Frequency Response	60-14,000Hz (± 3dB)	
	S/N Ratio	> 60dB	
	Tone Controls	Bass: -10dB at 100Hz	
		Treble: -10dB at 10kHz	
	Preamp Output	200mV/600Ω	
	Line Output	1V/1kΩ	
	Send Output	200mV/600Ω	
	Return Input	200mV/10kΩ	
	Speaker Output	4Ω, 8Ω, 16Ω, 70V & 100V	
	Power Requirement	AC: 220-240V, 50/60Hz	
		DC: 24V (2x12V Car Battery)	
	Power Consumption	250VA	
	Protections	AC Fuse 1x3A, DC Fuse 3x10A	
	Dimensions	W483 x H110 x D325 mm	
	Weight	10.50kg	
	Accessories	1x Connection Cable	
		1x Extension Cable	
		1x Fuse 3A, 2	
21	PA Mixer		1 Nos.
	MIC INPUT Impedance/Gain	2k Ω Balanced/65dB	
	LINE INPUT Impedance/Gain	20k Ω Balanced/45dB	
	STEREO INPUT (L/Mono & R)		

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Impedance/Gain (-10dBu Input)	10kW Balanced/14dB		
Impedance/Gain (+4dBu Input)	10kW Balanced/0dB		
THD	<0.08%		
FREQUENCY RESPONSE	25Hz - 20kHz (+0, -1dB)		
EQUALIZATION Bass/Mid/Treble	±12dB at 100Hz/2kHz/10kHz		
CLIP LED INDICATION	4 dB prior to true clip		
LINE OUTPUT Nominal/Max Level	4dBu/21dBu (1.22V/9V)		
IMPEDANCE	600Ω		
DELAY SYSTEM	Digital Signal Processing		
DELAY RANGE SETTINGS			
HEADPHONE OUTPUT	200mV at 8W, THD <1%		
MAXIMUM GAIN			
Mic Input to Line Outputs	78dB		
Line Input to Line Outputs	58dB		
Stereo Input to Line Outputs	28dB (-10dBu Input) 14dB (+4dBu Input)		
AUX Send (Pre)	1.4V/100Ω Unbalanced		
AUX Send (Post)	2.7V/100Ω Unbalanced		
AUX Return (L&R)	150mV/10kΩ Balanced		
Record Output (L&R)	250mV/600Ω		
Playback Input (L&R)	250mV/1kΩ (variable through GAIN control)		
SIGNAL TO NOISE RATIO	>70dB		
POWER SUPPLY	AC: 220-240V, 50/60Hz		
DIMENSIONS	W465 x H110 x D435 mm		
WEIGHT	7.70kg		
22	PA Mixer Amplifier	1	Nos.

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	Power OUTPUT	300W Max., 250W RMS at 10% THD 220W RMS at 5% THD, 200W RMS at 2% THD
	Output Regulation	≤ 2 dB, no load to full load at 1kHz
	Input Channels	6xMic 0.65mV/4.7k Ω , 2xAux 100mV/470 k Ω , 1 x Line 1V/50k Ω
	Frequency Response	50-15,000Hz ± 3 dB
	Signal to Noise Ratio	60dB
	Tone Controls	Bass: ± 10 dB at 100Hz, Treble: ± 10 dB at 10kHz
	OUTPUTS	Preamp 200mV/600 Ω , Line 1V/1k Ω
	SPEAKER OUTPUTS	4 Ω , 8 Ω , 70V & 100V
	Power supply	AC: 220-240V 50/60Hz DC: 24V (2x12V Car Battery)
	POWER CONSUMPTION	AC: 460VA DC: 6A
	DIMENSIONS	W450 x H160 x D 340 mm
	Weight	15.40kg
	23 Conference Mic Chairman Unit	
23	Microphone	-63dBV/ μ bar (7.5mV/Pa)
	Current Consumption	< 50mA Max.
	Input	Line
	Output	Line, Headphone
	Speaker	Max Input 300mW
	Controls	Priority Switch, Talk Switch, Speaker Volume Control, Headphone Volume Control
	Dimensions	W118 x H70 x D160 mm
	Weight	1.05 kg (w/o cable)
	Accessories	Foam Windshield, 2.5m Interconnecting Cable
24	Delegate Mic Units	
	Microphone	-63dBV/ μ bar (7.5mV/Pa)
	Current Consumption	< 50mA Max.
	Input	Line
	Mic Auto Switch-Off Time	75 seconds approx.
	Output	Line, Headphone

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	Speaker	Max Input 300mW		
	Controls	Talk Switch, Speaker Volume Control, Headphone Volume Control		
	Dimensions	W118 x H70 x D160 mm		
	Weight	1.05 kg (w/o cable)		
	Accessories	Foam Windshield, 2.5m Interconnecting Cable		
25	Wall Speakers		2	Nos.
	Power rating	32W RMS / 48W Max.		
	RATE D VOLTAGE	100V		
	POWER TAPS ON 100v	32/16/8w		
	LOW IMPEDANCE	8Ω		
	Frequency Response	80-20,000Hz		
	SPL at 1kHz (1W/1m)	87dB		
	SPEAKER	Woofer 125mm (5"), T weeter 13mm dome		
	Dimensions	W178 x H252 x D144 mm		
	WEIGHT	2.65kg		
26	Accessories, Cables, Patch Cables, Tools, Aux Wires, XLR Cables, Multi Pin Cables, Installation and Commissioning Charges	Required Accessories for Installation of all the audio video equipments will be provided by seller no extra payment will be provided for accesssories.	1	Job
27	Room Asthetics	Providing Name Plates on room doors and automatic room freshers will be installed in the hall.	1	Job
VC PA Staff Room : 4408X6115				
1	Executive Table for PA	Providing and supplying executive table with an overall size 1200mm X 600mm X 750mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on CRCA C-frame with 0.9mm thick duly powder coated. The understructure shall consist of	2	Nos.

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		MS/CRCA rectangle pipe frame having cross-section area 38mm X 25mm with 1.2mm thick. Fixed top supporting pedestal shall be supplied at one side of the table. The pedestal shall be made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS:513. It should have 3 nos. of drawer i.e. 2 box and 1 filing. It should be operated on ball bearing sliding channel and recessed plastic handle with centralized locking mechanism. The table shall be clad with half modesty panel. There shall be leveller provided at the bottom. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership & AIOTA certification.		
2	High Back Chair for PA	Providing and supplying high back chair with ergonomic design, comfortable & aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m ³ in seat and 40mm thick having density 40Kg/m ³ in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The back and base of the chair shall be supplied with polypropylene bead on edges and the backrest shall be made by keeping the natural curvature of the spine with lumbar support. The seat and back shall be arrested together with 50-60 μ thick powder coated HR steel spine and the armrest shall be used black integral polyurethane arm with metal insert completely joint with seat and back. For seating durability the chair shall have swivel tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should be five legged injection moulded in black 30% glass filled nylon having pitch circle Dia. 700 \pm 15 mm and fitted with 5 nos. twin wheel castors. The castors of the chairs should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA Standards X5.1-2011 tested to perform 98,000 cycles with 250lbs load. The seat size shall be 475 \pm 10 mm(W) X 460 \pm 10 mm(D) and back size shall be 470 \pm 10 mm(W) X 610 \pm 10 mm(H) from seat. Overall height shall be = 1050 \pm 10 mm, Overall width (arm) = 545 \pm 10 mm, base width/ depth = 760 \pm 10 mm.	2	Nos.

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3	Visitor Chairs	Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 15mm thick hot-pressed commercial plywood padded with high resilience molded polyurethane foam 50mm thick having density 40kg/m ³ in seat and 40mm thick having density 40Kg/m ³ in back. The same shall be upholstered with tapestry 1mm thick and 300 GSM. The back and base of chair shall be supplied with polypropylene bead on edges and the backrest shall be made by keeping the natural curvature of the spine. The seat and back shall be arrested together with 50-60 μ thick powder coated HR steel spine and the armrest shall be used of black integral polyurethane arm with metal insert completely joint with seat and back. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia. 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 460 \pm 10 mm(W) X 450 \pm 10 mm(D) and back size shall be 460 \pm 10 mm(W) X 400 \pm 10 mm(H) from seat. Seat height = 450 \pm 10 mm, Overall height shall be = 830 \pm 10 mm, Overall width - 555 \pm 10 mm, overall depth = 595 \pm 10 mm.	4	Nos.
4	Almirah For Storage	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. Door shall be made of 0.8mm thick and all other components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60 μ .	2	Nos.
5	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 12 mm grid system (NRC 0.8) and supports as required.	400	Sq. Ft.
6	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K	12	Nos.

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		CRI:Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source:75 pcs SMD 2835 Luminous Flux:1350Lm Material: Aluminum.		
7	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	4	Nos.
8	Computers	Processor : 12th Generation Intel® Core™ i5-12600, 18MB cache, 6 cores, 12 threads, 3.30GHz to 4.80GHz, 65W Chipset : Intel B660 Chipset Graphics: Integrated UHD Graphics 700 series compatible with processor Memory: 8 GB DDR4 RAM 3200 MHz expandable up to 64 GB with min 2 DIMM Slots Ports : 1 RJ-45 port 10/100/1000 Mbps , 8 USB Ports (Min. 4 USB 3.2 ports), 1 Universal Audio Jack, 1 DisplayPorts 1.4, 1 HDMI 1.4b Slots : 3 full-height PCIe Gen 3 slots (Min. 1 full height PCIe x16) , 2 M.2 slots (Wireless + Storage) Primary Hard Drive : 512 GB M.2 PCIe NVMe SSD Display : 19.5" display with 1600 x 900 resolution LAN : Integrated Gigabit Ethernet LAN 10/100/1000 WLAN : Wi-Fi 802.11.ac + Bluetooth 5.0 Form Factor : Tower with Intrusion Switch not more than 14.9 Ltr Power Supply : 180W internal power supply unit (PSU), 85% Efficient Mouse : USB Keyboard (same make as pc) Keyboard : USB Keyboard (same make as pc) Operating System : Windows 11 Pro 64 Bit Security : Discrete TPM 2.0 (Hardware) Certification : Energy star 6.0, EPEAT India Certified for Desktop & TCO 8.0 for Monitor, MIL STD 810 G (min.11)Test passed, ISO 9001:2008 certification BIOS : Configuration Tool to Enable these features in a single Tool power on password, set up password , USB port disable	1	Nos.

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with life cycle management tool

Support : Drivers should be available for download from OEM site for at least 3 years from the date of the purchases order. (drive cab to be available in support site).

VC Visitor Room : 3090X6115

1	Sofa Set (3+1+1)	2	Set
	<p>Supplying and placing three seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m³ in seat and 32Kg/m³ in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 40Kg/m³. The structure shall be upholstered with leatherite tapestry 1±0.2 mm thick and 571 GSM. The understructure shall consist of pipe frame loop leg of SS shiny chrome finish having cross-section area 40mm X 20mm. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat size shall be 510±10 mm(D) X 1540±10 mm(W), seat height = 435±10 mm, overall width = 1860±10 mm, overall depth = 770±10 mm & overall height = 780±10 mm.</p> <p>Supplying and placing single seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m³ in seat and 32Kg/m³ in back. There shall be cushion</p>		

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		arm provided padded with high resilience polyurethane foam having density 40Kg/m ³ . The structure shall be upholstered with leatherite tapestry 1±0.2 mm thick and 571 GSM. The understructure shall consist of pipe frame loop leg of SS shiny chrome finish having cross-section area 40mm X 20mm. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat size shall be 510±10 mm(D) X 540±10 mm(W), seat height = 435±10 mm, overall width = 860±10 mm, overall depth = 770±10 mm & overall height = 780±10 mm.		
2	Center Table	Supplying & placing center table with an overall size 1200mm X 600mm X 450mm. The top shall be made up of 25mm thick Pre-laminated particle board of grade II of IS 12823. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The understructure shall consist of SS 202 grade pipe frame with cross-section area 50mm X 25mm. There shall be PPCP shoe provided at the base to avoid scratches on the floor.	2	Nos.
3	Corner Table	Supplying & placing center table with an overall size 600mm X 600mm X 450mm. The top of the table shall be made up of 25mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and shade. The top profile shall be in square shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top shall be supported on MS rectangle pipe frame with cross-section area 40mm X 20mm with 1.6mm thick. The under structure shall consist of MS/CRCA four legs having Dia. 38mm at upper and 28mm at lower. There shall be co-polymer polypropylene shoe provided at the bottom to avoid scratches on the floor. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.	3	Nos.

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4	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	6	Nos.
5	Magzine Rack	Size:- Height:1900mm, Width:300mm, Depth:400mm: Sides made of 18mm thick pre-laminated particle board. Edges covered with PVC edge band on through feed edge bending machine. Shelf tray & Bottom Panel made by M.S.cold rolled close annealed Sheet. Tray slides on pvc roller bearing. All steel components are epoxy powder coated followed by seven tanks anti corrosion treatment of surface.	1	Nos.
6	Air Conditioner	SITC of Air Conditioner of 3Star 1.5 Ton <ul style="list-style-type: none"> • Feature Support 1.5 Ton Capacity • Feature Support Auto Restart • Feature Support Front Panel Display • Feature Support Rotary Compressor with Copper Fins • Installation Complete installation with Copper Pipes, Cables etc. 	1	Nos.

Registrar Room

Room Size: 6000 x 5955

1	Wall Paneling	UP TO 2 FEET FROM FLOOR- Providing and Fixing wooden wall paneling fabricated from MS pipe/ tube of 25mm X 25mm, 12 mm thick Ply which will be finished with paint/ Laminate Sunmica. ABOVE 2 FEET- Providing & fixing of 37.5mm-50mm wooden wall paneling fabricated from MS pipe/ tube of 25mm X 25mm made up of 12mm MDF (\pm 1 mm), duly finished with cloth/ polish/ paint.	850	Sq. Ft.
2	Wooden Flooring	Supplying, fitting and fixing 6mm thick Laminated wooden Flooring Work with plank size not less than 1200 mm X 190 mm having 0.2mm thk top abrasive layer over a decorative layer followed by a High-density fibreboard (HDF) substrate core over a resin saturated backing layer and installing through unilin or tongue- groove system (having locking	400	Nos.

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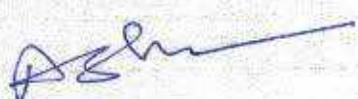
		strength) over a 2 mm thk underlayer polyurethane foam on polythene sheet 250 micron, over a smooth, flat, hard subfloor free from moisture (< 8%), grease etc. complete in all respect with requisite accessories like end profile, transition profile, reducer 'T' profile etc.		
3	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9 mm grid system (NRC 0.8) and supports as required.	400	Sq. Ft.
4	Paint and Polish	Providing & applying on all exposed surface of ceiling, etc., Plastic Emulsion Paint of 'Asian Paints', 'Nerolac' or equivalent make as per the manufacturer's specification with a brush & roller. Base coat of approved primer before applying two coats of paint. Painting of wall with minimum of 2 coats of plastic emulsion paint of approved shade and make of the wall, Columns, Beams, Plywood or Gypboard including all necessary surfaces preparation. The wall shall be cleaned, filled with putty & applied with one coat of primer so as to achieve an even surface to apply paints.	1	Job
5	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	4	Nos.
6	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 VAC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.	8	Nos.
7	Room Electrical Work	Providing, fixing, testing and replacement work of VC Room with new material, which includes complete wiring work, MCB, Main junction Box, DB replacing, Power function, Main supply box, Power Cable, Power switches, Switches & Sockets for LED lights and Fans, Copper wire, Drainage pipe and power	1	Job

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		cable for AC, Electrical Conduit, etc.		
8.	Curtains	BLENDs- Fabric Blend with varied design and as per room layout.	1	Job
9	Executive Table	Supplying & installing of table with ERU and pedestal having following specifications. The table shall be supplied in completely knock down conditions with an overall size 2200mm X 1850mm X 750mm that is to be assembled at site. The worktop shall have the size 2200mm X 950mm made up of 50mm thick Medium Density Fibre-board with approved laminate and finish as per approved shade. The top edge should be cladded with 1.2mm thick extruded aluminium section all around the worktop and die cast end caps on joints for better strength of the table. The profile shall be in rectangle shape and enclosed by flapper box for electric provision. The top shall be supported on gable end. The end wall of the table on the side shall be topped by gable end. It should be 50mm thick Medium Density Fibre-board linear in profile. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick particle board and shall be linear in profile. The table shall be supplied with credenza unit with an overall size 900mm X 450mm that shall be constructed from Pre-laminated particle board of grade II of IS 12823 with 25mm thick top and other parts 18mm thick like shutter, back, facia etc. The drawer and shutter shall be operated with ball bearing sliding channel and concealed crank hinge. G-profile Aluminium handle shall be supplied for ease of opening. The ERU unit shall be mounted on 38mm Dia. leg. Fixed pedestal shall be supplied with an overall size 380mm X 400mm X 600mm. The pedestal shall be made up of Pre-laminated particle board of grade II of IS 12823. Top shall be 25mm thick, side, back, facia shall be 18mm thick. The pedestal shall have 2 nos. of drawer having same size. The drawer shall be operated with ball bearing sliding channel to enable smooth operation. Aluminium die cast handle shall be provided for ease of opening. For locking provision central lock mechanism shall be given in which all the drawer shall be synchronized locked with one single key. The pedestal shall be mounted on Aluminium round leg. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification.	1	Nos.





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10	Back Storage	Supplying & placing Back storage unit with an overall size 2250mm X 450mm X 2200mm. It should be made up of Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade with extruded Aluminium profile. All profile i.e. side, back, shutter, shelf, skirting shall be 18mm thick and the edges shall be sealed with thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The storage shall have shelves and 8 nos. of door shutter for ease of opening. The shutter shall be operated with concealed crank hinge and die cast handle. There shall be legs provided at the bottom to avoid scratches on the floor. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The boards used should meet international standards of quality and safety, Indian standard IS:12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of elasticity bending tested as per IS 2380.	1	Nos.
11	Executive Chair	Providing and supplying a high back chair with ergonomic design, comfortable & aesthetically appealing. The seat and back shall be made up of 18mm thick hot pressed commercial plywood padded with high resilience polyurethane foam (40+30)mm thick having density (32 & 32)kg/m ³ in seat and (40+30)mm thick having density (32, 32)kg/m ³ in back. The same shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. The backrest shall be made by keeping the natural curvature of the spine for lumbar support which helps to provide full back support as well as head support. The chair shall be supplied with polypropylene arm with cushion base leatherite covering top. For seating durability the chair shall have torsion bar 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 65mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The Pedestal should have five legged MS CRCA powder coated with 40-60 μ thick having pitch circle dia. 600 mm fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycles with 250lbs load. The seat size shall be 480 \pm 10 mm(D) X 520 \pm 10 mm(W) and back size shall be 540 \pm 10 mm(W) X 710 \pm 10 mm(H) from seat. Overall height	1	Nos.

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		shall be = 1140±10 mm, overall depth/width = 700±10 mm,		
12	Visitor Chairs	We are providing ergonomically, comfortable and aesthetically design visitor chairs. The seat and back made of hot pressed moulded ply and Urethane foam upholstered (Foam density 40kg/m ³) in seat and 32 kg/m ³ in back with Leatherette tapestry and arm rests are made of metallic poly propylene with foam cushion and leatherite tapestry. The cantiliver type frame made of CRCA powder coated pipe with pvc shoes. The seat size shall be 520mm (W) x 480 mm (D) and the back size shall be 620mm (H) from Seat & overall height - 1040 mm.	3	Nos.
13	Almirah For Storage	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. Door shall be made of 0.8mm thick and all other components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60 μ .	1	Nos.
14	Sofa Set (2+1+1)	Supplying and placing two seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m ³ in seat and 32Kg/m ³ in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 32Kg/m ³ . The complete structure shall be	1	Set

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		upholstered with leatherite tapestry 0.8±0.1 mm thick and 535 GSM. The understructure shall consist of SS 202 grade leg having Dia. 38mm. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat size shall be 540±10 mm(D) X 1050±10 mm(W), seat height = 430±10 mm, overall width = 1450±10 mm, overall depth = 760±10 mm & overall height = 750±10 mm.		
		Supplying and placing single seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m ³ in seat and 32Kg/m ³ in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 32Kg/m ³ . The complete structure shall be upholstered with leatherite tapestry 0.8±0.1 mm thick and 535 GSM. The understructure shall have SS leg with shiny chrome finish having Dia. 38mm. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat size shall be 540±10 mm(D) X 490±10 mm(W), seat height = 430±10 mm, overall width = 890±10 mm, overall depth = 760±10 mm & overall height = 750±10 mm.		
15	Center Table	Supplying & placing corner table with an overall size 1200mm X 600mm X 450mm. The top of the table shall be made of 18mm thick Pre-laminated particle board of grade II of IS 12823. The top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The understructure shall consist of SS 202 grade pipe frame with shiny chrome finish with an overall size the size 40mm X 20mm with 1.6mm thick. One nos. footstep shall be provided between the frame with same size i.e. 40mm X 20mm. There shall be PPCP shoe provided at the bottom to avoid scratches on the floor.	1	Nos.
16	Interactive Flat Pannel Display (IFPD-65inches)	Screen size 65" Resolution UHD 3840 x 2160 pixels Brightness (typical) 500 nits Contrast ratio (typical) 5000:1 Response time 2 ms	1	Nos.

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Light life (typical)	50,000 hrs
Smart Eye protection	Interactive display should have smart eye protection.
Auto Brightness Control	Interactive display should have inbuilt Light sensor to control brightness automatically based on ambiance light.
Glass	
Hardness	4 mm tempered AG Glass
Anti-glare coating	Interactive display should have Anti-glare coating
Touch screen	
Touch technology	Infrared touch
Touch points	20 touch points
Touch response time	< 4 ms
System	
CPU	Quad core 1.9 Ghz.
Memory	8GB DDR3/DDR4
Storage	64GB and expandable up to 512 GB
OS	Android 11.0
Input/ Output ports	
Input Ports (minimum)	3 x HDMI, 1x DP, 1x VGA, 1x YBPR In, 1 x AV (3.5mm), 1x Mic in (3.5mm), 1x PC Audio In, 1 x TF card (Micro SD), 1 x Slot-in PC (OPS)
Output Ports (minimum)	1 x HDMI, 1 x AV (3.5mm), 1x Earphone, 1x SPDIF
USB Ports (minimum)	5 x USB 3.0 Type A, 2 x USB Type C, 2 x USB Type B (touch)
Communication Ports (minimum)	1x RS232 In, 2 x RJ45 10/100/1000 Gigabit ethernet port (In & Out)
Built-in peripherals	
Speaker	Stereo Sound with in-built 25 Watt x 2 speakers and subwoofer of 25 watt
Magnetic pen holder	Should have inbuilt magnetic pen holder with up to two pens
Tutor friendly experience	Should have control buttons on Interactive display like Volume UP/Down, Home, Back, Menu, Touch on/off & Power Buttons for ease in teaching.
Quiz	Should have in built tool to allow participants to submit answers from their Smart Phones (Answering/Voting/Messaging)
Smart Multimedia Port	Should have Built in Type-c multimedia port on front side to deliver Video, Audio, Touch control, Internet Sharing and Fast charging of up to 65 watt using a single USB type C cable
SD Card Support	Should have provision to connect SD card supports up to 512 GB of Storage
SIM Card Module	Interactive Display should have inbuilt Sim card module to support 3G/4G Sim cards

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Built in Wi-fi	Should have inbuilt Dual band Wi-fi (2.4 & 5Ghz)
Built-in Hotspot	Should have inbuilt Hotspot Dual band (2.4 & 5Ghz) with internet sharing across the connected devices
Built-in Bluetooth	Should have inbuilt Bluetooth version 5.0 or latest
Stylus	Should have minimum 2 Nos of Stylus
Remote control	Should have remote control to operate the Interactive display
Software	
Whiteboard Interactive Software	Should have inbuilt whiteboard software for teaching/ training using Interactive display with features like AI Pen, Shape Pen, Handwriting Recognition, Sticky Notes, E-mail and others like (Pen, thickness of pen, colours of pen, Pixels eraser and Region eraser, Shapes (Circle, Triangle, Rectangle, arrows), Magnifier, Background of White board (multiple colours also use picture, shape), Redo/Undo, Next/Previous, Select & Drag option, Switching between single touch and multiple touch, Clear screen, List of pages with deleting option, Switching tool bar right to left, Many other Tools (Compass, Protector, Insert Table, Calculator, Curtain, Timer, Calendar, Camera, Spotlight, Multiscreen (divide board in 2,3, and 4 parts with background colour and different pen colour), on screen annotation. Quiz results should be imported into whiteboard application Interactive software should be of the same OEM. Interactive software of the interactive Display should detect the Visual Presenter/ Visualiser and should be able to annotate on the image captured by the Visual Presenter/ Visualiser.
Wireless screen sharing	Interactive display should allow user to share/mirror the content of Laptop/Desktop and mobile device(Android) wirelessly and should have Screen Share software to show up to 4 Multiple screen at same time.
Quick access tool	Floating Tool should be available on all screen for quick access tools and same should be customized as per user requirement.
Play Store Support	Should have Built in Google Play store to download applications direct from Play store
YouTube	Should have Built in YouTube application and should support up to 4K resolution.
Inbuilt Cloud drive	Interactive display should have inbuild cloud drive access from Google drive & one drive
Software based Video conferencing	Device should support software based VC with internal android platform like Google meet, Cisco WebEx, Skype, Microsoft teams & zoom applications.
Multiple controlling menu	Should have Multi Controlling menu including Side menu, floating menu and pull up menu.
Gesture Control	Should have gesture control like Hold five fingers on screen for Interactive display sleep mode, hold and move three fingers on screen for Floating menu & swipe the screen Upside for Pull up menu control.
Split Screen	Interactive display should have inbuilt split screen user should be able to split the screen to operate multitask like play a video in half of screen and open whiteboard in other half side.





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Smart USB Port	All USB 3.0 port should support Smart USB sharing for Android, Internal PC or other External PC / Device
Multilanguage GUI	Device should have GUI interface in both Hindi and English Language
Virtual Keyboard	Device should have inbuilt virtual keyboard with English to Hindi writing support.
Enhanced Security	Should have provision to lock all the USB port, Screen Lock, application lock to restrict unwanted access.
Touch On/Off Button	Should have provision for Touch On/Off on front of Display
Sound enhancement	Should have inbuilt Volume equalizer and surround sound support to enhance the sound quality.
Screen Recording	Should have built in Screen recording feature supports up to full HD resolutions
Screen Shot	Should have built-in screen shot option using single click
Power	
Power	AC 100-240V 50/60Hz
Maximum Power Consumption	250 W
Standby Power Consumption	<0.5 W
Environment	
Operating temperature	0°C ~ 45°C
Operating Humidity	10% ~ 80% RH Non-Condensing
Accessories	Wall mount Kit, 1x HDMI Cable (1.5 Meter), 1x USB A to B cable (1.5 Meter), 1x Power Cable (1.5 Meter)
Certifications	BIS certification required
Technical Specifications for OPS	
Parameter	Specifications
Type Detachable	PC module
CPU Intel Core	i5 10th Generation
RAM	8 GB
SSD	256 GB
Operating system	Windows10
I/O Ports	HDMI x 1, USB ports x 4, LAN Port x 1
Max Power	50W or less

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18	Air Conditioner	SITC of Air Conditioner of 3Star 1.5 Ton <ul style="list-style-type: none"> • Feature Support 1.5 Ton Capacity • Feature Support Auto Restart • Feature Support Front Panel Display • Feature Support Rotary Compressor with Copper Fins • Installation Complete installation with Copper Pipes, Cables etc. 	2	Nos.
19	Computers	Processor : 12th Generation Intel® Core™ i5-12600, 18MB cache, 6 cores, 12 threads, 3.30GHz to 4.80GHz, 65W Chipset : Intel B660 Chipset Graphics: Integrated UHD Graphics 700 series compatible with processor Memory: 8 GB DDR4 RAM 3200 MHz expandable up to 64 GB with min 2 DIMM Slots Ports : 1 RJ-45 port 10/100/1000 Mbps, 8 USB Ports (Min. 4 USB 3.2 ports), 1 Universal Audio Jack, 1 DisplayPorts 1.4, 1 HDMI 1.4b Slots : 3 full-height PCIe Gen 3 slots (Min. 1 full height PCIe x16) , 2 M.2 slots (Wireless + Storage) Primary Hard Drive : 512 GB M.2 PCIe NVMe SSD Display : 19.5" display with 1600 x 900 resolution LAN : Integrated Gigabit Ethernet LAN 10/100/1000 WLAN : Wi-Fi 802.11.ac + Bluetooth 5.0 Form Factor : Tower with Intrusion Switch not more than 14.9 Ltr Power Supply : 180W internal power supply unit (PSU), 85% Efficient Mouse : USB Keyboard (same make as pc) Keyboard : USB Keyboard (same make as pc) Operating System : Windows 11 Pro 64 Bit Security : Discrete TPM 2.0 (Hardware) Certification : Energy star 6.0, EPEAT India Certified for Desktop & TCO 8.0 for Monitor, MIL STD 810 G (min.11)Test passed, ISO 9001:2008 certification BIOS : Configuration Tool to Enable these features in a single Tool power on password, set up password , USB port disable with life cycle management tool Support : Drivers should be available for download from OEM site for at least 3 years from the date of the purchases order. (drive cab to be available in support site).	1	Nos.

Registrar Rest Room

Room Size: 3785 x 3115

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			8	Nos.
1	Visitor Chairs	Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 15mm thick hot-pressed commercial plywood padded with high resilience molded polyurethane foam 50mm thick having density 40kg/m ³ in seat and 40mm thick having density 40Kg/m ³ in back. The same shall be upholstered with tapestry 1mm thick and 300 GSM. The back and base of chair shall be supplied with polypropylene bead on edges and the backrest shall be made by keeping the natural curvature of the spine. The seat and back shall be arrested together with 50-60 μ thick powder coated HR steel spine and the armrest shall be used of black integral polyurethane arm with metal insert completely joint with seat and back. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia. 25.4mm with 2mm thick. There shall be copolymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 460±10 mm(W) X 450±10 mm(D) and back size shall be 460±10 mm(W) X 400±10 mm(H) from seat. Seat height = 450±10 mm, Overall height shall be = 830±10 mm, Overall width - 555±10 mm, overall depth = 595±10 mm.		
2	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	2	Nos.
3	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI:Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source:75 pcs SMD 2835 Luminous Flux:1350Lm Material: Aluminum.	4	Nos.

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Finance Comptroller

Room Size: 6000 x 5665

1	Wall Paneling	<p>UP TO 2 FEET FROM FLOOR- Providing and Fixing wooden wall panelling fabricated from MS pipe/ tube of 25mm X 25mm, 12 mm thick Ply which will be finished with paint/ Laminate Sunmica.</p> <p>ABOVE 2 FEET- Providing & fixing of 37.5mm-50mm wooden wall paneling fabricated from MS pipe/ tube of 25mm X 25mm made up of 12mm MDF (± 1 mm), duly finished with cloth/ polish/ paint.</p>	850	Sq. Ft.
2	Wooden Flooring	Supplying, fitting and fixing 6mm thick Laminated wooden Flooring Work with plank size not less than 1200 mm X 190 mm having 0.2mm thk top abrasive layer over a decorative layer followed by a High-density fibreboard (HDF) substrate core over a resin saturated backing layer and installing through unilin or tongue- groove system (having locking strength) over a 2 mm thk underlayer polyurethane foam on polythene sheet 250 micron, over a smooth, flat, hard subfloor free from moisture (< 8%), grease etc. complete in all respect with requisite accessories like end profile, transition profile, reducer 'T' profile etc.	400	Nos.
3	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9 mm grid system (NRC 0.8) and supports as required.	400	Sq. Ft.
4	Paint and Polish	Providing & applying on all exposed surface of ceiling, etc., Plastic Emulsion Paint of 'Asian Paints', 'Nerolac' or equivalent make as per the manufacturer's specification with a brush & roller. Base coat of approved primer before applying two coats of paint. Painting of wall with minimum of 2 coats of plastic emulsion paint of approved shade and make of the wall, Columns, Beams, Plywood or Gyproc including all necessary surfaces preparation. The wall shall be cleaned, filled with putty & applied with one coat of primer so as to achieve an even surface to apply paints.	1	Job

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5	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	4	Nos.
6	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.	8	Nos.
7	Room Electrical Work	Providing, fixing, testing and replacement work of VC Room with new material, which includes complete wiring work, MCB, Main junction Box, DB replacing, Power function, Main supply box, Power Cable, Power switches, Switches & Sockets for LED lights and Fans, Copper wire, Drainage pipe and power cable for AC, Electrical Conduit, etc.	1	Job
8	Curtains	BLENDS- Fabric Blend with varied design and as per room layout.	1	Job

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9	Executive Table	Supplying & Placing Modular table in completely knock down conditions with an overall size 2300mm X 1950mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The table top shall have the combination of 25mm PLPB top and 18mm PLPB base top. The top shall have the size 2000mm X 950mm made up of 25mm thick Pre-laminated particle board of grade II of IS 12823 with one side laminate and finish as per approved shade. The base top shall have the size 1750mm X 275mm and 900mm X 100mm made up of 18mm thick Pre-laminated particle board. The top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edgebander machine at 200 OC. The table top shall be supported on SS pipe having length 1580mm with cross-section area 40mm X 20mm. The end wall of the table on the side shall be topped by gable end. The gable end shall have the size 653mm X 555mm. The gable end shall be made up of 18mm thick Pre-laminated particle board and profile shall be in linear shape with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. The modesty panel shall have the size 1620mm X 555mm with 18mm thick Pre-laminated particle board in linear shape with appropriate PVC edge banding. The table understructure shall be SS leg with shiny chrome finish with an overall size 750mm/450mm X 700mm (L-shape leg) and 895mm X 100mm (loop leg). There shall be buffers provided to avoid scratches on the floor. The table shall have side unit for storage purpose with an overall size 1950mm X 600mm. The side unit shall be made up of Pre-laminated particle board of grade II of IS 12823 with drawer base 9mm thick and other parts 18mm thick like shutter, back, facia, side panel etc. It shall have 2 drawer and 2 shutter. The drawer shall have the size 450mm X 212mm and shutter 393mm X 427mm. The drawer shall be operated with leather handle and easily close & open with the assistance of 400mm ball bearing base telescopic channel having load capacity 35Kg to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be locked with one single lock. A black jali shall be provided at back of the storage unit. The side storage shall be mounted on SS base loop leg with an overall size 580mm X 100mm having cross-sectional area 80mm X 20mm. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and	1	Nos.

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		AIOTA certification.		
10	Back Storage	Wooden Storage, Particle Board Structure W 1800 X D 450 X H 900	1	Nos.
11	Executive Chair	Supplying and placing ergonomically designed, comfortable & aesthetically appealing High back chair. The seat shall be made of double layered moulded (18+6)mm thick hot pressed commercial plywood upholstered with high resilience polyurethane foam (40+30)mm thick having density 40kg/m ³ with black leatherite tapestry 0.8mm thick and 535 GSM and the back shall be made of double layered moulded hot pressed plywood (18+6)mm thick upholstered with high resilience polyurethane foam (30+25)mm thick having density 32kg/m ³ with black leatherite tapestry 0.8mm thick and 535 GSM with contoured lumbar support which helps to provide full back support and maintain the natural curvature of the spine.. The seat and back shall be fixed with plywood and the armrest shall be used metal base chrome finish cushion arm with leatherite tapestry completely joint with seat and back. The chair shall have swivel tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height upto 65mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The Pedestal shall be made up of MS CRCA chrome plated having pitch circle Dia	1	Nos.

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		700 mm fitted with 5 nos. 50mm twin wheel castors which shall be made of injection moulded black nylon 30% glass filled having self-lubricating property for friction free movement with BIFMA standards. The seat size shall be 500±10 mm (D) X 480±10 mm (W) and back size shall be 520±10 mm (W) X 700 ±10 mm (Ht) from seat. Overall height shall be = 1160±10 mm, overall depth = 700±10 mm & overall width = 650±10 mm.		
12	Visitor Chairs	We are providing ergonomical, comfortable and aesthetically design visitor chairs. The seat and back shall be made of hot pressed moulded double layered plywood 16mm thk and Urethane foam upholstered (Foam density 40kg/m ³) with Leatherette tapestry. The back shall be Urethane foam upholstered (Foam density 32kg/m ³) with Leatherette tapestry. The armrests are made of CRC pipe 50mm X 15mm X 1.6mm chrome plated and cushion with foam and Leatherette tapestry.	3	Nos.
13	Sofa Set (2+1+1)	<p>Supplying and placing two seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m³ in seat and 32Kg/m³ in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 32Kg/m³. The complete structure shall be upholstered with leatherite tapestry 0.8±0.1 mm thick and 535 GSM. The understructure shall consist of SS 202 grade leg having Dia. 38mm. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat size shall be 540±10 mm(D) X 1050±10 mm(W), seat height = 430±10 mm, overall width = 1450±10 mm, overall depth = 760±10 mm & overall height = 750±10 mm.</p> <p>Supplying and placing single seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m³ in seat and 32Kg/m³ in back. There shall be cushion arm provided padded with high resilience polyurethane foam</p>	1	Set

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		having density 32Kg/m ³ . The complete structure shall be upholstered with leatherite tapestry 0.8±0.1 mm thick and 535 GSM. The understructure shall have SS leg with shiny chrome finish having Dia. 38mm. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat size shall be 540±10 mm(D) X 490±10 mm(W), seat height = 430±10 mm, overall width = 890±10 mm, overall depth = 760±10 mm & overall height = 750±10 mm.		
14	Center Table	Supplying & placing corner table with an overall size 1200mm X 600mm X 450mm. The top of the table shall be made of 18mm thick Pre-laminated particle board of grade II of IS 12823. The top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The understructure shall consist of SS 202 grade pipe frame with shiny chrome finish with an overall size the size 40mm X 20mm with 1.6mm thick. One nos. footstep shall be provided between the frame with same size i.e. 40mm X 20mm. There shall be PPCP shoe provided at the bottom to avoid scratches on the floor.	1	Nos.
17	Air Conditioner	SITC of Air Conditioner of 3Star 1.5 Ton <ul style="list-style-type: none"> • Feature Support 1.5 Ton Capacity • Feature Support Auto Restart • Feature Support Front Panel Display • Feature Support Rotary Compressor with Copper Fins • Installation Complete installation with Copper Pipes, Cables etc. 	2	Nos.

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18	Computers	Processor : 12th Generation Intel® Core™ i5-12600, 18MB cache, 6 cores, 12 threads, 3.30GHz to 4.80GHz, 65W Chipset : Intel B660 Chipset Graphics: Integrated UHD Graphics 700 series compatible with processor Memory: 8 GB DDR4 RAM 3200 MHz expandable up to 64 GB with min 2 DIMM Slots Ports : 1 RJ-45 port 10/100/1000 Mbps , 8 USB Ports (Min. 4 USB 3.2 ports), 1 Universal Audio Jack, 1 DisplayPorts 1.4, 1 HDMI 1.4b Slots : 3 full-height PCIe Gen 3 slots (Min. 1 full height PCIe x16) , 2 M.2 slots (Wireless + Storage) Primary Hard Drive : 512 GB M.2 PCIe NVMe SSD Display : 19.5" display with 1600 x 900 resolution LAN : Integrated Gigabit Ethernet LAN 10/100/1000 WLAN : Wi-Fi 802.11.ac + Bluetooth 5.0 Form Factor : Tower with Intrusion Switch not more than 14.9 Ltr Power Supply : 180W internal power supply unit (PSU), 85% Efficient Mouse : USB Keyboard (same make as pc) Keyboard : USB Keyboard (same make as pc) Operating System : Windows 11 Pro 64 Bit Security : Discrete TPM 2.0 (Hardware) Certification : Energy star 6.0, EPEAT India Certified for Desktop & TCO 8.0 for Monitor, MIL STD 810 G (min.11)Test passed, ISO 9001:2008 certification BIOS : Configuration Tool to Enable these features in a single Tool power on password, set up password , USB port disable with life cycle management tool Support : Drivers should be available for download from OEM site for at least 3 years from the date of the purchases order. (drive cab to be available in support site).	1	Nos.
1	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9 mm grid system (NRC 0.8) and supports as required.	320	Sq. Ft.

OIC/GAD Exam Secrecy

Room Size : 6000 x 4570

1	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9 mm grid system (NRC 0.8) and supports as required.	320	Sq. Ft.
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2	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	4	Nos.
3	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.	8	Nos.
4	Room Electrical Work	Providing, fixing, testing and replacement work of VC Room with new material, which includes complete wiring work, MCB, Main junction Box, DB replacing, Power function, Main supply box, Power Cable, Power switches, Switches & Sockets for LED lights and Fans, Copper wire, Drainage pipe and power cable for AC, Electrical Conduit, etc.	1	Job
5	Executive Table	Supplying & Placing executive table with credenza unit in completely knock down conditions with an overall size 2100mm X 1800mm X 750mm that is to be assembled at site. The worktop shall have the size 1800mm X 900mm made up of 25mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The table top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top shall be supported on CRCA rectangle pipe frame having cross-section area 40mm X 20mm with 1.6mm thick duly powder coated. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick Pre-laminated particle board in linear shape with appropriate PVC edge banding. The table understructure shall consist of CRCA	1	Nos.

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		rectangle pipe leg (loop leg) and (U-type leg) having cross-section area 40mm X 10mm and 95mm X 25mm with 1.6mm thick. There shall be shoe provided at the base to avoid scratches on the floor. The table shall have credenza unit for storage purpose with an overall size 1800mm X 600mm X 430mm. It should be made up of Pre-laminated particle board of grade II of IS 12823 with drawer base 9mm thick and other parts 18mm thick like shutter, back, facia, side panel etc. It shall have 3 drawer and 1 sliding shutter which is operated on ball bearing channel to enable smooth operation, SS handle and central locking mechanism in which all the drawer shall be synchronized locked with one single key. The credenza unit shall be mounted on CRCA rectangle pipe frame leg having cross-section area 40mm X 10mm with 1.5mm thick. The complete metal parts shall be duly powder coated to the thickness 50-60 μ dry film thickness. All the size shall have the tolerance of upper and lower deviation of ± 10 mm for board & ± 0.2 mm for metal. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification.		
6	Executive Chair	We are providing and fixing a high back chair. Seat and back made of hot pressed 18 mm thick moulded wooden ply with upholstered foam denisty 32 kg/m ³ in back & foam denisty 40+/-2 kg/m ³ in seat and leatherite tapestry. The revolving in 360-degree chair's mechanism will be swivel tilt with single point locking tension arrangment .Arm rests are made of polypropylene and cushioned with leatherite tapestry. The pneumatic seat height adjustable 65/100 mm in BIFMA standard class 3 with locking point. Pedelstal is made of injection moulded black nylon with 30% glass filled & fitted with 5 nos. twin wheels castors which are made of injection moulded black nylon.Seat size shall be- 19.5" (W) x 19" (D) and back height shall be 27" from seat & overall height : 42.5".	1	Nos.
7	Visitor Chairs	Providing and supplying visitor chair with ergonomically designed for user comfort. The seat and back shall be made of 15mm thick hot pressed commercial plywood with HR polyurethane foam 50mm thick having density 40kg/m ³ in seat and 25mm thick having density 32kg/m ³ in back. The same shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. The seat and back shall be arrested together with CRCA pipe frame and the armrest shall be used cushion arm mounted on PP armrest. The frame shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia. 28mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 500 ± 10 mm(W) X	3	Nos.

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		490±10 mm(D) and back size shall be 510±10 mm(H) from seat & overall height = 945±10 mm.		
8	Almirah For Storage	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. Door shall be made of 0.8mm thick and all other components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60 μ .	1	Nos.
9	Computers	Processor : 12th Generation Intel® Core™ i5-12600, 18MB cache, 6 cores, 12 threads, 3.30GHz to 4.80GHz, 65W Chipset : Intel B660 Chipset Graphics: Integrated UHD Graphics 700 series compatible with processor Memory: 8 GB DDR4 RAM 3200 MHz expandable up to 64 GB with min 2 DIMM Slots Ports : 1 RJ-45 port 10/100/1000 Mbps , 8 USB Ports (Min. 4 USB 3.2 ports), 1 Universal Audio Jack, 1 DisplayPorts 1.4, 1 HDMI 1.4b Slots : 3 full-height PCIe Gen 3 slots (Min. 1 full height PCIe x16) , 2 M.2 slots (Wireless + Storage) Primary Hard Drive : 512 GB M.2 PCIe NVMe SSD Display : 19.5" display with 1600 x 900 resolution LAN : Integrated Gigabit Ethernet LAN 10/100/1000 WLAN : Wi-Fi 802.11.ac + Bluetooth 5.0 Form Factor : Tower with Intrusion Switch not more than 14.9 Ltr Power Supply : 180W internal power supply unit (PSU), 85% Efficient Mouse : USB Keyboard (same make as pc) Keyboard : USB Keyboard (same make as pc) Operating System : Windows 11 Pro 64 Bit Security : Discrete TPM 2.0 (Hardware) Certification : Energy star 6.0, EPEAT India Certified for	1	Nos.

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		<p>Desktop & TCO 8.0 for Monitor, MIL STD 810 G (min.11)Test passed, ISO 9001:2008 certification</p> <p>BIOS : Configuration Tool to Enable these features in a single Tool power on password, set up password , USB port disable with life cycle management tool</p> <p>Support : Drivers should be available for download form OEM site for at least 3 years form the date of the purchases order. (drive cab to be available in support site).</p>		
10	Air Conditioner	<p>SITC of Air Conditioner of 3Star 1.5 Ton</p> <ul style="list-style-type: none"> • Feature Support 1.5 Ton Capacity • Feature Support Auto Restart • Feature Support Front Panel Display • Feature Support Rotary Compressor with Copper Fins • Installation Complete installation with Copper Pipes, Cables etc. 	1	Nos.
Assistant Registrar Room				
Room Size: 5908 x 6115				
1	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9 mm grid system (NRC 0.8) and supports as required.	400	Sq. Ft.
2	Wall Fans	<p>Mounting Type-Wall Mounted</p> <p>Power-50 W</p> <p>No. Of Blades-3</p> <p>Blade Material-Plastic</p> <p>Features Pull cords for speed regulation & wide oscillation control</p> <p>Swing-180 degree</p> <p>Number of Speed Settings-3</p> <p>Air Delivery-60 cu.mtr/min</p> <p>Sweep-400 mm</p> <p>Speed-1300 RPM</p> <p>Body Material-Plastic</p>	4	Nos.

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			10	Nos.
3	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.		
4	Room Electrical Work	Providing, fixing, testing and replacement work of VC Room with new material, which includes complete wiring work, MCB, Main junction Box, DB replacing, Power function, Main supply box, Power Cable, Power switches, Switches & Sockets for LED lights and Fans, Copper wire, Drainage pipe and power cable for AC, Electrical Conduit, etc.	1	Job
5	Executive Table	Supplying & Placing executive table with credenza unit in completely knock down conditions with an overall size 1950mm X 1800mm X 750mm that is to be assembled at site. The worktop shall have the size 1950mm X 900mm made up of 25mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The top shall be supported on CRCA powder coated rectangle pipe having cross-section area 40mm X 20mm with 1.6mm thick. The table shall be clad with 1mm thick modesty panel which provide structural support for the table. It should be 1mm thick with star perforation CRCA powder coated sheet in linear shape. The understructure shall consist of loop leg and C-type leg made up of CRCA powder coated triangular shape pipe having cross-section area 53mm X 53mm X 75mm with 1.6mm thick. There shall be shoe provided at the base to avoid scratches on the floor. Side top shall be provided with an overall size 800mm X 500mm X 750mm made up of 25mm thick Pre-laminated particle board of grade II of IS 12823. It shall be supported on peg which is mounted on credenza unit. The credenza unit shall have overall size 1400mm X 575mm X 500mm. It should be made up of Pre-laminated particle board of grade II of IS 12823 with drawer base 9mm thick and other parts 18mm thick like shutter, back, facia, side panel etc. It shall have 2 box drawer, 1 filing drawer and 1 shutter. The drawer shall be	2	Nos.

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		operated with roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized locked with one single key. The shutter shall be operated by SS handle and concealed crank hinge. The credenza unit shall be mounted over CRCA powder coated U shape leg having cross-section area 53mm X 53mm x 75mm with 1.6mm thick. All the size shall have the tolerance of upper and lower deviation of ± 10 mm for board & ± 0.2 mm for metal. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.		
6	Executive Chair	We are providing and fixing a high back chair. Seat and back made of hot pressed 18 mm thick moulded wooden ply with upholstered foam denisty 32 kg/m ³ in back & foam denisty 40+/-2 kg/m ³ in seat and leatherite tapestry. The revolving in 360° degree chair's mechanism will be swivel tilt with single point locking tension arrangement. Arm rests are made of polypropylene and cushioned with leatherite tapestry. The pneumatic seat height adjustable 65/100 mm in BIFMA standard class 3 with locking point. Pedestal is made of injection moulded black nylon with 30% glass filled & fitted with 5 nos. twin wheels castors which are made of injection moulded black nylon. Seat size shall be- 19.5" (W) x 19" (D) and back height shall be 27" from seat & overall height : 42.5".	2	Nos.
7	Visitor Chairs	Providing and supplying visitor chair with ergonomically designed for user comfort. The seat and back shall be made of 15mm thick hot pressed commercial plywood with HR polyurethane foam 50mm thick having density 40kg/m ³ in seat and 25mm thick having density 32kg/m ³ in back. The same shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. The seat and back shall be arrested together with CRCA pipe frame and the armrest shall be used cushion arm mounted on PP armrest. The frame shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia. 28mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 500 \pm 10 mm(W) X 490 \pm 10 mm(D) and back size shall be 510 \pm 10 mm(H) from seat	4	Nos.

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		& overall height = 945±10 mm.		
8	Almirah For Storage	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. Door shall be made of 0.8mm thick and all other components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60 μ .	2	Nos.
11	Air Conditioner	SITC of Air Conditioner of 3Star 1.5 Ton <ul style="list-style-type: none"> • Feature Support 1.5 Ton Capacity • Feature Support Auto Restart • Feature Support Front Panel Display • Feature Support Rotary Compressor with Copper Fins • Installation Complete installation with Copper Pipes, Cables etc. 	2	Nos.

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12	Computers	Processor : 12th Generation Intel® Core™ i5-12600, 18MB cache, 6 cores, 12 threads, 3.30GHz to 4.80GHz, 65W Chipset : Intel B660 Chipset Graphics: Integrated UHD Graphics 700 series compatible with processor Memory: 8 GB DDR4 RAM 3200 MHz expandable up to 64 GB with min 2 DIMM Slots Ports : 1 RJ-45 port 10/100/1000 Mbps , 8 USB Ports (Min. 4 USB 3.2 ports), 1 Universal Audio Jack, 1 DisplayPorts 1.4, 1 HDMI 1.4b Slots : 3 full-height PCIe Gen 3 slots (Min. 1 full height PCIe x16) , 2 M.2 slots (Wireless + Storage) Primary Hard Drive : 512 GB M.2 PCIe NVMe SSD Display : 19.5" display with 1600 x 900 resolution LAN : Integrated Gigabit Ethernet LAN 10/100/1000 WLAN : Wi-Fi 802.11.ac + Bluetooth 5.0 Form Factor : Tower with Intrusion Switch not more than 14.9 Ltr Power Supply : 180W internal power supply unit (PSU), 85% Efficient Mouse : USB Keyboard (same make as pc) Keyboard : USB Keyboard (same make as pc) Operating System : Windows 11 Pro 64 Bit Security : Discrete TPM 2.0 (Hardware) Certification : Energy star 6.0, EPEAT India Certified for Desktop & TCO 8.0 for Monitor, MIL STD 810 G (min.11)Test passed, ISO 9001:2008 certification BIOS : Configuration Tool to Enable these features in a single Tool power on password, set up password , USB port disable with life cycle management tool Support : Drivers should be available for download from OEM site for at least 3 years from the date of the purchases order. (drive cab to be available in support site).	2	Nos.			
1	Accounts Assistant and Cashier Room	Room Size: 6000 x 3600	1	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9 mm grid system (NRC 0.8) and supports as required.	240	Sq. Ft.

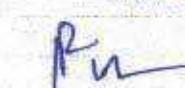
1	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9 mm grid system (NRC 0.8) and supports as required.	240	Sq. Ft.
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2	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	4	Nos.
3	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.	8	Nos.
4	Room Electrical Work	Providing, fixing, testing and replacement work of VC Room with new material, which includes complete wiring work, MCB, Main junction Box, DB replacing, Power function, Main supply box, Power Cable, Power switches, Switches & Sockets for LED lights and Fans, Copper wire, Drainage pipe and power cable for AC, Electrical Conduit, etc.	1	Job
5	Executive Table	Supplying and placing executive table in knock down condition with an overall size 1500mm X 750mm X 750mm that is to be assembled at site. The worktop shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The table top profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on MS/CRCA rectangle pipe frame having cross-section area 40mm X 20mm with 1.6mm thick. The table understructure shall be supplied with MS round pipe having dia. 25.4mm with 1.6mm thick. 1 nos. footstep shall be provided between both side leg with the same size i.e dia. 25.4mm with 1.6mm thick. Fixed pedestal unit shall be supplied with 3 nos. of drawer at one side. All the drawer shall be synchronized locked with central locking mechanism by	2	Nos.



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		one single key. The drawer shall be operated with recessed handle. All the size shall have the tolerance of upper and lower deviation of $\pm 10\text{mm}$ for board & $\pm 0.2\text{mm}$ for metal. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership & AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.		
6	Executive Chair	Providing and supplying high back chair with ergonomic design, comfortable & aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m^3 in seat and 40mm thick having density 32Kg/m^3 in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide lumbar support. The seat and back shall be arrested together with $50-60\mu$ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle Dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be $465\pm 10\text{ mm(W)} \times 460\pm 10\text{ mm(D)}$ and back size shall be $480\pm 10\text{ mm(W)} \times 625\pm 10\text{ mm(H)}$ from seat & overall height = $1060\pm 10\text{ mm}$.	2	Nos.
7	Visitor Chairs	Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m^3 in seat and 40mm thick having density 32Kg/m^3 in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest of the chair	4	Nos.

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		shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60 μ thick powder coated HR steel spine and the the armrest shall be used black integral polypropylene arm completely joint with seat. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 465 \pm 10 mm(W) X 460 \pm 10 mm(D) and back size shall be 480 \pm 10 (W) X 520 \pm 10 mm(H) from seat & overall height = 960 \pm 10mm.		
8	Side Storage	Supplying and placing fixed pedestal with an overall size 400mm X 450mm X 680mm. It shall be made up of Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. Pedestal side, back, facia shall be 18mm thick and drawer base shall be 9mm thick. The edges shall be sealed with 2mm/0.8mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. The pedestal shall have 3 nos. of drawer i.e. 2 box drawer and 1 filing drawer. The drawers shall be operated with Al die cast handles and easily close & open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized lock with one single key. To protect the wall from kicks, abrasion and serve as a decorative moulding skirting shall be provided with an overall size 364mm X 50mm. There shall be buffers provided at the base to avoid scratches on the floor. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.	2	Nos.
9	Almirah For Storage	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. Door shall be made of 0.8mm thick and all other components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is	2	Nos.




		assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60 μ .		
10	Computers	<p>Processor : 12th Generation Intel® Core™ i5-12600, 18MB cache, 6 cores, 12 threads, 3.30GHz to 4.80GHz, 65W</p> <p>Chipset : Intel B660 Chipset</p> <p>Graphics: Integrated UHD Graphics 700 series compatible with processor</p> <p>Memory: 8 GB DDR4 RAM 3200 MHz expandable up to 64 GB with min 2 DIMM Slots</p> <p>Ports : 1 RJ-45 port 10/100/1000 Mbps , 8 USB Ports (Min. 4 USB 3.2 ports), 1 Universal Audio Jack, 1 DisplayPorts 1.4, 1 HDMI 1.4b</p> <p>Slots : 3 full-height PCIe Gen 3 slots (Min. 1 full height PCIe x16) , 2 M.2 slots (Wireless + Storage)</p> <p>Primary Hard Drive : 512 GB M.2 PCIe NVMe SSD</p> <p>Display : 19.5" display with 1600 x 900 resolution</p> <p>LAN : Integrated Gigabit Ethernet LAN 10/100/1000</p> <p>WLAN : Wi-Fi 802.11.ac + Bluetooth 5.0</p> <p>Form Factor : Tower with Intrusion Switch not more than 14.9 Ltr</p> <p>Power Supply : 180W internal power supply unit (PSU), 85% Efficient</p> <p>Mouse : USB Keyboard (same make as pc)</p> <p>Keyboard : USB Keyboard (same make as pc)</p> <p>Operating System : Windows 11 Pro 64 Bit</p> <p>Security : Discrete TPM 2.0 (Hardware)</p> <p>Certification : Energy star 6.0, EPEAT India Certified for Desktop & TCO 8.0 for Monitor, MIL STD 810 G (min.11)Test passed, ISO 9001:2008 certification</p> <p>BIOS : Configuration Tool to Enable these features in a single Tool power on password, set up password , USB port disable with life cycle management tool</p> <p>Support : Drivers should be available for download from OEM site for at least 3 years from the date of the purchases order. (drive cab to be available in support site).</p>	2	Nos.

Legal Assistant Room

Room Size: 6000 x 3600

1	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9 mm grid system (NRC 0.8) and supports as required.	240	Sq. Ft.
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2	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	4	Nos.
3	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.	6	Nos.
4	Room Electrical Work	Providing, fixing, testing and replacement work of VC Room with new material, which includes complete wiring work, MCB, Main Junction Box, DB replacing, Power function, Main supply box, Power Cable, Power switches, Switches & Sockets for LED lights and Fans, Copper wire, Drainage pipe and power cable for AC, Electrical Conduit, etc.	1	Job
5	Executive Table	Providing and supplying executive table with an overall size 1500mm X 750mm X 750mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on CRCA C-frame with 0.9mm thick duly powder coated. The understructure shall consist of MS/CRCA rectangle pipe frame having cross-section area 38mm X 25mm with 1.2mm thick. Fixed top supporting pedestal shall be supplied at one side of the table. The pedestal shall be made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS:513. It should have 3 nos. of drawer i.e. 2 box and 1 filing. It should be operated on ball bearing sliding channel and recessed plastic handle with	1	Nos.

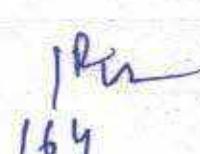



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		centralized locking mechanism. The table shall be clad with modesty panel. It should be 18mm thick made up of Pre-laminated particle board. There shall be leveller provided at the bottom. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership & AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.		
6	Executive Chair	Providing and supplying high back chair with ergonomic design, comfortable & aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m ³ in seat and 40mm thick having density 32Kg/m ³ in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest shall be made by keeping the natural curvature of the spine which helps to provide lumbar support. The seat and back shall be arrested together with 50-60 μ thick powder coated HR steel spine and the armrest shall be used black integral polypropylene arm completely joint with seat. For seating durability the chair shall have synchro tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 120mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should have five legged injection moulded in black 30% glass filled nylon having pitch circle Dia. 700mm and fitted with 5 nos. twin wheel castors. The castors of the chair should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA standards X5.1-2011 tested to perform 98,000 cycle with 250lbs load. The seat size shall be 465 \pm 10 mm(W) X 460 \pm 10 mm(D) and back size shall be 480 \pm 10 mm(W) X 625 \pm 10 mm(H) from seat & overall height = 1060 \pm 10 mm.	1	Nos.
7	Visitor Chairs	Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m ³ in seat and 40mm thick having density 32Kg/m ³ in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The backrest of the chair	2	Nos.

		shall be made by keeping the natural curvature of the spine which helps to provide back support. The seat and back shall be arrested together with 50-60 μ thick powder coated HR steel spine and the the armrest shall be used black integral polypropylene arm completely joint with seat. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 465±10 mm(W) X 460±10 mm(D) and back size shall be 480±10 (W) X 520±10 mm(H) from seat & overall height = 960±10mm.		
9	Almirah For Storage	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. Door shall be made of 0.8mm thick and all other components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60 μ .	4	Nos.





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10	Computers	Processor : 12th Generation Intel® Core™ i5-12600, 18MB cache, 6 cores, 12 threads, 3.30GHz to 4.80GHz,, 65W Chipset : Intel B660 Chipset Graphics: Integrated UHD Graphics 700 series compatible with processor Memory: 8 GB DDR4 RAM 3200 MHz expandable up to 64 GB with min 2 DIMM Slots Ports : 1 RJ-45 port 10/100/1000 Mbps , 8 USB Ports { Min. 4 USB 3.2 ports}, 1 Universal Audio Jack, 1 DisplayPorts 1.4, 1 HDMI 1.4b Slots : 3 full-height PCIe Gen 3 slots (Min. 1 full height PCIe x16) , 2 M.2 slots (Wireless + Storage) Primary Hard Drive : 512 GB M.2 PCIe NVMe SSD Display : 19.5" display with 1600 x 900 resolution LAN : Integrated Gigabit Ethernet LAN 10/100/1000 WLAN : Wi-Fi 802.11.ac + Bluetooth 5.0 Form Factor : Tower with Intrusion Switch not more than 14.9 Ltr Power Supply : 180W internal power supply unit (PSU), 85% Efficient Mouse : USB Keyboard (same make as pc) Keyboard : USB Keyboard (same make as pc) Operating System : Windows 11 Pro 64 Bit Security : Discrete TPM 2.0 (Hardware) Certification : Energy star 6.0, EPEAT India Certified for Desktop & TCO 8.0 for Monitor, MIL STD 810 G (min.11)Test passed, ISO 9001:2008 certification BIOS : Configuration Tool to Enable these features in a single Tool power on password, set up password , USB port disable with life cycle management tool Support : Drivers should be available for download from OEM site for at least 3 years from the date of the purchases order. (drive cab to be available in support site).	1	Nos.

Informatics Assistant and Assistant Programmer Room

Room Size: 6000 x 6680

1	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9 mm grid system (NRC 0.8) and supports as required.	460	Sq. Ft.
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2	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	6	Nos.
3	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.	10	Nos.
4	Room Electrical Work	Providing, fixing, testing and replacement work of VC Room with new material, which includes complete wiring work, MCB, Main junction Box, DB replacing, Power function, Main supply box, Power Cable, Power switches, Switches & Sockets for LED lights and Fans, Copper wire, Drainage pipe and power cable for AC, Electrical Conduit, etc.	1	Job
5	Executive Table	Providing and supplying executive table with an overall size 1200mm X 600mm X 750mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on CRCA C-frame with 0.9mm thick duly powder coated. The understructure shall consist of MS/CRCA rectangle pipe frame having cross-section area 38mm X 25mm with 1.2mm thick. Fixed top supporting pedestal shall be supplied at one side of the table. The pedestal shall be made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS:513. It should have 3 nos. of drawer i.e. 2 box and 1 filing. It should be operated on ball bearing sliding channel and recessed plastic handle with	4	Nos.

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		centralized locking mechanism. The table shall be clad with half modesty panel. There shall be leveller provided at the bottom. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership & AIOTA certification.		
6	Executive Chair	Providing and supplying high back chair with ergonomic design, comfortable & aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m ³ in seat and 40mm thick having density 40Kg/m ³ in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The back and base of the chair shall be supplied with polypropylene bead on edges and the backrest shall be made by keeping the natural curvature of the spine with lumbar support. The seat and back shall be arrested together with 50-60 μ thick powder coated HR steel spine and the armrest shall be used black integral polyurethane arm with metal insert completely joint with seat and back. For seating durability the chair shall have swivel tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should be five legged injection moulded in black 30% glass filled nylon having pitch circle Dia. 700 \pm 15 mm and fitted with 5 nos. twin wheel castors. The castors of the chairs should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA Standards X5.1-2011 tested to perform 98,000 cycles with 250lbs load. The seat size shall be 475 \pm 10 mm(W) X 460 \pm 10 mm(D) and back size shall be 470 \pm 10 mm(W) X 610 \pm 10 mm(H) from seat. Overall height shall be = 1050 \pm 10 mm, Overall width (arm) = 545 \pm 10 mm, base width/ depth = 760 \pm 10 mm.	4	Nos.





7	Visitor Chairs	Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 15mm thick hot-pressed commercial plywood padded with high resilience molded polyurethane foam 50mm thick having density 40kg/m ³ in seat and 40mm thick having density 40Kg/m ³ in back. The same shall be upholstered with tapestry 1mm thick and 300 GSM. The back and base of chair shall be supplied with polypropylene bead on edges and the backrest shall be made by keeping the natural curvature of the spine. The seat and back shall be arrested together with 50-60 μ thick powder coated HR steel spine and the armrest shall be used of black integral polyurethane arm with metal insert completely joint with seat and back. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia. 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 460±10 mm(W) X 450±10 mm(D) and back size shall be 460±10 mm(W) X 400±10 mm(H) from seat. Seat height = 450±10 mm, Overall height shall be = 830±10 mm, Overall width - 555±10 mm, overall depth = 595±10 mm.	8	Nos.
8	Almirah For Storage	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. Door shall be made of 0.8mm thick and all other components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60 μ .	4	Nos.

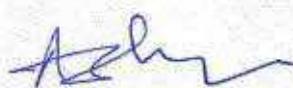
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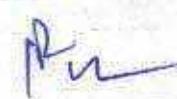
9	Computers	Processor : 12th Generation Intel® Core™ i5-12600, 18MB cache, 6 cores, 12 threads, 3.30GHz to 4.80GHz, 65W Chipset : Intel B660 Chipset Graphics: Integrated UHD Graphics 700 series compatible with processor Memory: 8 GB DDR4 RAM 3200 MHz expandable up to 64 GB with min 2 DIMM Slots Ports : 1 RJ-45 port 10/100/1000 Mbps , 8 USB Ports (Min. 4 USB 3.2 ports), 1 Universal Audio Jack, 1 DisplayPorts 1.4, 1 HDMI 1.4b. Slots : 3 full-height PCIe Gen 3 slots (Min. 1 full height PCIe x16) , 2 M.2 slots (Wireless + Storage) Primary Hard Drive : 512 GB M.2 PCIe NVMe SSD Display : 19.5" display with 1600 x 900 resolution LAN : Integrated Gigabit Ethernet LAN 10/100/1000 WLAN : Wi-Fi 802.11.ac + Bluetooth 5.0 Form Factor : Tower with Intrusion Switch not more than 14.9 Ltr Power Supply : 180W internal power supply unit (PSU), 85% Efficient Mouse : USB Keyboard (same make as pc) Keyboard : USB Keyboard (same make as pc) Operating System : Windows 11 Pro 64 Bit Security : Discrete TPM 2.0 (Hardware) Certification : Energy star 6.0, EPEAT India Certified for Desktop & TCO 8.0 for Monitor, MIL STD 810 G (min.11)Test passed, ISO 9001:2008 certification BIOS : Configuration Tool to Enable these features in a single Tool power on password, set up password , USB port disable with life cycle management tool Support : Drivers should be available for download from OEM site for at least 3 years from the date of the purchases order. (drive cab to be available in support site).	4	Nos.
Senior Assistant Room	Room Size: 5700 X 11030			

1	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9 mm grid system (NRC 0.8) and supports as required.	710	Sq. Ft.
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2	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	8	Nos.
3	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.	20	Nos.
4	Room Electrical Work	Providing, fixing, testing and replacement work of VC Room with new material, which includes complete wiring work, MCB, Main junction Box, DB replacing, Power function, Main supply box, Power Cable, Power switches, Switches & Sockets for LED lights and Fans, Copper wire, Drainage pipe and power cable for AC, Electrical Conduit, etc.	1	Job






5	Executive Table	Supplying & Placing Modular table in completely knock down conditions with an overall size 1500mm X 1650mm X 750mm that is to be assembled at site. The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The worktop shall have the size 1500mm X 750mm made up of 25mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The side top shall have the size 900mm X 450mm X 750mm with 25mm thick Pre-laminated particle board. The table top profile shall be in rectangle shape with one side round and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. A pullout keyboard tray shall be provided of 18mm thick Pre-laminated particle board. The tray shall be operated on keyboard channel. The table top and side top shall be supported over particle board base gable end. The end wall of the table on the side shall be topped by gable end. It should be made up of 25mm thick particle board and profile shall be in linear shape with appropriate PVC edge banding. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. It should be 18mm thick particle board with appropriate PVC edge banding connected with both end. There shall be buffers provided at the bottom to avoid scratches on the floor. A mobile pedestal shall be provided with an overall size 400mm X 450mm X 680mm. The pedestal shall be made up of Pre-laminated particle board of grade II of IS 12823. Pedestal side, back, top, facia shall be 18mm thick and drawer base shall be 9mm thick. The pedestal shall have 3 nos. of drawer i.e. 2 box drawer and 1 filing drawer. The drawer shall be operated with handle and easily close & open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized locked with one single key. The pedestal shall be mounted over 50mm injection moulded nylon castor. A movable type CPU unit shall be provided. It should be made up of 18mm thick particle board. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.	4	Nos.
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Ashley

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6	Executive Chair	We are providing and fixing a high back chair. Seat and back made of hot pressed 18 mm thick moulded wooden ply with upholstered foam density 32 kg/m ³ in back & foam density 40+/-2 kg/m ³ in seat and leatherite tapestry. The revolving in 360-degree chair's mechanism will be swivel tilt with single point locking tension arrangement. Arm rests are made of polypropylene and cushioned with leatherite tapestry. The pneumatic seat height adjustable 65/100 mm in BIFMA standard class 3 with locking point. Pedestal is made of injection moulded black nylon with 30% glass filled & fitted with 5 nos. twin wheels castors which are made of injection moulded black nylon. Seat size shall be- 19.5" (W) x 19" (D) and back height shall be 27" from seat & overall height : 42.5".	4	Nos.
7	Visitor Chairs	Providing and supplying visitor chair with ergonomically designed for user comfort. The seat and back shall be made of 15mm thick hot pressed commercial plywood with HR polyurethane foam 50mm thick having density 40kg/m ³ in seat and 25mm thick having density 32kg/m ³ in back. The same shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. The seat and back shall be arrested together with CRCA pipe frame and the armrest shall be used cushion arm mounted on PP armrest. The frame shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia. 28mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 500±10 mm(W) X 490±10 mm(D) and back size shall be 510±10 mm(H) from seat & overall height = 945±10 mm.	8	Nos.
8	Almirah For Storage	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. Door shall be made of 0.8mm thick and all other components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60µ.	4	Nos.

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9	Computers	Processor : 12th Generation Intel® Core™ i5-12600, 18MB cache, 6 cores, 12 threads, 3.30GHz to 4.80GHz, 65W Chipset : Intel B660 Chipset Graphics: Integrated UHD Graphics 700 series compatible with processor Memory: 8 GB DDR4 RAM 3200 MHz expandable up to 64 GB with min 2 DIMM Slots Ports : 1 RJ-45 port 10/100/1000 Mbps , 8 USB Ports (Min. 4 USB 3.2 ports), 1 Universal Audio Jack, 1 DisplayPorts 1.4, 1 HDMI-1.4b Slots : 3 full-height PCIe Gen 3 slots (Min. 1 full height PCIe x16) , 2 M.2 slots (Wireless + Storage) Primary Hard Drive : 512 GB M.2 PCIe NVMe SSD Display : 19.5" display with 1600 x 900 resolution LAN : Integrated Gigabit Ethernet LAN 10/100/1000 WLAN : Wi-Fi 802.11.ac + Bluetooth 5.0 Form Factor : Tower with Intrusion Switch not more than 14.9 Ltr Power Supply : 180W internal power supply unit (PSU), 85% Efficient Mouse : USB Keyboard (same make as pc) Keyboard : USB Keyboard (same make as pc) Operating System : Windows 11 Pro 64 Bit Security : Discrete TPM 2.0 (Hardware) Certification : Energy star 6.0, EPEAT India Certified for Desktop & TCO 8.0 for Monitor, MIL STD 810 G (min.11) Test passed, ISO 9001:2008 certification BIOS : Configuration Tool to Enable these features in a single Tool power on password, set up password , USB port disable with life cycle management tool Support : Drivers should be available for download from OEM site for at least 3 years from the date of the purchases order. (drive cab to be available in support site).	4	Nos.
Junior Assistant	Room Size: 6185 x 1130			

1	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9 mm grid system (NRC 0.8) and supports as required.	630	Sq. Ft.
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173

2	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	10	Nos.
3	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.	18	Nos.
4	Room Electrical Work	Providing, fixing, testing and replacement work of VC Room with new material, which includes complete wiring work, MCB, Main junction Box, DB replacing, Power function, Main supply box, Power Cable, Power switches, Switches & Sockets for LED lights and Fans, Copper wire, Drainage pipe and power cable for AC, Electrical Conduit, etc.	1	Job
5	Executive Table	Providing and supplying executive table with an overall size 1200mm X 600mm X 750mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on CRCA C-frame with 0.9mm thick duly powder coated. The understructure shall consist of MS/CRCA rectangle pipe frame having cross-section area 38mm X 25mm with 1.2mm thick. Fixed top supporting pedestal shall be supplied at one side of the table. The pedestal shall be made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS:513. It should have 3 nos. of drawer i.e. 2 box and 1 filing. It should be operated on ball bearing sliding channel and recessed plastic handle with	5	Nos.

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		centralized locking mechanism. The table shall be clad with half modesty panel. There shall be leveller provided at the bottom. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership & AIOTA certification.		
6	Executive Chair	Providing and supplying high back chair with ergonomic design, comfortable & aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m ³ in seat and 40mm thick having density 40Kg/m ³ in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The back and base of the chair shall be supplied with polypropylene bead on edges and the backrest shall be made by keeping the natural curvature of the spine with lumbar support. The seat and back shall be arrested together with 50-60 μ thick powder coated HR steel spine and the armrest shall be used black integral polyurethane arm with metal insert completely joint with seat and back. For seating durability the chair shall have swivel tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should be five legged injection moulded in black 30% glass filled nylon having pitch circle Dia. 700 \pm 15 mm and fitted with 5 nos. twin wheel castors. The castors of the chairs should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA Standards X5.1-2011 tested to perform 98,000 cycles with 250lbs load. The seat size shall be 475 \pm 10 mm(W) X 460 \pm 10 mm(D) and back size shall be 470 \pm 10 mm(W) X 610 \pm 10 mm(H) from seat. Overall height shall be = 1050 \pm 10 mm, Overall width (arm) = 545 \pm 10 mm, base width/ depth = 760 \pm 10 mm.	5	Nos.

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7	Visitor Chairs	Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 15mm thick hot-pressed commercial plywood padded with high resilience molded polyurethane foam 50mm thick having density 40kg/m ³ in seat and 40mm thick having density 40Kg/m ³ in back. The same shall be upholstered with tapestry 1mm thick and 300 GSM. The back and base of chair shall be supplied with polypropylene bead on edges and the backrest shall be made by keeping the natural curvature of the spine. The seat and back shall be arrested together with 50-60 μ thick powder coated HR steel spine and the armrest shall be used of black integral polyurethane arm with metal insert completely joint with seat and back. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia. 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 460±10 mm(W) X 450±10 mm(D) and back size shall be 460±10 mm(W) X 400±10 mm(H) from seat. Seat height = 450±10 mm, Overall height shall be = 830±10 mm, Overall width - 555±10 mm, overall depth = 595±10 mm.	10	Nos.
8	Almirah For Storage	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. Door shall be made of 0.8mm thick and all other components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60 μ .	5	Nos.

176

9	Computers	Processor : 12th Generation Intel® Core™ i5-12600, 18MB cache, 6 cores, 12 threads, 3.30GHz to 4.80GHz, 65W Chipset : Intel B660 Chipset Graphics: Integrated UHD Graphics 700 series compatible with processor Memory: 8 GB DDR4 RAM 3200 MHz expandable up to 64 GB with min 2 DIMM Slots Ports : 1 RJ-45 port 10/100/1000 Mbps, 8 USB Ports (Min. 4 USB 3.2 ports), 1 Universal Audio Jack, 1 DisplayPorts 1.4, 1 HDMI 1.4b Slots : 3 full-height PCIe Gen 3 slots (Min. 1 full height PCIe x16) , 2 M.2 slots (Wireless + Storage) Primary Hard Drive : 512 GB M.2 PCIe NVMe SSD Display : 19.5" display with 1600 x 900 resolution LAN : Integrated Gigabit Ethernet LAN 10/100/1000 WLAN : Wi-Fi 802.11.ac + Bluetooth 5.0 Form Factor : Tower with Intrusion Switch not more than 14.9 Ltr Power Supply : 180W internal power supply unit (PSU), 85% Efficient Mouse : USB Keyboard (same make as pc) Keyboard : USB Keyboard (same make as pc) Operating System : Windows 11 Pro 64 Bit Security : Discrete TPM 2.0 (Hardware) Certification : Energy star 6.0, EPEAT India Certified for Desktop & TCO 8.0 for Monitor, MIL STD 810 G (min.11)Test passed, ISO 9001:2008 certification BIOS : Configuration Tool to Enable these features in a single Tool power on password, set up password , USB port disable with life cycle management tool Support : Drivers should be available for download from OEM site for at least 3 years from the date of the purchases order. (drive cab to be available in support site).	5	Nos.

Establishment Office

Room Size: 6115 x 4430

1	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9 mm grid system (NRC 0.8) and supports as required.	300	Sq. Ft.
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2	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic	6	Nos.
3	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.	12	Nos.
4	Room Electrical Work	Providing, fixing, testing and replacement work of VC Room with new material, which includes complete wiring work, MCB, Main junction Box, DB replacing, Power function, Main supply box, Power Cable, Power switches, Switches & Sockets for LED lights and Fans, Copper wire, Drainage pipe and power cable for AC, Electrical Conduit, etc.	1	Job
5	Executive Table	Providing and supplying executive table with an overall size 1200mm X 600mm X 750mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and finish as per approved shade. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree celsius. The top shall be supported on CRCA C-frame with 0.9mm thick duly powder coated. The understructure shall consist of MS/CRCA rectangle pipe frame having cross-section area 38mm X 25mm with 1.2mm thick. Fixed top supporting pedestal shall be supplied at one side of the table. The pedestal shall be made up of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS:513. It should have 3 nos. of drawer i.e. 2 box and 1 filing. It should be operated on ball bearing sliding channel and recessed plastic handle with	3	Nos.

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		centralized locking mechanism. The table shall be clad with half modesty panel. There shall be leveller provided at the bottom. The manufacturer shall have basic quality and safety certifications like ISO-9001:2015, ISO-14001: 2015, ISO-18001:2007, BIFMA Membership & AIOTA certification.		
6	Executive Chair	Providing and supplying high back chair with ergonomic design, comfortable & aesthetically appealing. The seat and back shall be made of 15mm thick hot pressed commercial plywood padded with high resilience moulded polyurethane foam 50mm thick having density 40kg/m ³ in seat and 40mm thick having density 40Kg/m ³ in back. The same shall be upholstered with fabric tapestry 1mm thick and 300 GSM. The back and base of the chair shall be supplied with polypropylene bead on edges and the backrest shall be made by keeping the natural curvature of the spine with lumbar support. The seat and back shall be arrested together with 50-60 μ thick powder coated HR steel spine and the armrest shall be used black integral polyurethane arm with metal insert completely joint with seat and back. For seating durability the chair shall have swivel tilt 360 degree revolving mechanism with upright position locking and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 100mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA X5.1-2011 standards. The pedestal should be five legged injection moulded in black 30% glass filled nylon having pitch circle Dia. 700 \pm 15 mm and fitted with 5 nos. twin wheel castors. The castors of the chairs should be injection moulded in black 30% glass filled nylon, confirming to ANSI/BIFMA Standards X5.1-2011 tested to perform 98,000 cycles with 250lbs load. The seat size shall be 475 \pm 10 mm(W) X 460 \pm 10 mm(D) and back size shall be 470 \pm 10 mm(W) X 610 \pm 10 mm(H) from seat. Overall height shall be = 1050 \pm 10 mm, Overall width (arm) = 545 \pm 10 mm, base width/ depth = 760 \pm 10 mm.	3	Nos.

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7	Visitor Chairs	Providing and supplying visitor chair with ergonomic design for user comfort. The seat and back shall be made of 15mm thick hot-pressed commercial plywood padded with high resilience molded polyurethane foam 50mm thick having density 40kg/m ³ in seat and 40mm thick having density 40Kg/m ³ in back. The same shall be upholstered with tapestry 1mm thick and 300 GSM. The back and base of chair shall be supplied with polypropylene bead on edges and the backrest shall be made by keeping the natural curvature of the spine. The seat and back shall be arrested together with 50-60 μ thick powder coated HR steel spine and the armrest shall be used of black integral polyurethane arm with metal insert completely joint with seat and back. The frame structure shall be cantilever support type made up of MS/CRCA powder coated round pipe of Dia. 25.4mm with 2mm thick. There shall be co-polymer polypropylene shoe provided at the base to avoid scratches on the floor. The seat size shall be 460 \pm 10 mm(W) X 450 \pm 10 mm(D) and back size shall be 460 \pm 10 mm(W) X 400 \pm 10 mm(H) from seat. Seat height = 450 \pm 10 mm, Overall height shall be = 830 \pm 10 mm, Overall width - 555 \pm 10 mm, overall depth = 595 \pm 10 mm.	6	Nos.
8	Almirah For Storage	Providing, supplying and placing steel almirah in perfectly upright and straight position. The overall size of the Almirah shall be 915mm (W) X 485mm (D) X 1980mm (H) including legs. It should be supplied with 4 nos. of adjustable shelves i.e. 5 loading compartments. Door shall be made of 0.8mm thick and all other components shall be made of 0.8mm thick high yield strength CRCA sheet of grade 'D' confirming to IS: 513. Stiffeners shall be provided in shelf & door. The steel hinged door shall be provided with locking mechanism which is assembled with bolt arrangement. The shelves shall have folded constructions which have intrinsic rigidity and high load carrying capacity. Uniformly distributed load capacity per each shelf shall be 40kg maximum. The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to be thickness 50-60 μ .	3	Nos.

Reception Cum Waiting Area

Size : 12000 x 9345

1	False Ceiling	Providing and Fixing of Acoustic Grid Ceiling 2' x 2' with 9 mm grid system (NRC 0.8) and supports as required.	1240	Sq. Ft.
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HSL

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			12	Nos.
2	Wall Fans	Mounting Type-Wall Mounted Power-50 W No. Of Blades-3 Blade Material-Plastic Features Pull cords for speed regulation & wide oscillation control Swing-180 degree Number of Speed Settings-3 Air Delivery-60 cu.mtr/min Sweep-400 mm Speed-1300 RPM Body Material-Plastic		
3	LED Lights	Supply and Installation LED panel light in White colour (2x2). The panel light is made from Die Cast Aluminum with Powder Coated White finish. Power consumption for the light is 6 watt, and voltage specification is 230 V AC, while the luminous intensity is 105 lm per watt, saving light and electricity. It has Anti-Glare Diffuser, & LED Chip: SMD 2835. The light can be fixed into Recessed, POP, or False ceiling. Beam Angle: 120 Degree Body Color: White Color Temperature: 6000-6500K CRI: Ra 75 LED Chip: San An Lifetime: 50,000hrs. Light Color: Cool White Light Source: 75 pcs SMD 2835 Luminous Flux: 1350Lm Material: Aluminum.	30	Nos.
4	Room Electrical Work	Providing, fixing, testing and replacement work of VC Room with new material, which includes complete wiring work, MCB, Main junction Box, DB replacing, Power function, Main supply box, Power Cable, Power switches, Switches & Sockets for LED lights and Fans, Copper wire, Drainage pipe and power cable for AC, Electrical Conduit, etc.	1	Job
5	Reception Table	Supplying & placing reception table in completely knock down conditions with an overall size 2400mm X 700mm X 1000mm that is to be assembled at site. The worktop shall have the combination of 18mm thick Pre-laminated particle board of grade II of IS 12823 with approved laminate and shade as top and 25mm thick Medium density fibre-board with deco painted as base top with aesthetically grooves. The upper top shelf shall be made up of 25mm thick Pre-laminated particle board. It should be supported on 25mm thick particle board base vertical panel. The table profile shall be in curved shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degree Celsius. A pullout keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 550mm X 280mm. The tray shall be operated on sliding channel. The table shall be clad with 1mm thick modesty	1	Nos.

A
B
C
181

		panel which provide structural support for the table. It should be 1mm thick CRCA with perforated sheet duly powder coated connected with both end. The main top shall be supported on SS peg at front which mounted on the fixed pedestal and 4 nos. of legs made up of MDF board having cross-section area 100mm X 100mm. Fixed pedestal shall be provided with an overall size 400mm X 500mm X 610mm. The pedestal shall be made up of Pre-laminated particle board of grade II of IS 12823. Pedestal side, back, facia shall be 18mm thick & drawer base shall be 9mm thick. The pedestal shall have 3 nos. of drawer having same size. The drawer shall be operated with SS handle and easily close & open with the assistance of roller channel to enable smooth movement. The drawer shall be synchronized locked with central locking mechanism by one single key. All the size shall have the tolerance of upper and lower deviation of ± 10 mm for board & ± 0.2 mm for metal. The manufacturer shall have quality and safety assurance like ISO-9001:2015, ISO-14001:2015 and ISO-18001:2007, BIFMA membership and AIOTA certification. The board used should meet International Standard of quality, Indian standard IS 12823 grade II should meet long time load bending, screw-withdrawal strength, modulus of rupture and modulus of elasticity bending tested as per IS 2380.		
6	Reception Chair	Providing and supplying High back chair. The seat and back shall be made of high resilience polyurethane foam having 40mm thick and density 40kg/m ³ in seat and 40mm thick and density 32kg/m ³ in back. The seat and back shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. The backrest of the chair shall be made by keeping the natural curvature of the spine with lumbar support. The seat and back shall be arrested together with net tapestry. The armrest shall be used chrome plated metal frame with leatherette tapestry completely joint with seat and back. For seating durability the chair shall have knee tilt 360 degree revolving mechanism and tilt tension adjustment. The pneumatic seat height adjustment for healthy seating, user can adjust seat height up to 65mm with BIFMA standard class-3 gas-lift to suit them using the lever under the seat. The gas-lift mechanism should be tested as per ANSI/BIFMA standard. Heavy Duty Polished & Chromed Pedestal (Chair Base). Standard 50 mm(ID) X 100 mm(L) center hub hole to receive standard BIFMA standard class-3 gas-lift. The pedestal should have five legged, Specially designed and drawn from MS/CRCA Pipe Starts as Oval 45.5 \pm 2 mm(L) X 28.8 \pm 2 mm(W) X 2.0 mm(T) moving towards caster wheel fitting holes of 16.3 \pm 2 mm(OD) X 11.10 \pm 0.5 mm(ID) from Round Pipe	2	Nos.

AB

4

PN
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	MS/CRCA of Dia. 38.1 ± 2 mm(OD) X 2.0mm(T) X 775 ± 10 mm(L). Pedestal's legs are welded and aligned in pitch circle Dia. 700 ± 10 mm from center of the hub to the center of mounting of caster's wheels, Chromed with $20-25\mu$ (DFT) thick And Fitted with 5 nos. twin wheel castors covered with chromed PPC. The castors of the chair should be injection moulded in black nylon 30% glass filled, confirming to ANSI/BIFMA X5.1-2011 standard tested to perform 98,000 cycles with 250lbs load. HD- Built to hold more weight and withstand more than standard chair bases. Polished finish for elegant look. Specially Designed 5 Star base cover of PPC of 46.5mm(ID) 120mm(L) for Elegant look to cover welding Joints with Beautiful chromed finish.		
7	Magzine Racks Size:- Height:1900mm, Width:283mm, Depth:400mm: Sides made of 18mm thick pre-laminated particle board. Edges covered with PVC edge band on through feed edge bending machine. Shelf tray & Bottom Panel made by M.S.cold rolled close annealed Sheet. Tray slides on pvc roller bearing. All steel components are epoxy powder coated followed by seven tanks anti corrosion treatment of surface.	4	Nos.
8	Sofa Sets (3+1+1) Supplying and placing three seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m^3 in seat and 32Kg/m^3 in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 40Kg/m^3 . The complete structure shall be upholstered with leatherite tapestry 0.8 ± 0.1 mm thick and 535 GSM. The understructure shall consist of SS 202 grade pipe frame leg with shiny chrome finish having cross-section area 40mm X 20mm with 1.6mm thick. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat size shall be 530 ± 10 mm(D) X 1520 ± 10 mm(W), seat height = 430 ± 10 mm, overall width = 1800 ± 10 mm, overall depth = 720 ± 10 mm & overall height = 790 ± 10 mm.	2	Set

A/1

A/2

P/M

		Supplying and placing single seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The thickness of the wood should allow for the heavy tension webbing. The sofa shall have spring attached and also be padded separately. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m ³ in seat and 32Kg/m ³ in back. There shall be cushion arm provided padded with high resilience polyurethane foam having density 40Kg/m ³ . The complete structure shall be upholstered with leatherite tapestry 0.8±0.1 mm thick and 535 GSM. The understructure shall consist of SS 202 grade pipe frame having cross-section area 40mm X 20mm. There shall be shoe provided at the bottom to avoid scratches on the floor. The seat size shall be 530±10 mm(D) X 520±10 mm(W), seat height = 430±10 mm, overall width = 800±10 mm, overall depth = 720±10 mm & overall height = 790±10 mm.		
9	Center Table	Supplying & placing center table with an overall size 1200mm X 600mm X 450mm. The top shall be made up of 18mm thick Pre-laminated particle board of grade II of IS 12823. The profile shall be in rectangle shape and the edges shall be sealed with 2mm thick thin strip of impermeable PVC that is cut to fit the size of board panel and duly pasted with the assistance of edge banding machine at 200 degrees Celsius. The under structure shall consist of SS 202 grade pipe frame with shiny chrome finish having cross-section area 40mm X 20mm. There shall be PPCP shoe provided at the bottom to avoid scratches on the floor.	2	Nos.

Air Conditioners for Department Office

1	Air Conditioners for Legal Asst. - 1 Nos Junior Asst. - 2 Nos Senior Asst. - 2 Nos Informatics Asst. - 1 Nos Accounts Asst. - 1 Nos	SITC of Air Conditioner of 3Star 1.5 Ton <ul style="list-style-type: none"> • Feature Support 1.5 Ton Capacity • Feature Support Auto Restart • Feature Support Front Panel Display • Feature Support Rotary Compressor with Copper Fins • Installation Complete installation with Copper Pipes, Cables etc. 	7	Nos.
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Entrance Area of Building

1	Entrance facade	1	Job
2	Scaff Folding System		
3	Wall Art Work		

AS

AI

PL

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4	Idol of Bhartrihari ji		
5	Enquiry Window Provision (On Maximum Windows Opening Outside)	1	Job

- **SECTION 3 - BIDDER ELIGIBILITY CRITERIA**

- i. Bidder should be either a Manufacturer or OEM Authorized vendor. Necessary documentary evidence in support of the same (OEM/ Authorization Certificate/ MAF) shall be required to be uploaded by the bidder. Bidder must submit "Bid Specific Authorization" certificate from OEM for IT and Furniture Products respectively in original "ink signed and stamped" after the release date of the tender.
- ii. Participating bidder should have never been black listed/ debarred/ suspended by any Government/ Semi Government/ PSU/Banks/ Universities/ Educational Institute/ Autonomous body/E-procurement due to any reason. The bidder who is blacklisted / debarred/suspended once is not eligible to participate in this Bid with any kind of justification/judgment taken later on. Affidavit in this regard to be require on Stamp Paper for Rs. 100/- (As per Part-B) and the same has to be notarized after the start date of the tender.
- iii. Participating bidder must have to submit GST Certificate along with its latest clearance report (GSTR1), Bank Mandate and Registration certificate.
- iv. Participating bidder must have to submit Turnover Certificate, Audited Balance Sheet, ITR and Profit and Loss Account for last three financial years i.e. 2019-2020, 2020-2021 and 2021-2022. The turnover certificate should be certified by Chartered Accountant only and the same should be printed on CA's letter head. The bidder must have an average minimum turnover for Rs. 3Cr or more as per the financial years as described above.
- v. Bidder Financial standings: - The participating bidder should not under any liquidation; court receivership or similar proceedings should not be bankrupt. Bidder to upload undertaking to this effect with tender stamp paper of Rs. 500/- with duly notarized after the release date of the bid. Hard copy of original Stamp Paper is to be sent to our university before last date of the bid.
- vi. Validity of prices should be for a period of 90 days from the date of tender opening.
- vii. Participating bidder should quote prices in Indian Rupees(INR) only. No other currency will be accepted.
- viii. Participating Bidders are advised to visit and examine the working site and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid. The costs of visiting the site shall be borne

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by the Bidder. The Bidder can visit in office working hours/days before the last date of the bid.

- ix. OEM or its participating bidder should have the following certificates for products of furniture category (to be uploaded with tender):
 - i) Should have in-house testing lab to test the raw material and finished product. The list of available testing equipment should be submitted. These testing equipment's should have up-to-date calibration certificates by any NABL approved lab.
 - ii) BIFMA and IGBC membership from last 5 years continuously.
 - iii) ISO (9001,45001,14001, 50001) issued by NABCB accredited agency.
 - iv) Manufacture Should have Valid factory license with valid Inspection report/ feasibility report of the above required plant and machinery /testing equipment's issued by third party agency like IRS/SGS/RITES to be submitted (report should not be older than 5 years). Also submit the details of the machinery installed in the plant.
 - v) Should be a reputed manufacturer of wooden and steel furniture items and should have its own manufacturing set-up in India. Documentary proof such as PAN, Incorporation Certificate, MSME Certificate, Factory License and Trade Mark Certificate for their Brand Name should be submitted
 - vi) Should have Help Line Number (Toll Free Number) operational at least from last five years. Documentary proof to be submitted.
 - vii) AIOTA Certificate in category of Storage System, Office Furniture Including Seating System Range and Education Furniture Range.
 - viii) Bank Solvency Certificate issued from any nationalized/scheduled bank worth Six Crore or more which should not be more than 6 months old from the last date of tender submission.
 - ix) Should have green pro and GRIHA certificate.
 - x) Should have green guard certificate for any one quoted products from UL. Copy of the certificate is to be attached with the tender along with link from UL website.
 - xi) BIFMA Standard ANSI/BIFMA X6.1-2018 from any BIFMA approved Laboratory for any furniture category product. Test Report should be submitted.
- x. Participating bidder or its OEM should have successfully supplied and installed minimum 80% of the bid quantity of Primary Category furniture product (student desk/student chair) in any Central Government/State Government/PSU/Educational Institute, through single order, in any last 5 years. Purchase order and completion certificate should be submitted as documentary proof.
- xi. Bidder or its OEM should have experience of successfully completed the similar nature of work in any Central Government/State Government/PSU/Educational Institute during last five years as follows:
 - i) One similar work each costing not less than the amount equal to 80% of the

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probable amount of contract.

Or

ii) Two similar work each costing not less than the amount equal to 50% of the probable amount of contract.

Or

iii) Three similar work each costing not less than the amount equal to 30% of the probable amount of contract."

- Similar nature means supply and installation of Institution furniture/office furniture and IT products respectively. Copies of work order, gem contracts/completion certificate etc. to be attached with the bid.

xii. The bidder should furnish the following undertakings and declarations on its letter head and upload with the bid: -

- Quoted item is of the latest of technology and till date no revised or amended version has been launched and the spare parts will remain available for at least for next 3 years.
- Products to be supplied/ installed should be brand new and as per the exact specification provided in the Bid document.
- The bidder should be a Proprietorship Firm/Partnership firm/Company. No consortium is allowed.
- The solution provided by the bidder should be exact to the specification provided in the document. Any higher/ lower specification or solution quoted will lead to disqualification of bid as the solution/ specifications of products have been made keeping in mind the specific requirement of the university.

xiii. OEM or its participating bidder should have the following certificates for computer (to be uploaded with tender): -

- ISO 9001: 2008
- Energy Star Certificate 6.0
- EPEAT India Certified for Desktop & TCO 8.0 for Monitor
- MIL STD 810G (min.11) Test Passed
- Undertaking for driver should be available for download from OEM site for at least 3 years from the date of start of the project/contract.

xiv. Acceptance by bidder for 02 mandatory preventive visits during the warranty period and communicate with department for technical support and assistance. Acceptance letter is to be attached along with the bid.

xv. The bidder has to put the firm's seal and signature in full at all pages of the bidding document. Bid must be submitted and signed by the authorized signatory. Conditional and incomplete offer will be liable to be rejected.

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xvi. The samples of items may be invited if required by University from technically qualified bidders only for major quantity items of furniture and IT Products. If the samples submitted by the bidder would not be up to the mark as per the bid requirement, the bid of such bidders would be rejected and the financial bid would not be opened. Bidder should give undertaking to supply the samples to University at Bidder's own cost & risk on the company's letter head.

xvii. Data Sheet of all the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.

xviii. Compliance sheet for all the products/work is to be attached with the bid.

xix. Technical Catalogue for Interactive Panel, Mini PC/OPS & Web Camera, Smart/Digital Podium, VC Camera, etc to be attached with the technical bid and same should be available on OEMs' website. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, or Non-Compliance shall result in rejection of Bid.

xx. The successful tenderer should provide one-year comprehensive warranty for all the quoted products/items as mentioned in the specifications sheet. Declaration in this regard is to be provided on bidder's letter and attached with the technical documents.

xxi. Bidder may be asked to provide detailed technical demonstration of all the quoted models of IT products if required within a notice of 6/7 days.

xxii. All the undertaking, declarations, acceptance etc. should be tender specific and also mentioned the tender number, without this no documents will be considered and the bid will be rejected.

xxiii. In case the bidder is an authorized distributor/ dealer then all the required documents of OEM would be applicable for qualification.

xxiv. Certifications of the IT Products as mentioned in the technical specification of the products (IFPD's, Digital Podiums etc.) must be enclosed with the bid. Non-Compliance shall result in rejection of the tender.

xxv. Participating Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the tender document and Corrigendum if any.

xxvi. Successful tenderer has to complete project within 6 months after allotment of confirmed order and agreement with the university.

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TECHNICAL BID
(COVER-A)

(To be submitted in the envelop marked technical Bid)

1. Address to :

a. Name of the tendering authority	Registrar
b. Address	Raj Rishi Bhartrihari Matsya University, Alwar 301001
c. Telephone	0144-2730321
d. Email ID	
e. Website	www.rrbmuniv.ac.in

1.	Name of Bidder				
2.	Name & Designation of authorized Signatory				
3.	Registered Office Address				
	Telephone			Fax:	
	Mobile			E-mail:	
4.	Rajasthan Office (If any)	Address			
		Phone		Fax	
		Contact Person			
5.	Alwar Office (If any)	Address			
		Phone		Fax:	
		Contact Person			
6.	Year of Establishment				

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7.	Nature of the firm Company	Company			Firm
		Government	Public	Private	Partnership/ proprietary
	Put Tick (✓) mark				
8.	No. of Year providing service				
9.	Is the office owned/ leased or rented.				
10.	Registration No.				
11.	Pan No.				
12.	Whether firm is agreeable to the Terms & Conditions mentioned in the Tender.				
13.	Name of the Nodei officer with his qualification with his mobile Phone No.				
14.	Name of person who will apprise the University about the status of the work with his phone No.				
15.	Sample of each item/name Mention the brand.				
16.	Weight of paper to be used for printing of above stationery.				
17.	Previous Experience (Attached documents)				
18.	Any other details in support of your offer				

Signature of Tenderer with Seal

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IV. Following documents are attached towards the proof of earnest deposited in favour of the Registrar, Raj Rishi Bhartrihari Matsya University, Alwar payable at Alwar .

S. No.	EMD Amount	DD/Banker's Cheque No. With date	Name of the Bank
1.	Earnest Money Rs.1218274/-		
2.	Cost of E- Bid Rs. 10000/-		
3.	Processing fees (user charges) (MD, RISL)	Rs. 2500/-	

V. Annual Turnover during last three years (as stated in the eligibility criteria attach proof):

2020-21	2021-22	2022-23	Total Turnover (In Rs.)

Signature of Tenderer with Seal

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VI. Experience of similar work undertaken during last three years

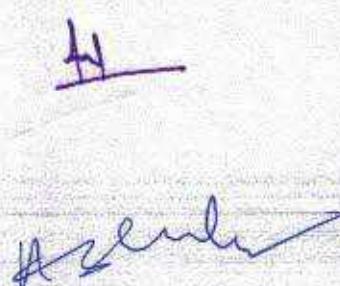
S. No.		Name of Organization	Brief Description of the Work (no. of student and Number of Examination) for Online Work		Value (Amount in Rs.)
1.	2020-21				
2.	2021-22				
3.	2022-23				

Turnover

S.No.	Year	Turnover (Amount in Rs.)	Value (Amount in Rs.)
1	2020-21		
2	2021-22		
3	2022-23		

Attach authorization firm original manufacturer/dealership letter

Signature of Tenderer with Seal



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• Section-4 Submission of Bid

1. All the bid documents duly signed and stamped by the bidder (Every page) needs to be uploaded online on e-tender portal by bidder.
2. Bidder should submit the bid strictly in accordance with the terms & Condition and specifications contained in the bid documents and not to stipulate any deviation or condition. University reserves the right to reject any tender containing deviation to the terms and condition and requirement stipulated in the tender documents.
3. The tender firm name stated in the tender shall be exact legal name of the firm/company/corporations etc. as registered and incorporated. All changes/alterations/corrections in the tender shall be signed with date in full by the person signing the tender. No erasing and/or overwriting are allowed.
4. The tender only needs to be submitted online in an organized and structured manner. No hard copies of the tender documents (except the stamp papers, pen drive containing 3D layouts of Examination and Administrative Building, Tender Fees in the form of Demand Draft and EMD in the form of DD/FD/BG) need to be submitted to the institute through speed post/registered post/courier services/by hand, on or before the last date of receipt of online tender. The documents received after the due date & time will not be considered for further technical evaluation of the tender and will be summarily rejected. RRBMU will not be responsible for delayed /late submission & Postal delays etc. resulting in disqualifications/rejection of any tender.
5. The validity of the tender shall be 90 days from the date of opening of the tender.

• Section-5 Payment Terms

- i) 40% payment will be release after completion of interior work.
- ii) 40% payment will be release after successful delivery of products (Furniture and IT Products)
- iii) 20% payment will release after installation of products and completion of the project.

Signature of Tenderer with Seal

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5. Conditions of Contract and Special Conditions of Contract

5.1. Introduction

#	Clause		Sub-Clauses
5.1.1.	Definitions	5.1.1.1	<p>The following words and expressions shall have the meanings hereby assigned to them:</p> <ul style="list-style-type: none"> i. "RTPP Act" means the Rajasthan Transparency in Public Procurement Act., 2012. ii. "RTPP Rules" means the Rajasthan Transparency in Public Procurement Rules, 2013. iii. "Completion" means the fulfillment of the Goods Supply by the Supplier in accordance with the terms and conditions set forth in the Contract. iv. "Contract" means the contract entered between the Procuring Entity and the successful bidder (Supplier) concerning the subject matter of procurement, together with the Contract Documents referred to therein, including all attachments, appendices, specifications and codes and all documents incorporated by reference therein. v. "Contract Documents" means the documents listed in the Agreement, including any amendments thereto. vi. "Contract Price" means the price payable to the Supplier as specified in the Agreement, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract. vii. "Day" means calendar day. viii. "Delivery" means the transfer of the Goods from the Supplier to the Procuring Entity in accordance with the terms and conditions set forth in the Contract. ix. "CC" mean the Conditions of Contract x. "Goods" includes all articles, material, commodities, electricity, livestock, furniture, fixtures, raw material, spares, instruments, software, machinery, equipment, industrial plant, vehicles, aircraft, ships, railway rolling stock and any other category of goods whether in solid, liquid or gaseous form, purchased or otherwise acquired for the use of a procuring entity as well as services or works incidental to the supply of the goods if the value of services or works or both does not exceed that of the goods themselves; xi. "Procuring Entity" means an entity referred to in Section 3(2) of RTPP Act. xii. "Supplier" means the natural person, private or Government Entity, or a combination of the above, whose Bid to perform the Contract has been accepted

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#	Clause		Sub-Clauses
		xiii.	<p>by the Procuring Entity and is named as such in the Agreement and includes the legal successors or permitted assigns of the Supplier.</p> <p>“The Site” where applicable, means the place of delivery, installation, testing/commissioning of the goods/equipment or machinery or any other place named in the Schedule of Supply.</p>
5.1.2.	Interpretations	5.1.2.1	<p>In the Contract, except where the context requires otherwise:</p> <ol style="list-style-type: none"> words indicating one gender include all genders. words indicating the singular also include the plural and words indicating the plural also include the singular. provisions including the word “agree”, “agreed” or “agreement” require the agreement to be recorded in writing. “written” or “in writing” means hand-written, type-written, printed, or electronically made, and resulting in a permanent record. the word “tender” is synonymous with “bid” and “tenderer” with “bidder” and the words “Bid Document” with “bidding document”. <p>The marginal words and other headings shall not be taken into consideration in the interpretation of these Conditions.</p>

5.2. General

#	Clause		Sub-Clauses
5.2.1.	General Terms	5.2.1.1.	<p>Entire Agreement</p> <p>The Contract constitutes the entire agreement between the Procuring Entity and the Supplier and includes the CC, bidding forms, schedules, appendices, all attachments listed in the agreement</p>
		5.2.1.2.	<p>Amendment</p> <p>No amendment or other variation of the Contract document shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.</p>
		5.2.1.3.	<p>Subject to the order of precedence set forth in the Agreement, all documents forming the Contract (and all</p>




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#	Clause		Sub-Clauses
			parts thereof) are intended to be correlative, complementary, supplementary, and mutually explanatory.
5.2.2.	Code of Integrity	5.2.2.1.	<p>The Supplier is required to comply with the Code of Integrity and its prevailing sanctions policies and procedures as set forth in the Section 11 (Code of Integrity) of RTPP Act and Rule 80(2) (Code of Integrity) of RTPP Rules and its amendments. Further, none of them shall indulge in corrupt, fraudulent, coercive, and collusive practices. For this clause, these practices are defined as below:</p> <ol style="list-style-type: none"> 1. "corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party. 2. "fraudulent practice" means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation. 3. "coercive practice" means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party. 4. "collusive practice" means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party
		5.2.2.2.	The Procuring Entity shall take legal action against the Supplier under Section 11 (3), Section 46 and chapter IV of RTPP Act , if it breaches any provisions of the Code of Integrity or is determined to have engaged directly or through an agent in corrupt, fraudulent, coercive, or collusive practices in competing for or in execution of the Contract.

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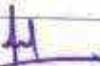
#	Clause		Sub-Clauses
5.2.3.	Language	5.2.3.1.	The Contract as well as all correspondence and documents relating to the Contract exchanged by the Supplier and the Procuring Entity, shall be written in the language specified in the document. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by a self-attested accurate translation of the relevant passages in the language specified in the document, in which case, for purposes of interpretation of the Contract, this translation shall govern.
		5.2.3.2.	The Supplier shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.
5.2.4.	Notices	5.2.4.1.	A notice, consent or other communication under this Bid is only effective if it is in writing (written form or electronic form with proof of receipt), signed by or on behalf of the party giving it and it is received in full and legible form at the addressee's address [or facsimile number]. It is regarded as received at the time and on the day it is actually received on any calendar days.
		5.2.4.2.	For the purposes of this clause, a party's address and facsimile number are those(s) set out below, unless the party has notified a changed address or facsimile number in which case the notice, consent, approval, or other communication must be to that address or number. [PE to insert Supplier name, address, and facsimile number]
			If a party changes address and fails to notify the other party or parties of this change and the new address, delivery of notices to that party at that new address is deemed compliant with the notice obligation under this clause.
5.2.5.	Governing Law	5.2.5.1.	The Contract shall be governed by and interpreted in accordance with the laws of the Central Government/ laws of State Government of Rajasthan.
5.2.6.	Specifications and Standards	5.2.6.1.	Technical Specifications and Drawings i. The Supplier shall ensure that the Goods comply with the technical specifications and other provisions of the Contract. ii. The Goods supplied under this Contract shall conform to the standards mentioned in Schedule of Supply and shall bear such marks. When no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the country of origin of the Goods. In no

#	Clause		Sub-Clauses
			case such standards shall be inferior to the relevant updated BIS or international standards.
		5.2.6.2.	Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Schedule of supply for bidders . During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Procuring Entity and shall be treated in accordance with CC Clause 5.3 (4) [Extension of Time]
	(GF&AR Rule 68)	5.2.6.3.	The supply of articles specified at serial number in Schedule of Supply [To be filled by PE, in case samples are required], shall in addition, conform strictly to the approved samples. The decision of the Procuring Entity whether the articles supplied conform to the specifications and are in accordance with the samples, if any, shall be final and binding on the Supplier.
5.2.7.	Copyright	5.2.7.1.	The copyright in all design, technology, process, drawings, documents, and other materials containing data and information furnished to the Procuring Entity by the supplier or any other third party, shall be with Procuring Entity and Government of Rajasthan.
5.2.8.	Confidential Information	5.2.8.1.	<p>In addition to the requirements of the provisions of Section 49 of RTPP Act and Rule 77 of RTPP Rules regarding Confidentiality, the Procuring Entity and the Supplier shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract.</p> <p>However, in case of electronic data or information, the Procuring Entity may not hold such responsibility for access to data online by any third party.</p>
		5.2.8.2.	The Supplier shall not use such documents, data, and other information received from the Procuring Entity for any purpose other than the design, procurement, or other work and services required for the performance of the Contract.
		5.2.8.3.	The provisions of CC Clause 5.2.8 [Confidential Information] shall survive completion or termination, for whatever reason, of the Contract.



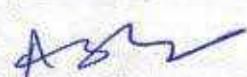

#	Clause		Sub-Clauses
5.2.9.	Packing and Documents	5.2.9.1.	The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit or transport by sea, rail and road or air to their destination, as indicated in the Contract. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the destination of the Goods and the absence of heavy handling facilities at all points in transit.
		5.2.9.2.	The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in the Schedule of Supply, and in any other instructions ordered by the Procuring Entity.
	(GF&AR Rule 25)	5.2.9.3.	In the event of any loss, damage, breakage or leakage or any shortage, the Supplier shall be liable to make good, such loss and shortage found at the checking/inspection of the materials by the consignee <u>within the stipulated period days [to be specified by PEI]</u> , otherwise it shall be dealt as default in supply. No extra cost on such account shall be admissible.
5.2.10.	Insurance	5.2.10.1.	The Goods supplied under the Contract shall be fully insured against theft, destruction, or damage, by fire, flood, under exposure to weather or otherwise including war, rebellion, riot, etc. The insurance charges shall be borne by the Supplier till supply. Insurance policy shall be valid for 30 days beyond receipt of material.
5.2.11.	Transportation	5.2.11.1.	The obligations for transportation of the Goods shall be on <u>Delivered Duty Paid (DDP) basis</u> in accordance with the conditions specified in Schedule of Supply for Bidders .
	GF&AR Rule 68 Form 16 (6)	5.2.11.2.	In case of Supply from within India, the Goods shall be supplied on <u>Delivered Duty Paid (DDP basis)</u> at locations specified in Schedule of Supply. All transportation charges, local taxes, etc. shall be borne by the Supplier.

#	Clause		Sub-Clauses
5.2.12.	Installation, Erection, Training and Commissioning	5.2.12.1.	The obligation of Installation, Erection, Training and Commissioning shall be in accordance with the conditions if specified in Schedule of Supply for Bidders.
5.2.13.	Samples, Inspections and Tests (GF&AR Rule 5)	5.2.13.1.	The Procuring Entity or his authorized representative shall at all reasonable times have access to the Supplier's premises and the power to inspect and examine the materials and workmanship of the goods/ equipment/ machinery <u>prior to/</u> during manufacturing process or afterwards as may be decided.
		5.2.13.2.	The Supplier shall at its own expense and at no cost to the Procuring Entity carry out all such tests, and/ or trials and/or inspections of the Goods as are specified in Schedule of Supply for Bidders .
		5.2.13.3.	The Procuring Entity may require the Supplier to carry out any tests and/or trials and/or inspections not required by the Contract but deemed necessary to verify that the characteristics and performance of the Goods comply with the technical specifications, codes and standards and samples supplied with the Bid under the Contract.
		5.2.13.4.	The Supplier shall provide the Procuring Entity with a report of the results of any such tests and/or trials and/or inspections.
		5.2.13.5.	Supplies when received shall be subject to tests and/or trials and/or inspections to ensure whether they conform to the specifications and with the approved samples and trials, if any. Where necessary or prescribed or practical, tests shall be carried out in Government laboratories, reputed testing house and the supplies will be accepted only when the articles conform to the standard of prescribed specifications because of such tests.
		5.2.13.6.	The Procuring Entity may reject any Goods or any part thereof that are received but fails to pass any tests and/or trials and/or inspections or do not conform to the specifications and sample(s) supplied with the Bid, if any. <u>The Supplier shall replace such rejected Goods or parts thereof within specified time period, at no cost to the Procuring Entity, and shall repeat the tests and/or trials and/or inspections, at no cost to the Procuring Entity, if any.</u> <u>If the supplier fails to replace the goods which does not complies the standards as mentioned in the bid, it shall be treated as default in supply and action can be taken as per provisions of the contract.</u>


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#	Clause		Sub-Clauses
		5.2.13.7.	The rejected articles shall be removed by the Bidder within 15 days of intimation of rejection, after which the Procuring Entity shall not be responsible for any loss, shortage or damage and shall have the right to dispose of such articles as he thinks fit, at the Supplier's risk and on his account. If the rejected supply is collected after 15 days, then the procuring entity shall recover from supplier, ground rent charges @ [PE to specify] of value of goods per day/week/etc. [PE to specify] as ground rent charges from the date of rejection.
		5.2.13.8.	The Supplier agrees that neither the execution of tests and/or trials and/or inspections of the Goods or any part thereof, nor the attendance by the Procuring Entity or its representative, shall release the Supplier from any warranty/guarantee or other obligations under the Contract.
5.2.14.	Change in Laws and Regulations	5.2.14.1.	The document provides for permitting effect of change in Laws and Regulations, then after the dead line for submission of Bids, if any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed by Government of India or the State Government (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date and/or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract. Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with CC Clause 5.4 [Contract Price and Payments] .
5.2.15.	Force Majeure	5.2.15.1.	<ul style="list-style-type: none"> (i) For purposes of this Clause, "Force Majeure" means an event or situation beyond the reasonable control of the Supplier or of the Procuring Entity, as the case maybe, that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of the Procuring Entity in its sovereign capacity, wars or revolutions, acts of the public enemy, civil commotion, sabotage, earthquakes, fires, floods or other adverse weather conditions, explosions, epidemics, quarantine restrictions, freight embargoes, strikes, lockouts, or acts of God. (ii) Force Majeure shall not include (i) any event which is caused by the negligence or intentional action of a Party or such Party's employees, experts, sub-





#	Clause	Sub-Clauses
		<p>consultants/ contractors or agents, nor (ii) any event which a diligent Party could reasonably have been expected to both take into account at the time of the conclusion of this Contract and avoid or overcome in the carrying out of its obligations hereunder.</p> <p>(iii) Force Majeure shall not include insufficiency of funds or failure to make any payment required hereunder.</p>
	5.2.15.2.	The Supplier shall not be liable for forfeiture of its Performance Security, liquidated damages, or termination for default if and to the extent that delays in performance or other failure to perform its obligations under the Contract if it is the result of an event of Force Majeure.
	5.2.15.3.	If a Force Majeure situation arises, the Supplier shall promptly but not later than two weeks, notify the Procuring Entity in writing, with reasonable evidence of such condition and the cause and effects thereof, and shall similarly give written notice of the restoration of normal conditions as soon as possible. Unless otherwise directed by the Procuring Entity in writing, the Supplier shall continue to perform its obligations under the Contract as far as reasonably practical and shall seek all reasonable alternative means at his cost for performance not prevented by the Force Majeure event.
	5.2.15.4.	If the force majeure condition(s) mentioned above be in force for a period of [PE to specify] (say 90) days or more at any time, either party shall have the option to terminate the contract on expiry of [PE to specify] (say 90) days of commencement of such force majeure by giving 14 days' notice to the other party in writing. In case of such termination, no damages shall be claimed by either party against the other, save and except those which had occurred under any other clause of this contract prior to such termination.
	5.2.15.5.	In case due to a Force Majeure event the Procuring Entity is unable to fulfil its contractual commitment and responsibility, the Procuring Entity shall notify the Supplier accordingly and subsequent actions taken on similar lines described in above sub-clauses.
5.2.16. Assignment	5.2.16.1.	Neither the Procuring Entity nor the Supplier shall assign, in whole or in part, their obligations under this Contract, except with prior written consent of the other party with recorded reasons. Such assignment shall not relieve the Supplier or the Procuring Entity of their respective obligations under the Contract.

5.3. Contract Details

#	Clause		Sub-Clauses
5.3.1.	Scope of Supply	5.3.1.1.	The Goods to be supplied shall be as specified in Schedule of Supply for bidders
		5.3.1.2.	Unless otherwise stipulated in the Contract, the Scope of Supply shall include, at the supplier's cost, all such items not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining Delivery and Completion of the Goods as if such items were expressly mentioned in the Contract.
5.3.2.	Procuring Entity's Right to extend the period of Rate Contract	5.3.2.1.	<p>Procuring Entity's Right to Extend the period of Rate Contract as per Rule 29 (2) (i) of RTPP Rules may be for 03 months on same price, terms, and condition if market prices have not fallen during the period for the subject matter of procurement or its constituents, to be procured under the rate contract.</p> <p>As per Rule 29 (2) (a) RTPP Rules, in rate contract NIB an approximate quantity of required goods would be indicated but no minimum quantity is guaranteed.</p>
	Procuring Entity's Right to vary quantity	5.3.2.2.	Procuring Entity's right to vary quantity would be as per Rules 73 (1) and (3) of RTPP Rules . If the Supplier fails to do so, the Procuring Entity shall be free to arrange for the balance supply by limited bidding or otherwise and the extra cost incurred shall be recovered from the Supplier.
5.3.3.	Delivery	5.3.3.1.	<p>Subject to CC Sub-Clause 5.3.4 [Extension of Time], the delivery of the Goods and completion of the contract shall be in accordance with the delivery and completion schedule specified in the Schedule of supply for bidders. The details of documents to be submitted along with supplies are as follows:</p> <ol style="list-style-type: none"> One original and two copies of the bidder's commercial invoice in name of Procuring Entity, indicating but not limited to the Contract number, Goods description, quantity, unit price, and total amount being claimed. Invoices must be signed in original and stamped or sealed with the company stamp/seal. Two copies of the packing list identifying contents of each package. One original of the manufacturer's Warranty Certificate covering all items supplied (Optional; PE to delete if not required) Original and two copies of Internal Test Analysis Report of the Manufacturer for the items offered (Optional; PE to delete if not required)

#	Clause		Sub-Clauses
			<p>v. Original of bidder's Certificate of Origin covering all items supplied. <u>(Optional; PE to delete if not required)</u></p> <p>Any other/additional procurement-specific documents required for delivery/payment purposes showing delivery up to destination.</p>
5.3.4.	Extensions of Time	5.3.4.1.	<ol style="list-style-type: none"> 1. If the supplier requires an extension of time on completion of contractual supply on account of occurrence of any hindrance he shall apply in writing for extension on occurrence of hindrance but not after the stipulated date of completion of supply. 2. The Purchase Officer may extend the delivery period with or without liquidated damages in case they are satisfied that the delay in the supply of goods is on account of hindrances. Reasons shall be recorded. 3. Extension in delivery period: In case of extension in the delivery period with liquidated damages the recovery shall be made on the basis of following percentages of value of stores which the tenderer has failed to supply: - <ol style="list-style-type: none"> a) Delay up to one fourth period of the prescribed delivery period – LD (2.5%) b) Delay exceeding one fourth but not exceeding half of the prescribed delivery period – LD (5%) c) Delay exceeding half but not exceeding three fourth of the prescribed delivery period – LD (7.5%) d) Delay exceeding three fourth of the prescribed delivery period – LD (10%) <p>Note: Fraction of day in reckoning period of delay in supply period shall be eliminated if it is less than a half day. The maximum amount of LD shall be 10%</p>

5.4. Contract Price and Payments

#	Clause		Sub-Clause
5.4.1.	Contract Price	5.4.1.1.	<p>The Contract Price shall be as specified in the Agreement subject to any additions (Statutory Variation in Taxes on higher side) and adjustments (Quantity Tolerance in Supply which could be more or less) thereto, or deductions (Statutory Variation in Taxes on lower side, Liquidated Damages Levied), price variation, if any therefrom, as may be made pursuant to the Contract.</p>
		5.4.1.2.	<p>Price Fall Clause for Rate Contract(s) as per Rule 29 2 (h) of RTPP Rule 2013 –</p> <p>Price fall clause is a price safety mechanism in rate contracts and it provides that if the rate contract holder quotes /</p>

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#	Clause	Sub-Clause	
			reduces its price to render similar Supply, works or services at a price lower than the rate contract price to anyone in the State at any time during the currency of the rate contract, the rate contract price shall be automatically reduced with effect from the date of reducing or quoting lower price, for all delivery of the subject matter of procurement under that rate contract and the rate contract shall be amended accordingly. The firms holding parallel rate contracts shall also be given opportunity to reduce their price by notifying them the reduced price giving them fifteen days' time to intimate their acceptance to the revised price. Similarly, if a parallel rate contract holding firm reduces its price during currency of the rate contract, its reduced price shall be conveyed to other parallel rate contract holding firms and the original rate contract holding firm for corresponding reduction in their prices. If any rate contract holding firm does not agree to the reduced price, further transaction with it, shall not be conducted.
5.4.2.	Terms of Payment	5.4.2.1.	The terms of payment of Contract Price shall be [PE to specify] after receipt and acceptance of the material by the procuring entity
		5.4.2.2.	The Supplier's request for payment shall be made to the Procuring Entity in writing, accompanied by invoices describing, as appropriate, the Goods delivered, and by the documents submitted pursuant to CC Clause 5.3.4 [Extension of Time] and upon fulfillment of all the obligations stipulated in the Contract
		5.4.2.3.	Payments should be made by the Procuring Entity, after submission of an invoice or request for payment by the Supplier, and the Procuring Entity has accepted it as per conditions of contract. All remittance charges shall be borne by the supplier.
		5.4.2.4.	The currency in which payments shall be made to the Supplier under this Contract shall be Indian Rupees only .
		5.4.2.5.	Payment in case of those Goods which need trials or testing as specified in Schedule of Supply, shall be made only when such trials or tests have been carried out and trials or test results received conforming to the prescribed specifications.

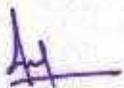
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#	Clause		Sub-Clause
5.4.3.	Taxes and Duties	5.4.3.1.	For Goods supplied, the Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods at site to the Procuring Entity.
5.4.4.	Performance Security	5.4.4.1.	<p>The Supplier shall, within fifteen (15) days or a period specified in the document, of the Notification of Award, sign the Agreement form and provide a Performance Security or, where applicable, a Performance Security Declaration for the due performance of the Contract for the amount specified INR _____ [To be filled by PE].</p> <p>The Performance Security shall be denominated in the Indian Rupees only.</p>
		5.4.4.2.	<p>The Performance Security as per Rule 75 of RTPP Rules shall be deposited in one of the following forms:</p> <ol style="list-style-type: none"> Deposit through eGRAS; or Bank Draft or Banker's Cheque of a Scheduled Bank in India; or National Savings Certificates and any other script/instrument under National Savings Schemes for promotion of small savings issued by a Post Office in Rajasthan, if the same can be pledged under the relevant rules. They shall be accepted at their surrender value at the time of Bid and formally transferred in the name of the Procuring Entity with the approval of Head Postmaster; or Bank guarantee shall be of a scheduled Bank in India in prescribed or other acceptable format or from other Issuer acceptable to the Procuring Entity. The bank guarantee shall be got verified from the issuing bank and confirmee, if any.; or Fixed Deposit Receipt (FDR) of a Scheduled Bank in India. It shall be in the name of the Procuring Entity on account of Bidder and discharged by the Bidder in advance. The Procuring Entity shall ensure before accepting the Fixed Deposit Receipt that the Bidder furnishes an undertaking from the bank to make payment/ premature payment of the Fixed Deposit Receipt on demand to the Procuring Entity without requirement of consent of the Bidder concerned. In the event of forfeiture of the Performance Security, the Fixed Deposit shall be forfeited along with interest earned on such Fixed Deposit as per Rule 75 (3) (e) of RTPP Rules. As per Rule 75 (4) of RTPP Rules, the Performance Security furnished in the form other than submitted through eGRAS shall remain valid for a period of sixty (60) days beyond the date of completion of all contractual obligations of the bidder, including warranty obligations

#	Clause	Sub-Clause
		and maintenance and defect liability period.
	5.4.4.3.	<p>The proceeds of the Performance Security shall be forfeited and shall be payable as compensation to the Procuring Entity on happening of any of the events mentioned below:</p> <ul style="list-style-type: none"> i. Upon occurrence of Supplier default or fails to make complete supply satisfactorily within the time specified the Procuring Entity shall without prejudice to its other rights and remedies, hereunder or in law, be entitled to encash from the Performance security as damages for such Supplier default; or ii. if the Supplier breaches any provision of the Code of Integrity prescribed for Bidders specified in the RTPP Act and Chapter VI of RTPP Rules and this Bidding Document the supplier would be liable for forfeiture of the Performance Security. iii. If in the judgement of the Procuring Entity the bidder with beneficial ownership from countries sharing land border with India as per Rule 13 of RTPP Rules and Government of Rajasthan Notification No. F.2(1)FD/G&T-SPFC/2017 dated 01.01.2021, 15.01.2021 and 30.03.2021, for participation in any public procurement in the State, who can only be allowed after prior registration with the competent authority has not has not complied with the requirement. <p>Notice of reasonable time will be given in case of forfeiture of Performance Security. The decision of the Procuring Entity in this regard shall be final.</p>
	5.4.4.4.	The Performance Security shall be discharged by the Procuring Entity and returned to the Supplier promptly following the date of satisfactory completion of the Supplier's performance obligations under the Contract, including any warranty and/ or maintenance obligations.


#	Clause		Sub-Clause															
5.4.5.	Liquidated Damages	5.4.5.1.	<p>Except as provided under CC Clause 5.2.14 [Force Majeure] and 5.3.4 [Extension of Time] without liquidated damages, if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, the Procuring Entity shall, without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages on the basis of following percentages of value of goods which the Supplier has failed to supply as per Rule 58 of GF&AR (Part II):</p> <table border="1"> <thead> <tr> <th>#</th> <th>Condition</th> <th>LD %</th> </tr> </thead> <tbody> <tr> <td>a.</td> <td>Delay up to one fourth period of the prescribed delivery period</td> <td>2.5 %</td> </tr> <tr> <td>b.</td> <td>Delay exceeding one fourth but not exceeding half of the prescribed delivery period</td> <td>5.0 %</td> </tr> <tr> <td>c.</td> <td>Delay exceeding half but not exceeding three fourth of the prescribed delivery period.</td> <td>7.5 %</td> </tr> <tr> <td>d.</td> <td>Delay exceeding three fourth of the prescribed delivery period.</td> <td>10.0 %</td> </tr> </tbody> </table> <p>Note: Fraction of a day in reckoning period of delay in supplies, successful installation and completion of work shall be eliminated if it is less than half a day.</p>	#	Condition	LD %	a.	Delay up to one fourth period of the prescribed delivery period	2.5 %	b.	Delay exceeding one fourth but not exceeding half of the prescribed delivery period	5.0 %	c.	Delay exceeding half but not exceeding three fourth of the prescribed delivery period.	7.5 %	d.	Delay exceeding three fourth of the prescribed delivery period.	10.0 %
#	Condition	LD %																
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c.	Delay exceeding half but not exceeding three fourth of the prescribed delivery period.	7.5 %																
d.	Delay exceeding three fourth of the prescribed delivery period.	10.0 %																
		5.4.5.2.	<p>Whenever any claim against the Supplier for the payment of a sum of money arises out of or under the contract, the Department shall be entitled to recover such sum by appropriating, in part or whole of the Performance Security and/or Security Deposit, Security Deposit at the time of enlistment of the Supplier if applicable. In the event of the security being insufficient, or if no security has been taken, then the balance or the total sum recoverable, as the case may be, shall be deducted from any sum, then due or which at any time, thereafter, may become due to the Supplier, under this or any other contract with the Governor of Rajasthan. Should this sum be not sufficient to cover the full amount recoverable, the Supplier shall pay to the Department on demand the balance remaining dues. The Department shall, further, have the right to affect such recoveries under Public Demands Recovery Act and/ or as arrears of land revenue as per provisions of the Section 53 of the RTPP Act.</p>															
5.4.6.	Warranty/ Guarantee/ Maintenance	5.4.6.1.	The Supplier warrants that all the Goods are new, unused, or as per specification provided in the contract.															
		5.4.6.2.	Subject to CC Sub-Clause 5.2.6 [Specification and standards], the Supplier further warrants that the Goods															

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#	Clause	Sub-Clause
		shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use
	5.4.6.3.	The warranty/ guarantee shall remain valid for [PE to specify] months or as indicated in Schedule of Supply after supply of the Goods have been accepted at the destination indicated in the Schedule of Supply, or in case of Goods being imported after the placement of Supply Order, for [PE to specify] months after the date of shipment or loading in the country of origin, whichever period concludes earlier.
	5.4.6.4.	The Procuring Entity shall give Notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Procuring Entity shall afford all reasonable opportunity for the Supplier to inspect such defects.
	5.4.6.5.	Upon receipt of such Notice, the Supplier shall, within the period agreed between, expeditiously repair, or replace the defective Goods or parts thereof, at no cost to the Procuring Entity.
	5.4.6.6.	In case of machinery and equipment also, guarantee will be given as mentioned in CC Sub-Clause 5.4.6.3 [warranty/guarantee] and the Supplier shall during the guarantee period replace the parts/ whole, if any, and remove any manufacturing defect if found during the above period to make machinery and equipment operative. The Supplier shall also replace machinery and equipment in case it is found defective which cannot be put to operation due to manufacturing defect, malfunctioning, etc.
	5.4.6.7.	In case of machinery and equipment specified by the Procuring Entity the Supplier shall be responsible for carrying out annual maintenance and repairs on the terms and conditions as indicated in Schedule of Supply or may be agreed at the time of entering the contract. The Supplier shall also be responsible to ensure adequate regular supply of spare parts needed for a specific type of machinery and equipment whether under their annual maintenance and repairs rate contract or otherwise. In case of change of model, Supplier will give sufficient notice to the Procuring Entity. Procurement Entity will have to agree to the firm's request. However, in case supply of new model is agreed to then bidder shall be responsible to ensure adequate regular supply of spare parts needed for new model of the machinery and equipment whether under their annual

#	Clause		Sub-Clause
			maintenance and repairs rate contract or otherwise.
		5.4.6.8.	If having been notified, the Supplier fails to remedy the defect within reasonable period or as agreed between supplier and Procuring Entity; the Procuring Entity may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Procuring Entity may have against the Supplier under the Contract.
5.4.7.	Patent Indemnity	5.4.7.1.	<p>The Supplier shall, subject to the Procuring Entity's compliance with CC Sub-Clause 5.4.7.2 [Patent Indemnity] indemnify and hold harmless the Procuring Entity and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Procuring Entity may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of:</p> <ul style="list-style-type: none"> i. the installation of the Goods by the Supplier or the use of the Goods where the Site is located; and ii. The sale in any country of the products produced by the Goods. <p>Such indemnity shall not cover any use of the Goods or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, neither any infringement resulting from the use of the Goods or any part thereof, or any products produced thereby in association or combination with any other equipment, plant, or materials not supplied by the Supplier, pursuant to the Contract.</p>
		5.4.7.2.	If any proceedings are brought or any claim is made against the Procuring Entity arising out of the matters referred to in CC Sub- Clause 5.4.7.1 [Patent Indemnity] , the Procuring Entity shall promptly give the Supplier a notice thereof, and the Supplier shall at its own expense and in the Procuring Entity's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.
		5.4.7.3.	If the Supplier fails to notify the Procuring Entity within twenty-eight (28) days after receipt of such notice referred to in CC Sub- Clause 5.4.7.2 that it intends to conduct any such proceedings or claim, then the Procuring Entity shall be free to conduct the same on its own behalf and at the

#	Clause		Sub-Clause
			expenses of the Supplier.
5.4.8.	Limitation of Liability	5.4.8.1.	<p>Except in cases of gross negligence or willful misconduct:</p> <p>i. neither party shall be liable to the other party for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Procuring Entity; and the aggregate liability of the Supplier to the Procuring Entity under the Contract shall not be less than the amount of the Contract Price and more than double of it, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Supplier to indemnify the Procuring Entity with respect to patent infringement.</p>

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5.5. Termination

#	Clause		Sub – Clause
5.5.1.	Termination for Default	5.5.1.1.	<p>The Procuring Entity, without prejudice to any other remedy under the provisions of the Act, the Rules, or the Contract for breach of Contract, by Notice of default sent to the Supplier, may terminate the Contract in whole or in part:</p> <ul style="list-style-type: none"> i. If the Supplier fails to deliver any or all the Goods within the period specified in the Contract, or within any extension thereof granted by the Procuring Entity pursuant to CC Clause 5.3.4 [Extension of Time] or ii. If the Supplier fails to perform any other obligation under the Contract which is defined as the fundamental breach of contract. Any party to the contract commits a breach of contract that is so fundamental that it deprives the other party to the contract of substantially the whole of contract's benefits is stated to be the fundamental breach of contract. Therefore, any breach of conditions relating to essence of any contract is termed as fundamental breach of contract. Time assigned for completion of contract and the quality of goods, or any other condition of contract are generally the essence of the contract. iii. If the Supplier, in the judgment of the Procuring Entity has breached any provision of the Code of Integrity, as defined in the Act, the Rules and CC Clause 5.2.2.1[Code of Integrity], in competing for or in executing the Contract. iv. If in the judgement of the Procuring Entity the bidder with beneficial ownership from countries sharing land border with India as per Rule 13 of RTPP Rules and Government of Rajasthan Notification No. F.2(1)FD/G&T-SPFC/2017 dated 01.01.2021, 15.01.2021 and 30.03.2021, for participation in any public procurement in the State, who can only be allowed after prior registration with the competent authority has not complied with the requirement.
		5.5.1.2.	<p>In the event the Procuring Entity terminates the Contract in whole or in part, pursuant to CC Clause 5.5.1.1 [Termination for default by non-supply] above, the Procuring Entity may procure, upon such terms and in such manner as it deems appropriate, the Goods similar to those undelivered or not performed, and the Supplier shall be liable to the Procuring Entity for any additional costs for such similar Goods or Related Services and such additional cost shall be recovered from the dues of the Supplier with the Procuring Entity.</p>

#	Clause		Sub – Clause
5.5.2.	Termination for Insolvency	5.5.2.1.	The Procuring Entity may at any time terminate the Contract by giving Notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Procuring Entity

5.6. Exclusive Jurisdiction

5.6.1.	Jurisdiction of courts	5.6.1.1.	The Courts at Jaipur in Rajasthan (<i>District to be specified</i>) [PE to specify] shall alone have jurisdiction in respect of all claims and matters arising under the consignment or for the supply of goods
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5.7. Any other Specific Condition [To be specified by PE]

5.7.1. To be filled by PE...	5.7.1.1. To be filled by PE...	
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FINANCIAL BID COVER LETTER FORMAT

{To be submitted by the bidder on his letter head}

To,

(Raj Rishi Bharthari Matsya University, Alwar) Alwar

Reference: NIB No.: _____ Dated: _____

Dear Sir,

We, the undersigned bidder, having read & examined in detail, Bidding Documents the receipt of which is hereby duly acknowledged, I/we, the undersigned, offer to supply/ work as mentioned in the Scope of the work , bill of material, Technical specification, Service level standards & in conformity with the said bidding documents for the same.

1. I / We undertake that the prices are in conformity with the specification prescribed. The quote/price is inclusive of all cost likely to be incurred for executing this work. The prices are inclusive of all type of govt. taxes/duties as mentioned in the financial bid (BoQ).
2. I / We undertake, if our bid is accepted, to deliver the goods/items/material/work/services in accordance with the delivery schedule specified in the schedule of Requirements.
3. I / We hereby declare that in case the contract is awarded to us, we shall submit the contract performance security as prescribed in the bidding documents
4. I / We agree to abide by this bid for a period of 90 days after the last date fixed for bid submission and it shall remain binding upon us and may be accepted at any time before the expiry of that period.
5. Until a formal contract is prepared and executed this bid, together with your written acceptance thereof and your notification of award shall constitute a binding contract between us.
6. I / We hereby declare that our bid is made in good faith, without collusion or fraud and the information contained in the bid is true and correct to the best of our knowledge and belief.
7. We understand that you are not bound to accept the lowest or any bid you may receive.
8. We will not sublet the contract if awarded to us.
9. We have not modified/changed etc. any word/line/Para/text mentioned in the bid downloaded from website as mentioned in the bid otherwise we know that our bid shall be cancelled and rejected if submitted bid has deviation of word/line/Para/text from the original bid.
10. No other cost shall be charged from the PE after quoting rates in the bid looking to the items/material/works/services to be rendered.
11. We also hereby declare that in no case the information collected in Parishisht-A shall not go / be published in public domain otherwise it would be treated under the clause of breach of confidentiality and necessary action shall be taken by the PF against us with in act and Procurement rules along with Laws of land also be applicable, if not sufficient.

We agree to all the terms & conditions as mentioned in the bidding document and submit that we have not submitted any deviations in this regard. We have submitted only solution /goods/items/material/services/works based proposal and understand that in case of multiple bids proposed may lead to reject our bid for which we only are the responsible.

Date:

Signature of Authorized Signatory: Name:

Designation:

Signature of Tenderer with Seal

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FORM OF PERFORMANCE SECURITY DECLARATION

ANNEXURE-1

Date: _____ [Insert date(as day, month and year)]
Contract Name and No.: _____ [Insert name and number of
Contract]

To,
(Raj Rishi Bhartrihari Matsya University, Alwar)

We, the undersigned, declare that:

We understand that, according to your conditions, the contract must be supported by a Performance security Declaration as a guarantee to ensure fulfilment of our all performance obligations under the contract for subject matter.

We accept that we will automatically be suspended from being eligible for bidding in any contract with you for the period of time off..... [Raj Rishi Bhartrihari Matsya University, Alwar to indicate here the period of time for which the Raj Rishi Bhartrihari Matsya University, Alwar will declare a Bidder ineligible to be awarded a contract if the performance security Declaration is to be executed] starting on the date that we receive a notification from you, the [Designation of the Procuring Entity] that our performance security declaration is executed, if we are in breach of any of our performance obligation under the conditions of the Contract.

We understand this performance security declaration shall expire after 60 days of completion of our all obligations under the contract including defect liability, warranty / Guarantee, operation, maintenance etc. in accordance with the conditions of the contract.

Signed: _____ [insert signature of person whose name and capacity are shown]
In the capacity of: _____ [insert legal capacity of person signing the performance security declaration]

Name: _____ [insert complete name of person signing the declaration]
Duly authorized to sign the contract for and on behalf of: _____ [insert complete name and address of the Bidder]

Dated on Day of _____ [insert date of signing]
Corporate Seal

Note:
performance security declaration shall only be duly filled in by the Departments of the state Government, Undertakings, Corporations, Autonomous bodies, Registered Societies and Cooperative Societies which are owned or controlled or managed by the state/Government and Government undertakings of the central Government.

Signature of Tenderer with Seal

CERTIFICATE OF CONFORMITY / NO DEVIATION

{To be filled by the bidder}

ANNEXURE-II

TQ Raj RiRaj Rishi Bhartrihari Matsya University, Alwar
Alwar

CERTIFICATE

1. This is to certify that, the specifications of subject matter of bid documents which I/ We have mentioned in the Technical bid and which I/ We shall if I/We am/are awarded with the work, are in conformity with the minimum specifications of the commodity/Goods/Item/Work/Services mentioned in the bidding documents and that there are no deviations of any kind from the required specifications.
2. Also I/We have thoroughly read the bidding documents, RTTP ACT, 2012 and there to Rules, 2013 and amendment(s) issued (available on <http://rajasthan.gov.in>) and online bidding method (Given on <http://eproc.rajasthan.gov.in>) by signing this certificate we hereby submit our token of unconditional acceptance to all the terms & conditions of the bidding documents without any deviations.
3. I/We also certify that the price I/we have quoted is inclusive of all the cost/service factors involved in subject matter of bid documents to meet the desired standards set out in the bidding documents.
4. I/We declare that work/items/services etc. rendered shall be conforming to the specifications mentioned in the bid documents and to the ECI norms/guidelines/circulars.

Thanking You,

Name of the Bidder:-

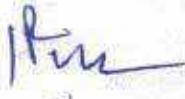
Authorised Signatory:-

Seal of the Organization:-

Date: -

Place:-

Signature of Tenderer with Seal



TECHNICAL BID SUBMISSION SHEET

ANNEXURE-IV

Date:
NIB No.:
Alternative No. If Permitted:

To,
Raj Rishi Bhartrihari Matsya University, Alwar
We the undersigned, declare that:

(a) We have examined and have no reservations to the Bidding document, Including Addenda No.:

(b) We declare that we fulfil the eligibility and qualification criteria in conformity with the bidding document and offer to supply in accordance with the specifications, the delivery schedule and other requirements as specified in Chapter-8 and schedule of supply the following goods and related services as per Chapter-7 scope works.

(c) Our bid shall be valid for a period of 90 days from the date fixed for the bid submission deadline in accordance with the bidding Document and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

(d) If our bid is accepted we commit to obtain a performance security in the amount of percent of the Contract price or shall submit the performance security declaration as the case may be for the due performance of the contract.

(e) We are not participating as bidder in more than one bid for supply of the subject Goods in this bidding process other than alternative offers, if permitted in the bidding Documents.

(f) Our firms its affiliates or subsidiaries, including any subcontractors or suppliers for any part of the Contract have not been debarred by the State Government or the Procuring Entity or a regulatory authority under any applicable law.

(g) We understand that this bid together with your written acceptance thereof included in your notification of award shall constitute a binding contract between us until a formal Contract is prepared and executed.

(h) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive:

(i) We agree to permit Government of Rajasthan or the Procuring entity or their representatives to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by them.

(j) We declare that we have complied with and shall continue to comply with the provisions of the code of integrity including conflict of interest as specified for bidders in the Rajasthan transparency in public procurement Act, 2012 the Rajasthan Transparency in public Procurement Rules, 2013 and this Bidding Documents during the Procurement process and execution of the Contract till completion of all our obligation under the contract.

(k) Other comments, If any: Name: _____

In the Capacity of: _____

Signed: _____

Date: _____

Duly authorised to sign the bid for and on behalf of: _____

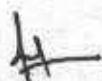
Complete Address: _____

Tel: _____

Fax: _____

E-mail: _____

Signature of Tenderer with Seal



- **Section-4 Submission of Bid**

1. All the bid documents duly signed and stamped by the bidder (Every page) needs to be uploaded online on e-tender portal by bidder.
2. Bidder should submit the bid strictly in accordance with the terms & Condition and specifications contained in the bid documents and not to stipulate any deviation or condition. University reserves the right to reject any tender containing deviation to the terms and condition and requirement stipulated in the tender documents.
3. The tender firm name stated in the tender shall be exact legal name of the firm/company/corporations etc. as registered and incorporated. All changes/alterations/corrections in the tender shall be signed with date in full by the person signing the tender. No erasing and/or overwriting are allowed.
4. The tender only needs to be submitted online in an organized and structured manner. No hard copies of the tender documents (except the stamp papers, pen drive containing 3D layouts of Examination and Administrative Building, Tender Fees in the form of Demand Draft and EMD in the form of DD/FD/BG) need to be submitted to the institute through speed post/registered post/courier services/by hand, on or before the last date of receipt of online tender. The documents received after the due date & time will not be considered for further technical evaluation of the tender and will be summarily rejected. RRBMU will not be responsible for delayed /late submission &Postal delays etc. resulting in disqualifications/rejection of any tender.
5. The validity of the tender shall be 90 days from the date of opening of the tender.

- **Section-5 Payment Terms**

- i) 40% payment will be release after completion of interior work.
- ii) 40% payment will be release after successful delivery of products (Furniture and IT Products)
- iii) 20% payment will release after installation of products and completion of the project.

Signature of Tenderer with Seal

Aslam *W*

Parvez

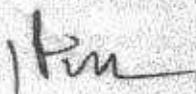
DECLARATION BY THE BIDDER

**(Affidavit on Non-Judicial Stamp Paper of Rs
100/- (Rupees One Hundred Only) duly notarized)**

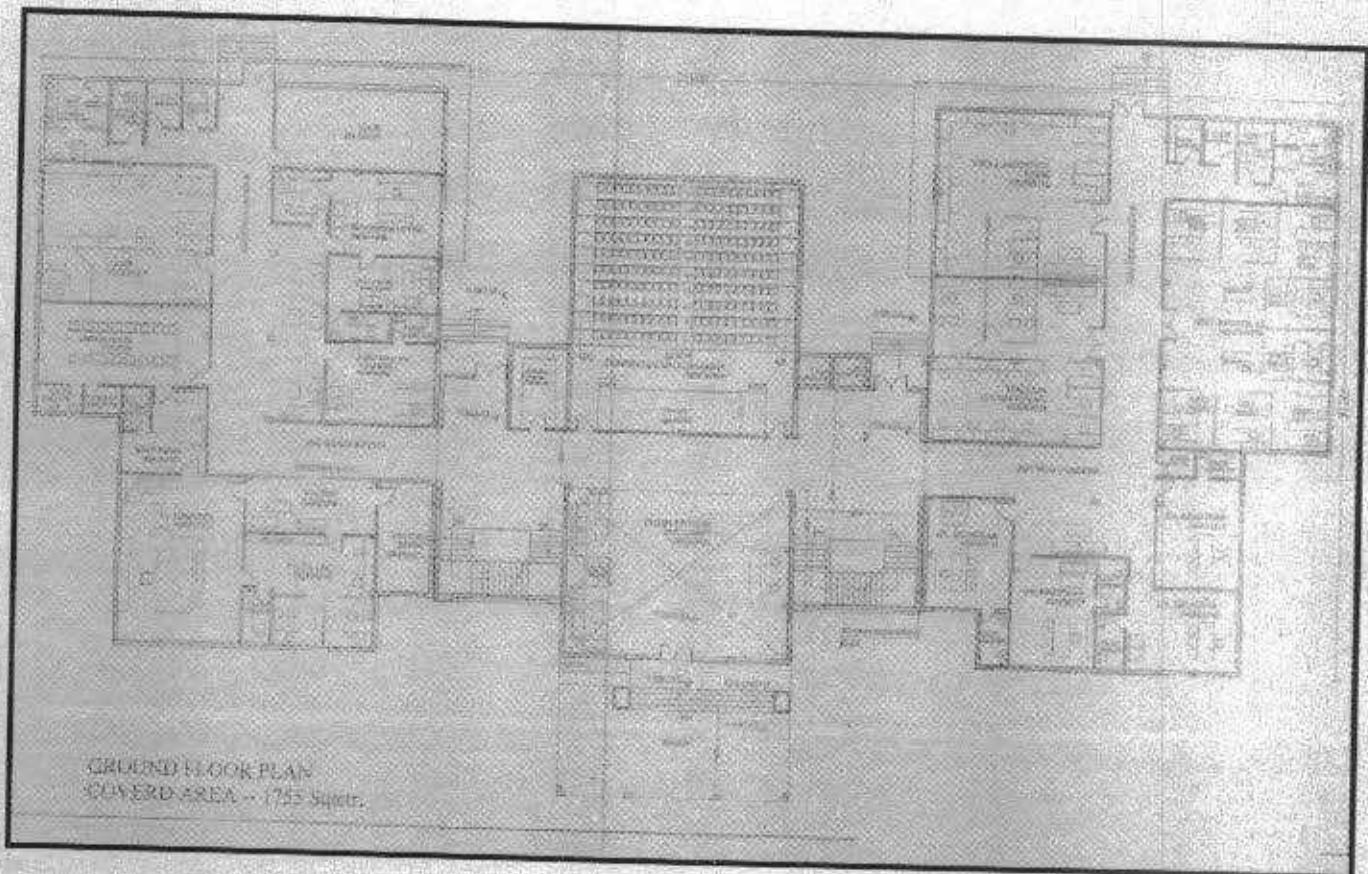
- It is hereby declared that I/We the undersigned, have read and examined all the terms and conditions etc. of the tender document for which I/We have signed and submitted the tender under proper lawful Power of Attorney.
- It is also certified that all the terms and conditions of the tender document are fully acceptable to me/us, I/We will abide by all the terms & conditions mentioned in the tender document and all the documents submitted by us are genuine and not a work of forgery in any way.
- This is also certified that good and services to be provided by us would be of the highest quality and shall be in full conformity with the specification and shall be complete enough to carry out the activities, as specified in the tender document.
- This is also certified that I/We have no objection in signing the contract if the opportunity for the supply of the goods and services against this tender is given to me/agency.
- It is also certified that I/We have not been blacklisted/ De-listed by any Govt., Semi-Govt. Deptt., or any other organization and do not have any litigation in any of the Court(s) against us.
- It is also to confirm that I/We is/has not formed/part of any cartel at any time for processing any contract including the present tender.

Date:

Signature:



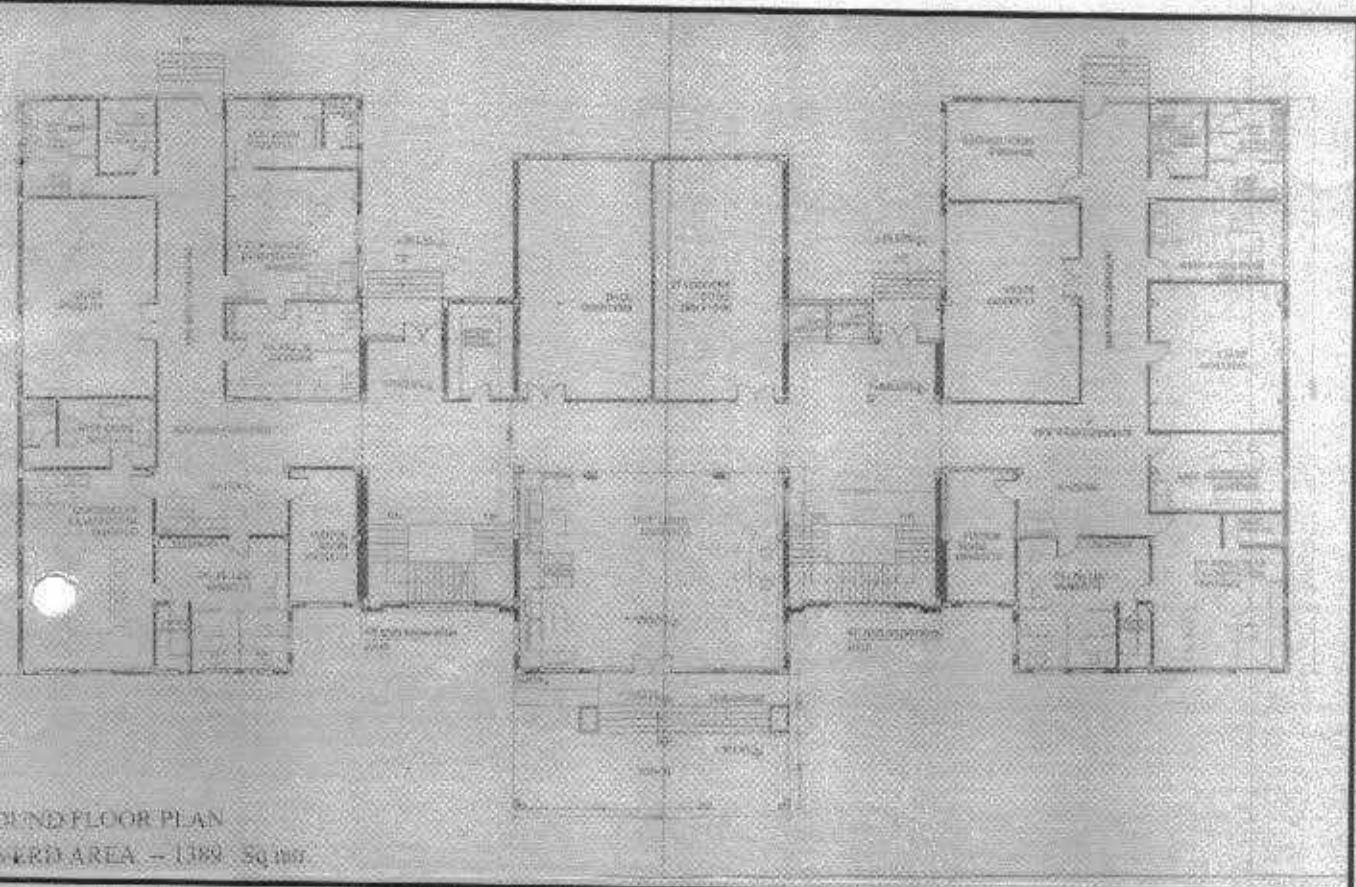
Section-6 Layout Plans



Asha

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2ND FLOOR PLAN

• 1994 年 1 月 13 日

ASR

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Tender Document Fee Detail

Bidder's Name :

Address :

Phone :

Fax :

Email :

(A) Tender Fee :

Bank Demand Draft/Banker's Cheque Detail :

Number: Dated: Bank Name:

For Rs. 10000/-) in favour of Registrar, Raj Rishi Bhartrihari
Matsya University, Alwar

(B) Processing Fee:

Bank Demand Draft/Banker's Cheque Detail :

Number: Dated: Bank Name:

For Rs. 2500/-) in favour of MD, RISL, Jaipur

(C) EMD:

Bank Demand Draft/Banker's Cheque Detail :

Number: Dated: Bank Name:

Rs. 1218274/- in favour of Registrar, Raj Rishi Bhartrihari Matsya
University, Alwar

Name & Signature of Bidder with seal

Signature of Tenderer with Seal



Contract Forms (Agreement Form)

(To be executed on a non-judicial stamp paper)

An agreement made this _____ day of _____ between _____ (hereinafter called "the Supplier"), which expression shall, where the context so admits, be deemed to include his heirs successors, executors and administrators of the one part and the Governor of Rajasthan/

_____ [name of the Procuring Entity if other than a department of the State Government] (hereinafter called "the Procuring Entity") which expression shall, where the context so admits, be deemed to include his successors in office and assigns of the other part.

WHEREAS the Procuring Entity invited Bids for certain Goods and related services, viz., _____ and has accepted a Bid submitted by the Supplier for the supply of those Goods and related services for the sum of _____ [amount in figures and words] (herein after "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract referred to.

1. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - a. The Procuring Entity's Notification to the Supplier of Award of Contract;
 - b. The Bid Submission Sheet and the Price Schedules including negotiated Price, if any, submitted by the Supplier;
 - c. The Conditions of Contract;
 - d. The Schedule of Supply;
 - e. Instructions to Bidders;
 - f. The Notice Inviting Bids;

In the event of any discrepancy or inconsistency within the Contract documents, the documents shall prevail in the order listed above.

2. In consideration of the payments to be made by the Procuring Entity to the Supplier as indicated in this Agreement, the Supplier hereby covenants with the Procuring Entity to provide the and to remedy defects therein in conformity in all respects with the provisions of the Contract.
3. The Procuring Entity hereby covenants to pay the Supplier in consideration of the provision of the Goods and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of the Central and the State Government on the day, month and year first mentioned herein before.

A. S. R.

H.

P. R.
223

Signed by:

(for the Supplier)

Witness 1

Name

Witness 2

Designation

Address

Signed by:

[for the Procuring Entity]

(On behalf of Governor of the State of Rajasthan)

Name _____

Designation

Address

Witness 1

Witness 2







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CERTIFICATE OF CONFORMITY / NO DEVIATION

{To be filled by the bidder}

To,

(Raj Rishi Bhartrihari Matsya University, Alwar)

Alwar

CERTIFICATE

1. This is to certify that, the specifications of subject matter of bid documents which I/ We have mentioned in the Technical bid and which I/ We shall if I/We am/are awarded with the work, are in conformity with the minimum specifications of the commodity/Goods/Item/Work/Services mentioned in the bidding documents and that there are no deviations of any kind from the required specifications.
2. Also I/We have thoroughly read the bidding documents, RTTP ACT, 2012 and there to Rules, 2013 and amendment(s) issued (available on <http://rajasthan.gov.in>) and online bidding method(Given on <http://eproc.rajasthan.gov.in>) by signing this certificate we hereby submit our token of unconditional acceptance to all the terms & conditions of the bidding documents without any deviations.
3. I/We also certify that the price I/we have quoted is inclusive of all the cost/service factors involved in subject matter of bid documents to meet the desired standards set out in the bidding documents.
4. I/We declare that work/items/services etc. rendered shall be conforming to the specifications mentioned in the bid documents and to the ECI norms/guidelines/circulars.

Thanking You,

Name of the Bidder:-

Authorised Signatory:-

Seal of the Organization:-

Date: -

Place:-

Signature of Tenderer with Seal

Al

H. S. S.

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Annexure A: Compliance with the code of Integrity and No Conflict of Interest.

Any person participating in a procurement process shall-

- (a) Not offer any bribe, reward or gift or any material benefit either directly or indirectly in exchange for an unfair advantage in procurement process or to otherwise influence the procurement process;
- (b) Not misrepresent or omit that misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation;
- (c) Not indulge in any collusion, Bid rigging or anti-competitive behavior to impair the transparency, fairness and progress of the procurement process;
- (d) Not misuse any information shared between the procuring Entity and the Bidders with an intent to gain unfair advantage in the procurement process;
- (e) Not indulge in any correction including impairing or harming or threatening to do the same, directly or indirectly, to any party or to its property to influence the procurement process;
- (f) Not obstruct any investigation or audit of a procurement process;
- (g) Disclose conflict of interest, if any; and
- (h) Disclose any previous transgressions with any Entity in India or any other country during the last three years or any debarment by any other procuring entity.

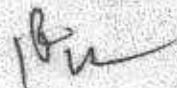
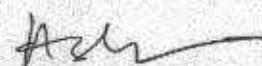
Conflict of Interest:-

The Bidder participating in a bidding process must not have a Conflict of Interest.

A Conflict of Interest is considered to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations.

- i. A Bidder may be considered to be in Conflict of interest with one or more parties in a bidding process if, including but not limited to;
- a. Have controlling partners/shareholders in common; or
- b. Receive or have received any direct or indirect subsidy from any of them; or
- c. Have the same legal representative for purpose of the Bid; or
- d. Have the relationship with each other, directly or through common third parties, that puts them in a position to have access have to information about or influence on the bid of another Bidder, or influence the decision of the procuring Entity regarding the bidding process; or
- e. The bidder participates in more than one bid in a bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which the Bidder is involved. However this does not limit the inclusion of the same subcontractor, not otherwise participating as a Bidder, in more than one Bid; or
- f. The Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specification of the Goods, Works or Service that are the subject of the Bid, or
- g. Bidder or any of its affiliates has been hired (or is proposed to be hired) by the procuring Entity as engineer-in-charge/consultant for the contract.

SIGNATURE OF THE TENDERER WITH FIRM'S RUBBER STAMP



Annexure B: Declaration by the Bidder regarding Qualifications

Declaration by the Bidder

In relation to my/our Bid submitted to for procurement of in response to their Notice Inviting Bids No..... Dated I/We hereby declare under Section 7 of

Rajasthan Transparency in Public Procurement Act, 2012, that:

1. I/We possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entity;
2. I/We have fulfilled my/our obligation to pay such of the taxes payable to the union and the State Government or any local authority as specification in the Bidding Document;
3. I/We have are not insolvent in receivership, bankrupt or being wound up, not have my/our affairs administrated by a court or a judicial officer, not have my/our business activities suspended and not the subject of legal proceeding for any of the foregoing reasons;
4. I/We do not have, and our directors and officers not have, been convicted of any criminal offence related to my/our professional conducted or the making of false statement or misrepresentations as to my/our qualifications to enter into a procurement contract within a period of three years preceding the commencement of this procurement process, or not have been otherwise disqualified pursuant to debarment proceeding;
5. I/We do not have a conflict of interest as specification in the Act, Rules and the bidding Document, which material affects fair competition;

Date :

Signature of Bidder

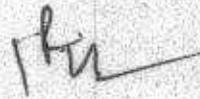
Place :

Name :

Designation :

Address :

SIGNATURE OF THE TENDERER WITH FIRM'S RUBBER STAMP



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Annexure C: Grievance Redressal during Procurement Process

The designation and the address of the first Appellate Authority is Registrar Matsya University, Alwar.

The designation and the address of the Second Appellate Authority is Hon'ble Vice Chancellor, Matsya University, Alwar.

(1) Filing an appeal

If any bidder or prospective bidder is aggrieved that any decision, action or omission of the Procuring Entity is in contravention to the provisions of the act or the rules or the Guidelines issued there under, he may file an appeal to First Appellate Authority, as specified in the Bidding Document within a period of ten days from the date of such decision or action, omission, as the case may be, clearly giving the specific ground or grounds on which he feels aggrieved:

Providing that after the declaration of a Bidder as successful the appeal may be filed only by a Bidder who has participated in procurement proceeding:

Providing further that in case a Procuring Entity evaluates the Technical Bids before the opening of the Financial Bids, an appeal related to the matter of Financial Bids may be filed only by a Bidder whose Technical Bid is found to be acceptable.

(2) The officer to whom an appeal is filed under Para (1) shall deal with the appeal as expeditiously as possible and shall endeavor to dispose it of within thirty days from the date of the appeal.

(3) If the officer designated under Para (1) fails to dispose of the appeal filed within the period specified in Para (2), or if the Bidder or prospective bidder or the Procuring Entity is aggrieved by the order passed by the Procuring Entity, as the case may be, may file a second appeal to Second Appellate Authority specified in the Bidder Document in this behalf within fifteen days from the expiry of the period specified in Para (2) or of the date of receipt of the order passed by the First Appellate Authority, as the case may be.

(4) Appeal not to lie in certain cases

No appeal shall lie against any decision of the Procuring Entity relating to the following matters, namely:-

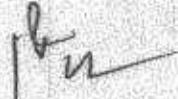
- (a) Determination of need of procurement;
- (b) Provisions limiting participation of Bidders in the Bid process;
- (c) The decision of whether or not to enter into negotiations;
- (d) Cancellation of a procurement process;
- (e) Applicability of the provisions of confidentiality.

(5) Form of Appeal

- (a) An appeal under Para (1) or (3) above shall be in the annexed Form along with as many copies as there are respondents in the appeal.
- (b) Every appeal shall be accompanied by an order appealed against, if any, affidavit verifying the facts stated in the appeal and proof of payment of fee.
- (c) Every appeal may be presented to First Appellate Authority or Second Appellate Authority, as the case may be, in person or through registered post or authorized representative.

(6) Fee for Filing Appeal

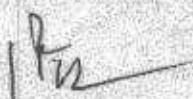
- (a) Fee for first appeal shall be two thousand five hundred and for second appeal shall be rupees ten thousand, which shall be non refundable.
- (b) The fee shall be paid in the form of bank demand draft or banker's cheque of a Scheduled Bank in India payable in the name of Appellate Authority concerned.



(7) Procedure for disposal of appeal

- (a) The First Appellate Authority or Second Appellate Authority, as the case may be upon filing of appeal, shall issue notice accompanied by copy of appeal, affidavit and documents, if any, to the respondents and fix date of hearing.
- (b) On the date of fix hearing, the First Appellate Authority or Second Appellate Authority, as the case may be shall,-
 - Hear all the parties to appeal present before him; and
 - Peruse or inspect documents, relevant records or copies thereof relating to the matter.
- (c) After hearing the parties, perusal or inspection of documents and relevant records or copies thereof relating to the matter, the Appellate Authority concerned shall pass an order in writing and provide the copy of order to the parties to appeal free of cost.
- (d) The order passed under sub-clause (c) above shall also be placed on the State Public Procurement Portal.

**SIGNATURE OF THE TENDERER WITH
FIRM'S RUBBER STAMP**



Annexure D: Additional Conditions of Contract

1. Correction of arithmetical errors

Provided that a Financial Bid is substantially responsive, that Procuring Entity will correct arithmetical errors during evaluation of Financial Bids on the following basis:

- i. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quality, the unit price shall prevail and the total price shall be corrected, unless in the opinion in the Procuring Entity there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
- ii. If there is a error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- iii. If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error,in which case in the amount in figures shall prevail subject to (i) and (ii) above.

If the Bidder that submitted the lowest evaluated Bid does not accepted the correction of errors, its Bid shall be disqualified and its Bid Security shall be forfeited or its Bid Securing Deceleration shall be executed.

2. Procuring Entity's Right to very Quantities.

- (i) At the time of award of contract, the quantity of Goods, works or services originally specified in the Bidding Document may be increased or decreased by a specified percentage, but such increase or decrease shall not exceed twenty percent, of the quantity specified in the Bidding Document. It shall be without any change in the unit price or other terms & conditions of the Bid and the conditions of contract.
- (ii) If the Procuring Entity does not procure any subject matter of procurement or procures less than the quantity specified in the Bidding Document due to change in circumstances, the Bidder shall not be entitled for any claim or compensation except otherwise provided in the Conditions of Contract.
- (iii) In case of procurement of Goods or services, additional quantity may be procured by placing a repeat order on the rates and conditions of the original order. However, the additional quantity shall not be more than 25% of the value of Goods of the original contract and shall be within one month from the date of expiry of last supply. If the Supplier fail to do so, the Procurement Entity shall be free to arrange for the balance supply by limited Bidding or otherwise and the extra cost incurred shall be recovered from the Supplier.

3. Dividing quantities among one than more Bidder at the time of award (In case of procurement of Goods)

As a general rule all the quantities of the subject matter of procurement shall be procured for the Bidder, whose Bid is accepted. However, when it is considered that the quantity of the subject matter of procurement to be procured is very large and it may not be in the capacity of the Bidder, whose Bid is accepted, to deliver the entire quantity or when it is considered that the subject matter of procurement to be procured is of critical and vital nature, in such cases, the quantity may be divided between the Bidder, whose Bid is accepted and the second lowest Bidder or even more Bidders in that order, in a fair, transparent and equitable manner at the rates of the Bidder, whose Bid is accepted.

**SIGNATURE OF THE TENDERER WITH
FIRM'S RUBBER STAMP**

