

SKILLS STRENGTHENING FOR INDUSTRIAL VALUE ENHANCEMENT [STRIVE]

Name of Procuring Entity : ITI Thane (Girls) , Kopari Colony Thane

Annual Procurement Plan for Financial Year : 2022-2023

Date of Approval of Annual Procurement Plan :

Approved By/Name of Approving Authority : IMC of ITI Thane(Girls)

ITI Thane (Girls) Procurement Plan for year 2022-23

Sr no	Procurement Category (Goods ,Consultancy Services)	Category for Goods (Machine/ Equipment/ Hand tools)	Trade Code NO.	Name of Trade Consisting in ISP	Sr No. Mention in Trade Syllabus equipment list	Require QTY As per syllabus	Available QTY	Difficulty	Name/Description of Procurement /Selection	Estimated Cost [INR]	Results Area	Procurement Mode	Applicable Procurement Rules	Use of GEM [Yes/No]	Use of e Procurement [Yes/No]	Procurement Method	Market Approach [National/International]	Proposed Procurement Start Date	Pre-bid Conference Date [If any]	Proposed Procurement End Date	Tentative Contract Award Date	Tentative Contract Duration [Months]	Tentative Completion Date	Specification
[1]	[2]	2A	2B	2C	2D	2E	2F	2G	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]
1	Goods	Handtools	449	FASHION DESIGN AND TECHNOLOGY	23/6 23/16 25/55 26/72	4	3	1	White Magnetic Board with Felt board & accessories :	5000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Size of White Board: 4 X 6 feet. • Installation of wall mounted Ceramic coated steel sheet top surface
2	Goods	Equipment	449	FASHION DESIGN AND TECHNOLOGY	23/15	1	0	1	Computer set with UPS & multimedia projector :	120000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	☐ CPU: 32/64 Bit i3/i5/i7 or latest processor, Speed: 3 GHz or Higher. ☐ RAM: 4 GB DDR-III or Higher, Wi-Fi Enabled. Network Card: Integrated Gigabit Ethernet, with USB Mouse, USB Keyboard and Monitor (Min. 17 Inch. ☐ Licensed Operating System and Antivirus compatible with trade related software ☐ Price starting from 43,000/-
3	Goods	Handtools	449	FASHION DESIGN AND TECHNOLOGY	24/32	10	0	10	Waste Bin :Big / Small	3000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Size/Diameter: 65 litre Rs 499/pc approx.
4	Goods	Equipment	449	FASHION DESIGN AND TECHNOLOGY	25/43	1	0	1	Zig Zag/Multi-Purpose Machine :	25000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Max ZigZag Width: 0 -12mm Machine Class: 83 Stitch Type: 301 (lock Stitch), 304 (Zigzag lock Stitch) Mac Stitch Length : 5mm Should be motor operated Needle Bar Stroke: 34.8mm Needle System : DPx5, 135x7 Approx. 9000/- per piece
5	Goods	Furniture	449	FASHION DESIGN AND TECHNOLOGY	25/57	2	0	2	Mannequins :lady	10000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Should be suitable for display stitched cloths made for female • Material: FRP fiber glass • Straight Hand • Dimensions (Approx.): 1. Height: 2. Shoulder: 3. Chest: 4. Waist: 5. Hip: 1860 mm 540 mm 1040 mm 770 mm 1030 mm
6	Goods	Furniture	449	FASHION DESIGN AND TECHNOLOGY	25/58	2	0	2	Mannequins :Kids	10000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Should be suitable for display stitched cloths made for boy child • Material: FRP fiber glass • Straight Hand • Dimensions (Approx.): 1. Height: 2. Shoulder: 3. Chest: 4. Waist: 5. Hip: 1020 mm 280 mm 580 mm 500 mm 600 m
7	Goods	Furniture	449	FASHION DESIGN AND TECHNOLOGY	25/59	2	0	2	Mannequins :Gents	10000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Should be suitable for display stitched cloths made for mal • Material : FRP fiber glass • Straight Hand • Dimension Dimensions (Approx.): 1. Height: 2. Shoulder : 3. Chest: 4. Waist: 5. Hip: 1860 mm 540 mm 1040 mm 770 mm 1030 mm
8	Goods	Equipment	449	FASHION DESIGN AND TECHNOLOGY	25/60	21	3	18	*Desktop Computer :CPU: 32/64 Bit i3/i5/i7 or latest processor, Speed: 3 GHz or Higher, RAM: 4 GB DDR-III or Higher, Wi-Fi Enabled. Network Card: Integrated Gigabit	1080000	1	Open Tender	state procurement rule	YES	YES	Open Tender	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	☐ CPU: 32/64 Bit i3/i5/i7 or latest processor, Speed: 3 GHz or Higher. ☐ RAM: 4 GB DDR-III or Higher, Wi-Fi Enabled. Network Card: Integrated Gigabit Ethernet, with USB Mouse, USB Keyboard and Monitor (Min. 17 Inch. ☐ Licensed Operating System and Antivirus compatible with trade related software ☐ Price starting from 43,000/-
9	Goods	Equipment	449	FASHION DESIGN AND TECHNOLOGY	25/61	10	0	10	UPS :	50000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	500VA
10	Goods	Equipment	449	FASHION DESIGN AND TECHNOLOGY	25/62	1	0	1	Server system with software :Latest Configuration	160000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Processor: Intel Core i3 1st Generation 2.92 GHz 28.3.2 Memory & Storage: 8GB DDR3 RAM 500GB HDD 28.3.3 20 Inch LED Monitor Premium SLIM & SLEEK CPU Cabinet 28.3.4 Installed Software Details: Desktop PC Comes with Windows 10 Pro (Trial Version), Microsoft Office (Trial Version), Antivirus (Free Version) & Complete Computer Drivers installed and Ready to Use. 28.3.5 Ports & CD drive: 1 VGA Rear: 6 x USB 2.0 Ports Front: 2 x USB 2.0 Ports Without DVD-drive LAN Port
11	Goods	Equipment	449	FASHION DESIGN AND TECHNOLOGY	26/64	2	0	2	Designing Software Coral Draw :Latest Version	40000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Application Usage/Application Computer Minimum Ram 4 GB Operating Systems Any Price Range 55000 Installation Provided 55 yes
12	Goods	Equipment	449	FASHION DESIGN AND TECHNOLOGY	26/66	1	0	1	Laser Printer color :A4	23000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Colour Paper Size A4 Display size 16 characters x 1 lines LCD Display Memory Capacity 64MB Dimension 410 (W) X 465 (D) X 240 (H) mm Price 15000 Weight 17.4kg Approx
13	Goods	Equipment	449	FASHION DESIGN AND TECHNOLOGY	26/67	1	0	1	Colored laser Printer :A3	30000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Colour Paper Size A3 Price 80000
14	Goods	Equipment	449	FASHION DESIGN AND TECHNOLOGY	26/68	1	0	1	Scanner :	6000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Type Flatbed Light source 3-color (RGB) LED Optical resolution 2400 x 4800dpi ¹ electable resolution 25 - 19200dpi
15	Goods	Equipment	449	FASHION DESIGN AND TECHNOLOGY	26/77	21	0	21	Modular Workstation with chair :	315000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Colour Black,Red,Blue Back Style High Back Item Dimensions LxWxH 45.7 x 45.7 x 86.4 Centimeters Frame Material Polypropylene Weight Recommendation 90 Kilograms
16	Goods	Equipment	450	FASHION DESIGN AND TECHNOLOGY	26/78	1	0	1	LCD Projector :	60000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Native Resolution WUXGA (1920 X 1200) Brightness 5000 – 6000 Lumens Light Source – Laser Mounting Type : Tabletop Mount Wattage : 260 Watts Features Lens Shift 3,000,000:1 contrast ratio 92% Rec.709 color coverage Projection Screen, 120-Inch, 6ft.Height x 8ft.Width, UltraHD, 3D Active, 4k Technology Control Type : Remote Control IPSX dustproof mechanism reducing maintenance cost
17	Goods	Equipment	449	FASHION DESIGN AND TECHNOLOGY	26/79	1	0	1	Vacuum Cleaner :	9000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	• Special Feature Portable, Lightweight, Bag, Compact • Colour any • Power Source Electric • Voltage 230 Volts • Item Dimensions LxWxH 30 x 21 x 18.5 Centimeters • Capacity 1.5 litres
18	Goods	Handtools	554	SEWING TECHNOLOGY	27/6	21	0	21	French Curve : Set of three	420	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	☐ Set of 3 ☐ Material: Transparent plastic. ☐ Current Price: 210/- to 250/- per piec
19	Goods	Handtools	554	SEWING TECHNOLOGY	27/7	21	0	21	Thread Cutter : 24"	630	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Should have sharp blades to cut edges. ☐ Should have full hand grasp hold enables for firmer grip on the cutter. ☐ Should be suitable to cut sharp edges and sewing threads. ☐ Should have super-sharp stainless steel blades, metal body with corrosion resistant enamel finish. ☐ Current Price: 70/- to 100/- per piece

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20	Goods	Handtools	554	SEWING TECHNOLOGY	27/8	21	0	21	Scale plastic :	630	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Length:- 12 inches <input type="checkbox"/> Material:- Plastic <input type="checkbox"/> Smooth tapered edges that lie flat on the surface to give sharp lines. <input type="checkbox"/> Round edges that do not chip. <input type="checkbox"/> Clear and distinctly visible markings. <input type="checkbox"/> Made with transparent body. <input type="checkbox"/> Current Price: 15/- to 20/- per piece
21	Goods	Handtools	554	SEWING TECHNOLOGY	27/9	21	17	4	Scissors : 25 cm	1000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Material: Tempered Scissor <input type="checkbox"/> Should have Brass Handle <input type="checkbox"/> Should be suitable for left hand use <input type="checkbox"/> Should be suitable for Dress Making Purpose <input type="checkbox"/> Size: 10 inches <input type="checkbox"/> Should be able to cut fabric <input type="checkbox"/> Current Price: 150/- to 200/- per piece
22	Goods	Handtools	554	SEWING TECHNOLOGY	27/12	21	0	21	Garment Hangers :	4200	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Should have high quality and stylish chrome finish tubes with smooth sliding of the extended arms. <input type="checkbox"/> Material:- Stainless Steel <input type="checkbox"/> Should have wheels for easy mobility <input type="checkbox"/> Size: 1000 X 1600 X 480 mm (+/- 20 mm) <input type="checkbox"/> Should have extended arms to hang more clothes. <input type="checkbox"/> Current Price: 2000/- to 2500/- per piece
23	Goods	Handtools	554	SEWING TECHNOLOGY	27/15	5	0	5	Pressing Table :	5000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Material:- Powder coated iron <input type="checkbox"/> Size :-1200mm x 750mm x 800mm <input type="checkbox"/> Approximate Price:- 20500/- Per
24	Goods	Handtools	554	SEWING TECHNOLOGY	27/17	5	0	5	Rubber mat : Size as per requirement	3000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	material ruber rectangular medium pile medium size
25	Goods	Handtools	554	SEWING TECHNOLOGY	27/19	10	0	10	Waste Bin Big / Small :	3000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Size/Diameter: 65 litre Rs 499/pc approx.
26	Goods	Handtools	554	SEWING TECHNOLOGY	27/22	4	0	4	Pattern Hanging Stand :	3600	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	<input type="checkbox"/> Should have high quality and stylish chrome finish tubes with smooth sliding of the extended arms. <input type="checkbox"/> Material:- Stainless Steel <input type="checkbox"/> Should have wheels for easy mobility <input type="checkbox"/> Size 1000 X 1600 X 480 mm (+/- 20 mm) <input type="checkbox"/> Should have extended arms to hang more patterns. <input type="checkbox"/> Current Price: 2000/- to 2500/- per piece
27	Goods	Equipment	554	SEWING TECHNOLOGY	28/26	5	4	1	Electric Automatic steam press :	1000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Material:- ISI Certified <input type="checkbox"/> Corrosion Resistance <input type="checkbox"/> Quick heating <input type="checkbox"/> Low power consumption <input type="checkbox"/> Automatic On /Off <input type="checkbox"/> Approximate Price : 800/- to 1500/- per piece
28	Goods	Equipment	554	SEWING TECHNOLOGY	28/27	20	0	5	Sewing Machine - : Single Needle Lock stitch Industrial model	150000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Open Tender	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Single needle lock stitch industrial model. <input type="checkbox"/> The side cutter cuts the material end while sewing. <input type="checkbox"/> Should be Suitable for plain stitching and hemstitching of collars and flaps. <input type="checkbox"/> Ideal for sewing collars and flaps, and also for plain stitching of hems. <input type="checkbox"/> Should be able to change mode to normal sewing at a single touch.
29	Goods	Equipment	554	SEWING TECHNOLOGY	28/34	1	0	1	Feed off the arm Double Needle :	48000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Hook: Vertical Axis Regular Hook <input type="checkbox"/> Lubrication: Semi-dry With Minute-quantity Lubrication On Hook With A Tank System <input type="checkbox"/> Thread Winder: Built-in <input type="checkbox"/> Presser Foot Lift: 13mm By Knee, 7mm By Hand <input type="checkbox"/> Needle System: Dpx5 <input type="checkbox"/> Prize:- 25,000 to 28,000 15 P a g e 27.Button Sewing Machin
30	Goods	Handtools	554	SEWING TECHNOLOGY	28/45	1	0	1	Calculator Desk Type :	100	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Current Price: Approximate 200/- to 300/-
31	Goods	Equipment	554	SEWING TECHNOLOGY	29/51	1	0	1	Computer : CPU: 32/64 Bit i3/i5/i7 or latest processor. Speed: 3 GHz or Higher. RAM:- 4 GB DDR-III or Higher. Wi-Fi Enabled. Network	60000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	<input type="checkbox"/> CPU: 32/64 Bit i3/i5/i7 or latest processor. Speed: 3 GHz or Higher. <input type="checkbox"/> RAM:-4 GB DDR-III or Higher, Wi-Fi Enabled. Network Card: Integrated Gigabit Ethernet, with USB Mouse, USB Keyboard and Monitor (Min. 17 inch. <input type="checkbox"/> Licensed Operating System and Antivirus compatible with trade related software <input type="checkbox"/> Price starting from 43,000/-
32	Goods	Equipment	554	SEWING TECHNOLOGY	29/52	1	0	1	UPS :	5000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	500VA
33	Goods	Equipment	554	SEWING TECHNOLOGY	29/53	1	0	1	Multimedia Projector :	70000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Native Resolution WUXGA (1920 X 1200) Brightness 5000 – 6000 Lumens Light Source – Laser Mounting Type : Tabletop Mount Wattage : 260 Watts Features Lens Shift 3,000,000:1 contrast ratio 92% Rec.709 color coverage Projection Screen, 120-Inch, 6ft Height x 8ft Width, UltraHD, 3D Active, 4K Technology Control Type : Remote Control IP5X dustproof mechanism reducing maintenance cost
34	Goods	Equipment	553	SECRETTERIAL PRACTICE (English)	24/2	1	0	1	Document Printer : A3 Size	20000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Printer Type- Laser, Functionality- All-In-One (Print, Scan, Copy); Printer Output- Mono (Black) Connectivity- Usb 2.0, Wi-Fi, Canon Print Business, Canon Print Service, Google Cloud Print, Apple Air Print, Mo Pria; Display Panel- 6.9cm B w Lcd Compatibility:(32 / 64bit) Windows 10, 8.1, 8, 7, Vista, Windows Server 2012 R2 (64bit), Windows Server 2012(64bit), Windows Server 2008 R2(64bit), Windows Server 2008, Windows Server 2003 R2, Windows Server 2003, Mac Os X(4) 10.6.8-, Linux(3) Pages Per Minute -Up To 23ppm (A4) ; F pot- 6.0s ;Print Language- Utril Lt; Device Memory- 512mb Ideal Usage - Office; Monthly Duty Cycle- 15000 Pages Page Size Supported-A4, B5, A5, Legal, Letter, Statement, Executive, Government Letter, Government Legal, Foolscap, Indian Legal Custom (76.2 X 210mm To Maximum 216 X 356mm); Print Resolution - 600 X 600dpi Compatible Cartridge- Cartridge 337 ; Page Yield-2400 Pages. As Per Iso Standards

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35	Goods	Equipment	553	SECRETERIAL PRACTICE (English)	24/3	25	6	8	Computer : CPU: 32/64 Bit i3/i5/i7 or latest processor, Speed: 3 GHz or Higher, RAM-4 GB DDR-III or Higher, Wi-Fi Enabled, Network Card: Integrated Gigabit Ethernet, with USB Mouse, USB Keyboard and Monitor (Min. 17 Inch.) Licensed Operating System and Antivirus compatible with trade related software	480000	1	Open Tender	state procurement rule	YES	YES	Open Tender	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Cpu 32/64 Bit,i3/i5/i7 Or Latest Processor Speed 3ghz Or Higher, Ram 4 Gb, D dr - Ii Or Higher ,Wi-Fi Enabled Network Card ,Integrated Gigabit, Ethernet , With Usb Mouse, Ueb Keyboard And Monitor,(Min 17 Inch) Licensed Operating System And Antivirus Compatible With Trade Related Software. i3 Computer Processor: Intel Core i3 1st Generation 2.92 Ghz Memory & Storage: 8gb Ddr3 Ram 500gb Hdd Min. 17 Inch Led Monitor Premium Slim & Sleek Cpu Cabinet Installed Software Details: Desktop Pc Comes With Windows 10 Pro (Genuine), Microsoft Office (Genuine), Antivirus (1 Year Subscription) & Complete Computer Drivers Installed And Ready To Use. Ports & Cd Drive: 1 Vga Rear: 6 X Usb 2.0 Ports Front: 2 X Usb 2.0 Ports Without Dvd-Drive Lan Port Or i5 Computer Processor: Intel Core i5 1st Generation 3.20 Ghz Memory & Storage:8gb Ddr3 Ram 500gb Hdd Min. 17 Inch Led Monitor Premium Slim & Sleek Cpu Cabinet Windows 10 Pro (Genuine), Microsoft Office (Genuine), Antivirus (1 Year Subscription) & Complete Computer Drivers Installed And Ready To Use. Ports & Cd Drive: 1 Vga Rear: 6 X Usb 2.0 Ports Front: 2 X Usb 2.0 Ports Without Dvd-Drive Lan Port. Or i7 Computer Intel Core i7-3770s Processor, Quad-Core, 3.10ghz Min. 17 Inch Led Monitor Premium Slim & Sleek Cpu Cabinet 16gb Ddr3 Ram With Nvidia Geforce Gt710.2 Gb Gddr3 Graphics 1 Storage- 120 Gb Ssd
36	Goods	Equipment	553	SECRETERIAL PRACTICE (English)	24/10	25	0	25	UPS :	75000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Input Connection Dual Input, Hardwired 14.1 Nominal Output Voltage 220/230/240 Vac Single Phase 14.2 Output Voltage Regulation ±2% Static; ±5% Dynamic At 100% Load Change, <1 Ms Response Time 14.3 Overload Capacity 150% For 5 Sec / 125% For 1 Min (Online), 1000% For 5 Msec (Bypass) 14.4 General specifications 5 Kva Inverter With 4 Batteries Of 12 Volts/220 Ah
37	Goods	Equipment	553	SECRETERIAL PRACTICE (English)	24/11	1	0	1	Fax Machine : Latest Model	9000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Print Printing method Monochrome laser Print speed(A4/Letter) 18/19ppm Print Resolution Upto600x600dpi 1200iEquivalent(X600dpi)
38	Goods	Equipment	553	SECRETERIAL PRACTICE (English)	24/13	2	0	2	Air Conditioners :	80000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Technical specification: Split airconditioner1.5tr Specifications: Sr. No. Parameter Tender Specification 1. Cooling capacity 5.2 Kw(1.5tr)
39	Goods	Equipment	553	SECRETERIAL PRACTICE (English)	24/16	1	0	1	LED TV : 36 Inch	35000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Resolution: Hd Ready (1366 X 768) Refresh Rate: 60 Hertz 178 Degrees Viewing Angle Connectivity: 2 Hdmi Ports To Connect Set Top Box, Blu Ray Players, Gaming Console 2 Usb Port To Connect Hard Drives And Other Usb Devices Smart Tv Features: Android O (Certified By Google) Dual Core Mali 470 Graphics Processor Sound Output: 16 Watts Output 2 Channel Speakers Display : A+ Grade Hd Ready Panel Hdr 10 Ipq Engine Micro Dimming Warranty Information : 1 Year Standard Manufacturer Warranty By Tci From The Date Of Purchase Additional Information : Free Standard Wall Mount Provided At The Time Of Installation Easy Returns: This Product Is Eligible For Replacement Within 10 Days Of Delivery In Case Of Any Product Defects, Damage Or Features Not Matching The Description Provided
40	Goods	Equipment	481	INTERIOR DESIGN & DECORATION	25/1426/32	4	2	2	Air conditioner (split unit) for theory and practical room	80000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Multi Fold Evaporator Enhance the cooling of your AC like never before with this smart Multi Fold Evaporator that pushes the heat off indoors. It also makes the unit more compact in size. AC Operations ISEER Value 3.54 Approx. Room Size Upto 110 sq.ft. Condenser Coil Copper Tonnage 1 Ton Auto Air Swing Yes Auto Clean Function No Hot & Cold No Mosquito Repellent No Humidifier Yes Split AC Operations DC Inverter Technology Yes Air Direction 2-Way Filter Types Clean Air Filter Max. Air Circulation 370.8 CFM Refrigerant R-32 Noise level 54 dB Dust Filter Yes Stabilizer Free Operation Yes Air Purifier N
41	Goods	Equipment	481	INTERIOR DESIGN & DECORATION	25/19	24	4	20	Desktop Computer	1200000	1	Open Tender	state procurement rule	YES	YES	Open Tender	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	CPU: 32/64 Bit i3/i5/i7 or latest processor, Speed: 3 GHz or Higher. RAM:-4 GB DDR-III or Higher, Wi-Fi Enabled, Network Card: Integrated Gigabit Ethernet, with USB Mouse, USB Keyboard and Monitor (Min. 17 Inch.) Licensed Operating System and Antivirus compatible with trade related software.
42	Goods	Equipment	481	INTERIOR DESIGN & DECORATION	26/20	2	0	2	Laptop	120000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	with latest configuration pre-loaded with operating system
43	Goods	Equipment	481	INTERIOR DESIGN & DECORATION	26/25	1	0	1	A3 size Colored Laser Jet, duplex, Scanner cum printer (multifunctional)	25000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Print Technology -Laser Function Type - all in one Scan Speed - Letter: Upto 30 ppm (B&W), Upto 30 ppm (Color) Scan Resolution- Hardware & Optical: Upto 600x600 dpi Enhanced scanning resolution: Upto 4800x4800 dpi Paper Output - Upto 250 Sheets Memory- 128 MB Size- Scan: 297x432 mm Scanner Type- D-CIS Display Type- 4-Line LCD Voltage- 220-240 V AC Operating System - Windows: XP/Vista/7/8/8.1/10 Print Resolution- Normal: Upto 600x600 dpiBest: Optical: 600x600 dpi, Optical: 1200x1200 dpi Dimensions- 560x540x413 mm Functions- Print, Scan & Copy Weight- 25.4 kg
44	Goods	Equipment	481	INTERIOR DESIGN & DECORATION	26/26	24	0	24	UPS online	120000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Online UPS 3KVA 72V Pure Sine wavewithout in-Built Batteries Item Dimensions LxWxH 43 x 19 x 32 Centimeters Voltage 230 Volts Battery Enclosure Type External Power Capacity (VA) 3000 VA Battery Cell Composition Lead Acid

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45	Goods	Equipment	481	INTERIOR DESIGN & DECORATION	26/40	1	0	1	LED Projector latest model with white screen	65000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Native Resolution WUXGA (1920 X 1200) Brightness 5000 – 6000 Lumens Light Source – Laser Mounting Type : Tabletop Mount Wattage : 260 Watts Features Lens Shift 3,000,000:1 contrast ratio 92% Rec.709 color coverage Projection Screen, 120-Inch, 6ft.Height x 8ft.Width, UltraHD, 3D Active, 4k Technology Control Type : Remote Control IP5X dustproof mechanism reducing maintenance cost
46	Goods	Equipment	546	ELECTRONICS MECHANIC	54/39	8	0	8	Dual DC regulated power supply : 30-0-30 V, 2 Amps	120000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	2. Type: Variable Dual Channel + One Channel Fixed Bench Type 3. Output Voltage: 0 - 32 V (CH1 & CH2), 5V (CH3) 4. Output Current: 0 - 2A (CH1 & CH2), 2A (CH3) 5. Load Regulation 6. Voltage: $\pm 0.01\%$ + 3mV (CH1 & CH2), $\pm 3\%$ + 5mV (CH3) 7. Current: $\pm 0.2\%$ + 3mA (CH1 & CH2) Line Regulation 8. Voltage: $\pm 0.01\%$ + 3mV (CH1 & CH2), $\pm 3\%$ + 5mV (CH3) 9. Current: $\pm 0.1\%$ + 5mA (CH1 & CH2) 10. Ripple & Noise: 1mVrms (CH1 & CH2), 2mVrms (CH3), 3mAmps 11. Display Accuracy: $\pm 1\%$ rdg + 2digits 12. Reliability (MTBF): ≥ 2000 Hrs 13. Insulation: 200V (Maximum voltage to earth) Case: Output terminal - ≤ 14 , ± 30 M Ω (500Vdc) AC Cable: $\leq \pm 1.14$, 30M Ω (500Vdc) 15. Overload Protection: Required 16. Polarity Inversion Protection: Required 17. Power Button: Required 18. Indication light for constant current & Voltage: Required 19. Display panel for both Voltage & Current: Required 20. Overload Indication: Required 21. Certification: CE Compliance 22. Power: 230V AC, 50Hz 23. Product Size: 260 X 176 X 317mm ($\pm 10\%$)
47	Goods	Equipment	546	ELECTRONICS MECHANIC	54/40	4	2	2	DC Regulated Variable Programmable DC Power Supply : 0-30V/3A	30000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	1. Output voltage: 0 to 30 Volt 2. Output Current: 0-3A 3. Load effect: CVs1 \times 10-4+2mV, CCs2 \times 10-4+3mA 4. Ripple and Noise: ≤ 0.3 mVrms 5. Output Regulation Resolution: CV: 100mV(Typical), CC: 10mA (Typical) 6. Display Accuracy: 4 digit $\leq \pm(0.1\% + 5)$, 3 digit $\leq \pm(0.4\% + 3)$ 7. Reliability (MTBF): ≥ 2000 Hours 8. Display: LED should display the voltage and current values 9. Power Input Voltage: 115VAC/ 230VAC (Optional) 10. Frequency: 50Hz/ 60Hz 11. Product Size (W X H X D): 105mm X 160 mm X 240mm ($\pm 10\%$) 12. Should be supplied with Power Cord
48	Goods	Equipment	546	ELECTRONICS MECHANIC	54/44	2	0	2	Battery Charger : 0 - 6 - 9 - 12 - 24 - 48 V, 30 Amp	30000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	SPECIFICATION FOR ELECTRICAL AND ELECTRONICS TOOLS AND EQUIPMENTS GROUP ITEMS Version 3, 2018-19 Sr.No.366, Page No-42/148
49	Goods	Equipment	546	ELECTRONICS MECHANIC	54/45	8	2	6	Analog multimeter :	1800	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	SPECIFICATION FOR ELECTRICAL AND ELECTRONICS TOOLS AND EQUIPMENTS GROUP ITEMS Version 3, 2018-19 Sr.No.64 & Page No-74/148
50	Goods	Equipment	546	ELECTRONICS MECHANIC	54/46	4	1	3	Clamp meter : 0 - 10 A	9000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	SPECIFICATION FOR ELECTRICAL AND ELECTRONICS TOOLS AND EQUIPMENTS GROUP ITEMS Version 3, 2018-19 Sr.No-78 & Page No-88/148
51	Goods	Equipment	546	ELECTRONICS MECHANIC	54/48	4	2	2	Dimmer starter : 3 Amps	50000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	1. Basic Indicative Diagram. 2. Single Phase variable out puts. 3. Input: 240V, Output : 0-270V 4. Capacity: 3 Amps 5. Should be wound with electrolytic grade Class F insulated super enamelled copper wire 6. Should be fitted with High grade - Low Loss CRGO 7. Should be fully covered with sheet steel enclosure powder coated 8. Should have Knob showing 0 to 100% and Terminal at Top 9. Class F insulated, Double Vacuum impregnated with Class H Varnish CE marked 10. Mains Cords 3 mtrs. 11. Power coating cylindrical metal body. 12. Test point out put BNC Connectors Red & Black
52	Goods	Equipment	546	ELECTRONICS MECHANIC	55/50	8	0	8	Analog Component Trainer : Breadboard for Circuit design with necessary DC /AC power supply: Sine, Square, Triangle Modulating Signal Generator and Simulation Software	120000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Flexibility of making circuit connections. Online learning material for step by step procedure to perform the experiment and other details related to theory and experiments. Trainer should be RoHS compliant Trainer should be compact, lightweight and housing should be made of ABS material. DC Power Supplies: + 5V, 1 A (Fixed), + 12V, 500 mA (Fixed), -12V, 500 mA (Fixed), + 12V, 500 mA (Variable), -12V, 500 mA (Variable) AC Supply: 9V-0V-9V, 500mA Breadboard: Breadboard for making various circuits and testing them. External components/IC can be fitted conveniently. Function generator: Operating modes Sine, Square and Triangular. Frequency range 1 Hz to 100 KHz. Volt/Current/Frequency Measurement: Voltage Range +12V to -12V DC, Current Range 0 to 500mA DC, Frequency Range DC to 100KHz (All with respect to Ground) Display: LCD Computer Interface: Acquisition from two Analog input channels (Max. input 1 Volt, Frequency 300Hz to 3.4kHz) Continuity Tester: For testing the continuity. Should provide with beeper sound. Power Supply: 110-220 V, 50Hz. Ready to use experiment board should be fitted in place of bread board to perform following experiments on Zener Voltage Regulator board: 17.15.1 Study of Zener diode as a voltage regulator, when input voltage Vin is fixed while Load resistance RL is variable 17.15.2 Study of Zener diode as a voltage regulator, when input voltage Vin is variable while Load resistance RL is fixed. The trainer should include online single user Classroom / laboratory teaching, learning and simulation software module on Analog Electronic with following key features: 17.16.1 The content should be designed by using platforms like Visual Basic, Dot Net, Flash etc. and should be useful to understand the basic concepts of Analog

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53	Goods	Equipment	546	ELECTRONICS MECHANIC	55/51	4	0	4	Milli Ammeter (AC) : 0 – 200 mA	4000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	2.Range: Moving Coil. 0 - 200 mA. Analog 3.Type: Moving Coil DC - Analog 4.Input: 200 mA. 5.Accuracy: Class 1.5 6.Should have linear scale 7.Should be easily replaceable glass and bezel 8.Scale should have interchangeability 9.Should be easy installation with swivel screws 10.Should have Glass filled polycarbonate housing (UL 94-V-0) Knife edge pointer. 11.Self lifting terminal clamp assembly 12.IP 52 protection 13.Wide measurement band: 10 to 100% of FSD Movement: 1 Moving coil movement should have pivots of very high hardness. 2 Movement should have suspended between spring loaded Sapphire Jewels. 3 Movement should have properly shielded & critically damped by eddy 14.currents induced in coil former. Reference Standards: 1 Performance Standard: IEC 60051 & IS 1248 2 Safety standard: IEC 61010 3 Nominal case and cutout dimensions: IS 2419 & DIN 4370 4 Scale and Pointer: DIN 43802 5 Connection and Terminal markings: DIN 43807 6 Terminal bolts / leads: DIN 46200 / 46282 7 Safety requirements and protective measures: IS 9249 - 1979
54	Goods	Equipment	546	ELECTRONICS MECHANIC	55/52	4	0	4	Milli Ammeter (DC) : 0 – 500 mA	4000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	SPECIFICATION FOR ELECTRICAL AND ELECTRONICS TOOLS AND EQUIPMENTS GROUP ITEMS Version 3, 2018-19 Sr.No.29 & Page No-35 /148 .
55	Goods	Equipment	546	ELECTRONICS MECHANIC	55/53	4	0	4	Op Amp trainer :	60000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	SPECIFICATION FOR ELECTRONICS TRAINERS Version 4, 2019 – 20 Sr.No-12 & Page No-22/36
56	Goods	Equipment	546	ELECTRONICS MECHANIC	55/54	8	1	7	Digital IC Trainer : Breadboard for Circuit design with necessary DC Power Supply, Graphical LCD, Clock Frequency 4 different steps, Data Switches: 8 Nos, LED Display: 8 Nos. (TTL), Seven Segment Display, Teaching Simulation Software	140000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	SPECIFICATION FOR ELECTRONICS TRAINERS Version 4, 2019 – 20 Sr.No-6 & Page No-13/36
57	Goods	Equipment	546	ELECTRONICS MECHANIC	55/55	2	0	2	Digital IC Tester :	170000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	2. 4 f Channel Multimedia Speaker System with Bluetooth (Black) 3. Operating system: 16 key film keypad with dual tone announcing. 4. Display system: 6 digit LED display shows the model no. of tested device and all kinds of function prompts; 4 LED indicator show the working condition of tester. 5. Power supply voltage: 220V±10%, 50Hz 6. Power consumption: 12VA 7. Operating temperature: 0°C–+40 f. Operating time: turn off for 5 minutes after one hour continuous running. For non-stop operating, please keep the supply voltage keep the supply voltage 230 v. Ambient temp greater than 25 degr8. Structure: Bench top, plastic chassis 9. Dimension: 292x235x75 cm i. Weight: 2.0kg
58	Goods	Equipment	546	ELECTRONICS MECHANIC	55/56	12	0	12	Digital and Analog Bread Board Trainer : DC/AC Power Supply, Sine/ Square/ TTL Generator Data Switches, LED indication, LED Display: 8 in Nos Simulation/Teaching Content through software	180000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	On Platform Breadboard to design circuits On board DC Power Supply: +5V/1A (fixed); ±15V/1A (fixed); ±15V/200mA (Variable) On Board AC Supply: 5V-0V-5V; 10V-0V-10V (Provision to use as 5V, 10V, 15V, 20V AC & also as center tap) Sine/ Square/ TTL Generator: 10Hz to 1MHz in 4 Steps (Variable in between the steps) Amplitude: Sine (0 to 15Vpp); Square Wave (0 to 10Vpp); TTL-5V (fixed) Volt/ Current/ Frequency Measurement for Voltage Range +12V to -12V DC, Current Range 0 to 500mA DC and Frequency Range DC to 100KHz (All with respect to Ground) Display: LCD Computer Interface: Acquisition from two Analog input channels (Max. input 1 Volt) Continuity Tester: For testing the continuity. Should provided with beeper sound. Fixed TTL (Clock): 0.1Hz Data Switches: 8 in Nos (Toggle switches for High/Low TTL levels) with LED indication LED Display: 8 in Nos (for High/Low TTL levels indication) Logic Probe: Logic level identifier H/L for TTL level (7 segment display) Potentiometer: 6mos (100Ω to 47KΩ) Speaker: 8Ω/2W for audio use Power Supply: 110-220V, 50Hz Trainer should be RoHS compliant Trainer should be compact, lightweight and housing should be made of ABS material. The trainer should include online single user Classroom / laboratory teaching, learning and simulation software module on Analog & Digital Electronic with following key features: 5.20.1 The content should designed by using platforms like Visual Basic, Dot Net, Flash etc. and should be useful to understand the basic concepts of various technologies in electronics including advance technologies, the software should comprises simulations, animations, videos, graphs, charts, along with mandatory rich content and theory to understand fundamental concepts. interactive learning objects. FAQ. MCQ etc. of

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59	Goods	Equipment	546	ELECTRONICS MECHANIC	55/59	8	8	0	Computers in the assembled : form (including cabinet, motherboards, HDD, DVD, SMPS, Monitor, KB, Mouse, LAN card, Blu-Ray drive and player), MS Office education version . :	0	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	1. Including metallic cabinet, 2. Motherboards: Dual core 3. HDD: 500GB, RAM 4 GB. 4. DVD: Blu-Ray drive and player 5. SMPS ATX: 240 V, 300 W 6. Monitor: TFT 15 inch ultra thin full HD LED 7. Mouse and Keyboard: USB 8. LAN card, sound card 9. Speaker, On/Off switch, Reset switch, Indicator etc. 10. Processor: i5/i7 11. Cabinet fan: 12 V DC 12. Processor Fan: 12 V DC 13. Buzzer: 6V 14. HDMI cables, USB cables, mains cable 3m 15. Cpu cabinet fitting screw
60	Goods	Equipment	546	ELECTRONICS MECHANIC	56/61	2	1	1	Laser jet Printer :	15000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	1. LaserJet All-in-One Wireless - Wi-Fi Multi-Function Printer 2. Print Speed Upto 25/26 ppm 3. A4/letter (Normal) First page out in as fast 8 seconds 600 MHz processor with 256MB RAM Duty Cycle up to 15000 pages per month Colour flatbed scanner with ADF Automatic duplex 4. printing Wi-Fi (802.11b/g/n) Functions: Print, copy, scan, fax Ethernet networking; 5. ePrint; USB; Wireless direct printing Automatic document feeder; 6. Front USB flash drive port; Two-sided printing; Print from a mobile device. 7. With Mains chord: 3m and installation CD
61	Goods	Equipment	546	ELECTRONICS MECHANIC	56/63	2	0	2	Electronic circuit simulation software with 6 user licenses : Circuit Design and Simulation Software with PCB Design with Gerber and G Code Generation, 3D View of PCB, Breadboard View, Fault Creation and Simulation.	200000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	The software should have facility of circuit simulation and PCB design of analog, digital and mixed electronic circuits with their PCB layouts. It should have a library of at least 20 thousand components. It should support Spice, VHDL, Verilog, Verilog A/MS and System C, Create Digital filters in System C and run in software, add MCUs in System C to the software. It should also have facility to analyse SMPS, RF, Communication, Power Electronics and Optoelectronic circuits. The software must be able to simulate PIC, AVR, 8051, ARM and Arduino MCUs, in digital or mixed circuit environment. It should have features to generate and debug MCU code using the integrated flow chart tool and test microcontroller applications in a mixed circuit environment. The software should have facility of fault creation in the components, automatic calculation of the component value for the optimization of designed circuit. It should support digital circuit simplification of digital logics and the implementation of logic gates using Quine-Mccluskey method and Karnaugh-Map. The software should support symbolic analysis, automatic creation of closed form expressions and for DC, AC and Transient analysis of linear circuits. The software should support ADCs, DACs with SPI, I2C, SPI bus simulation, PM bus, SM bus simulation. It should also provide facility to study two-port parameters of networks (S, Z, Y and H), DC Transfer Characteristic with Nested sweep option and Parameter Sweeping function to study the response of components. Functions to plot the frequency response, Phasor Diagram, Nyquist Diagram and Noise Analysis. Linux simulation on ARM MCU should be possible. Pre-recorded (.wav) files can be used as input in circuits and transient analysis results can be converted to .wav files or played using the sound system of computers. All six user perpetual license of the software should support either the digital online access, and simulation or the license protection should be supported through USB hardware dongle and have facility to upgrade in future.
62	Goods	Equipment	546	ELECTRONICS MECHANIC	56/66	2	0	2	DSO (colour) : 4 Channel , 50MHz Real Time Sampling 1G Samples/Sec, 12 Mpts Memory with PC Interface USB, LAN and math function includes +, -, FFT, differential, integral, abs, log etc.	120000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Sampling Modes Real-Time Equivalent Averages N time acquisitions, all channels simultaneously, N is selectable from 2, 4, 8, 16, 32, 64, 128 and 256 Bandwidth DC to 6 MHz Attenuation ratio 1:1 Compensation Range 10pF-35pF Oscilloscope with 1MΩ input impedance 1MΩ/2% input voltage 150V RMS CAT I or 150V DC CAT I 150V RMS CAT II or 150V DC CAT II 100V RMS CAT III or 100V DC CAT III Input Coupling AC, DC, GND Probe Attenuation Factors 1X, 10X, 100X, 1000X Maximum input voltage 400V (DC+AC Peak, 1MΩ, 10X) 5V (Rms, 50Q, BNC) Record Length 4K samples for each channel Measurements Cursors Measure Manual Voltage difference between cursors (ΔV) Time difference between cursors (ΔT) Reciprocal of ΔT in Hertz (1/ΔT) Track Voltage value for Y-axis waveform Time
63	Goods	Equipment	546	ELECTRONICS MECHANIC	56/68	4	0	4	SMD Soldering & De soldering Station with necessary accessories :	60000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Version 3 2018 - 19
64	Goods	Equipment	546	ELECTRONICS MECHANIC	56/69	2	2	0	DOL starter :	0	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	1. 32Amp, Single Phase 2. Steel/Metallic body 3. Motor Rating (KW) : 3HP 4. Motor Rating (Hp) : 7.5 Rated Voltage : 415 V 5. DOL Starter 6. Contactor Type: 10 MM, 7. Overload Relay: 6 x 10 with easy replaceable heavy-duty fixed 8. moving contacts Coil Voltage 9. Range between 240-440 Volts with easy replacement of coil. 10. Thermal Overload Relay ensures
65	Goods	Equipment	546	ELECTRONICS MECHANIC	56/70	2	0	2	AC Motor Trainer Kit ½ HP motor : Single Phase Contactors Relays MCB DOL Starter :	20000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Control Panel consisting of high grade FRP material for safety and in compliance with IS302-1/IEC60335-1, tested from NABL accredited Lab. Rust free powder coated front panel Micro-controller based highly accurate digital meters Setup should be provided with Digital Tachometer Machine have CE Marking. Machine fitted with heavy duty channel with mechanical loading arrangements and Aluminum cast Brake-Drum/Pulley arrangements for heat suppression Equipped with supply indication lamps Good quality and durable spring balance for accurate results Diagrammatic representation for the ease of connections so that students can easily understand the concept of machine. Provided with suitable protection such as fuses, MCB, earthing provision BS10 safety terminals in compliance with IS302-1/IEC60335-1, tested from NABL accredited Lab Type: Three Phase Squirrel Cage Induction Motor (Havells or equivalent) Power Rating: 5HP Voltage Rating: 415V AC ± 5%, 50Hz Rated Speed: 1440 RPM ± 7.5% Insulation: Class 'F' Loading arrangement: Mechanical Spring Balance: 2 Nos. (Tubular Type) Brake Drum/Pulley: Aluminum cast with heat suppression Facility Machine Base: 'C' Channel Protection: Fuses (mounted at the terminal box of the Machines) Measuring Unit: 4.23.1 Voltmeter: 500V (1No.) 4.23.2 Ammeter: 10A (1No.)

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66	Goods	Equipment	546	ELECTRONICS MECHANIC	56/71	4	0	4	Frequency modulator and Demodulator trainer kit : FM Modulator Type : Reactance Modulator, Varactor Modulator, VCO Based Modulator FM Demodulator type All 5 demodulation techniques Detailed teaching and learning contents through software.	60000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	On-board audio oscillator, 3 types of FM modulators 5 different types of demodulator, amplitude limiter & filter. Experiment for effect of noise in FM single Test points 30 nos or more for wave form observation & analysis Switched faults: 10 nos or more to understand working of a block in detail LED indicator for signal flow & Selection. Experiment for effect of noise on detection of FM Signal Modulating signal range: 300Hz to 3.4KHz Carrier frequency Range (Fixed): 455 KHz Carrier frequency Range (Variable): 10 KHz to 200 KHz FM Modulator Type: Reactance Modulator, Varactor Modulator, VCO Based Modulator FM Demodulator type: Detuned Resonant Detector, Quadrature Detector, Foster Seeley Detector, Ratio Detector, PLL Detector (2 types: IC 4046 and IC 565 based), Low Pass Filter: 3.4 KHz cut off frequency amplifier (with adjustable Gain) Trainer should be RoHS compliant Trainer should be compact, lightweight and housing should be made of ABS material. Trainer should come with technical chart pasted on it to learn and understand more about applications and technical details. The trainer should include online single user Classroom / laboratory teaching, learning and simulation software module on Analog Communication with following key features: 9.18.1 The content should designed by using platforms like Visual Basic, Dot Net, Flash etc. and should be useful to understand the basic concepts of Analog Communication, the software should comprises simulations, animations, videos, graphs, charts, along with mandatory rich content and theory to understand fundamental concepts, interactive learning objects, FAQ, MCQ etc. of Analog Communication with following topics: 9.18.2 It should help students to analyse & design different analog PAM, PPM, PWM modulation & demodulation techniques, Natural & flat-top sampling, On-board filter and ac amplifier. Selectable 4 different sampling pulse frequencies on board. Voice communication using dynamic microphone & speaker.
67	Goods	Equipment	546	ELECTRONICS MECHANIC	56/72	4	1	3	PAM, PPM, PWM trainer kit :	45000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	On-board filter and ac amplifier. Selectable 4 different sampling pulse frequencies on board. Voice communication using dynamic microphone & speaker.
68	Goods	Equipment	546	ELECTRONICS MECHANIC	56/73	4	0	4	AM/FM Commercial radio receivers :	4000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	AM/FM Commercial radio receivers :
69	Goods	Equipment	546	ELECTRONICS MECHANIC	56/74	8	0	8	Microcontroller kits (8051) along with programming software (Assembly level Programming) : Core 8051, ready to run programmer for AT89C51/52 & 55 programming modes Key Pad and PC circuits. Detailed learning content through simulation Software.	200000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Trainer should be RoHS compliant Trainer should be compact, lightweight and housing should be made of ABS material. Trainer should come with technical chart pasted on it to learn and understand more about applications and technical details. Communication: USB Programming mode: PC mode, Hex keypad mode MCU: 8051 core Crystal Frequency: 11.0592 MHz DC Power Supplies: +12V, -12V, +5V & - 5V Programmer: Ready to run programmer will program 8051 devices Interconnection for modules: 2 mm patch cords and FRC cables Online Product Manual: Should include Theory, procedure, reference, results etc. Power Supply: 110V - 260VAC, 50Hz Accessories: USB cable, Mains cord, Patch cords, 20 Pin FRC Cable and & Power Supply Input Interface Module 19.15.1Keyboard: ASCII keyboard 19.15.2LED S: 12 Nos. 19.15.3Switches: 4 Nos. 19.15.4Keypad: 4 X 4 matrix hex keypad 19.15.5Power Supply: From Microcontroller development platform 19.15.6Study Material: Online - Include theory, procedure, reference results, etc. 19.15.7Interface: 20 pin FRC cable 19.15.8Test points: 2 Nos. Display Module 19.16.1Display: 16 x 2 character LCD 19.16.2Contrast control: 0 - 5 V (Variable) 19.16.3Backlight control: 0 - 5 V (Variable) 19.16.4Seven segment display: 4 Nos. 19.16.5LED bar graph: 1 No. Version ADC/DAC Module 19.17.1ADC: ADC0808 19.17.2DAC: DAC0808 19.17.3Power Supply: From Microcontroller development Platform 19.17.4Interface: 20 pin FRC cable 19.17.5Test Points: 25 Nos. or more Computer Interface Module 19.18.1Serial Communication: RS232 Port 19.18.2USB Communication: USB port 19.18.3Baud Rate: Configurable (Default 9600) 19.18.4Power Supply: From Microcontroller development platform 19.18.5Interface: 20 pin FRC cable 19.18.6Test points: 6 Nos 19.18.7Banana socket: 15 Nos or more Motor Drive Module 19.19.1Stepper Motor: +5 V 19.19.2DC Motor: +12 V 19.19.3Servo Motor: +5 V 19.19.4Interface: 20 pin FRC cable 19.19.5Test points: 13 19.19.6Power Supply: From Microcontroller development platform Data Acquisition System 19.20.1Analog Inputs: 4 Inputs with 10 bit resolution 19.20.2Analog Outputs: 2 Outputs with 10 bit resolution 19.20.3Digital Inputs: 11 TTL Inputs 19.20.4Digital Outputs: 11 TTL Outputs 19.20.5Unity gain amplifiers: 2 (0-5V DC) 19.20.6Counter: 0 to 6MHz (square wave) 19.20.7Power Supply: USB Powered
70	Goods	Equipment	546	ELECTRONICS MECHANIC	56/75	2	0	2	Application kits for Microcontrollers 6 different applications : 1. Input Interface : 4x4 Matrix Keypad, ASCII Key PAD, Four Input Switch 2. Display Module 16X2 LCD, Seven Segment, LED Bar Graph 3. ADC/DAC Module with most popular DC/DAC0808 4. PC Interface: RS232 & USB 5. Motor Drive: DC, Servo, Stepper 6. DAQ: Data Acquisition to sense different sensors signals	50000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Version ADC/DAC Module 19.17.1ADC: ADC0808 19.17.2DAC: DAC0808 19.17.3Power Supply: From Microcontroller development Platform 19.17.4Interface: 20 pin FRC cable 19.17.5Test Points: 25 Nos. or more Computer Interface Module 19.18.1Serial Communication: RS232 Port 19.18.2USB Communication: USB port 19.18.3Baud Rate: Configurable (Default 9600) 19.18.4Power Supply: From Microcontroller development platform 19.18.5Interface: 20 pin FRC cable 19.18.6Test points: 6 Nos 19.18.7Banana socket: 15 Nos or more Motor Drive Module 19.19.1Stepper Motor: +5 V 19.19.2DC Motor: +12 V 19.19.3Servo Motor: +5 V 19.19.4Interface: 20 pin FRC cable 19.19.5Test points: 13 19.19.6Power Supply: From Microcontroller development platform Data Acquisition System 19.20.1Analog Inputs: 4 Inputs with 10 bit resolution 19.20.2Analog Outputs: 2 Outputs with 10 bit resolution 19.20.3Digital Inputs: 11 TTL Inputs 19.20.4Digital Outputs: 11 TTL Outputs 19.20.5Unity gain amplifiers: 2 (0-5V DC) 19.20.6Counter: 0 to 6MHz (square wave) 19.20.7Power Supply: USB Powered

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71	Goods	Equipment	546	ELECTRONICS MECHANIC	56/76	4	0	4	Sensor Trainer Kit Containing following Sensors 1. Thermocouple 2. RTD 3. Load Cell/ Strain Gauge 4. LVDT : Graphical touch LCD with inbuilt processor for viewing the output waveforms, In built DAQ, and standard processing circuits like Inverting , Non - Inverting , Power, Current ,5. Smoke Detector Sensors 6. Speed Sensor 7. Limit Switch 8. Photo sensors 9. Optocoupler 10. Proximity Sensor : Instrumentation Differential Amplifier, F.V./V.F./V.I/V Converter, Sensors :RTD,NTC Thermistor,LM35 Thermocouple, Gas(Smoke) Sensor, Load cell, LVDT Sensor, Speed Sensor	140000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	1. Thermocouple 2. RTD 3. Load Cell/ Strain Gauge 4. LVDT 5. Smoke Detector Sensors 6. Speed Sensor 7. Limit Switch 8. Photo sensors 9. Optocoupler 10. Proximity Sensor SPECIFICATION FOR ELECTRONICS TRAINERS Version 4 2019 – 20 Sr no. 7 and page no. 14 of 36
72	Goods	Equipment	546	ELECTRONICS MECHANIC	57/80	12	0	12	Seven segment DPM trainer :	180000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Trainer should be RoHS compliant Trainer should be compact, lightweight and housing should be made of ABS material. Technical Details: 15.4.1 Voltage 15.4.1.1 DC Voltage: 0 - 350V 15.4.1.2 AC RMS Voltage: 0 - 350V 15.4.2 Current 15.4.2.1 DC Current: 0 - 2A 15.4.2.2 AC Current: 0 - 2A 15.4.3 Resistance: 0 - 2MΩ 15.4.4 On Board Fuse: 200mA, 2A 15.4.5 Mains supply: 230V, 50Hz The trainer should be able to perform following experiments: 15.5.1 Study of DC and AC Voltage Measurement 15.5.2 Study of DC and AC Current Measurement 15.5.3 Study of Resistance Measurement Study of Continuity Tester
73	Goods	Equipment	546	ELECTRONICS MECHANIC	57/81	12	0	12	LCD based DPM :	18000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	1.3.5 digit LCD based DPM 2. Digital Panel Meter 3. Range : 0 to +/- 2 A DC (Mains Operated) : 96x96mm 4.Input supply: 5 V 5. Fiber Body
74	Goods	Equipment	546	ELECTRONICS MECHANIC	57/82	8	0	8	SMPS of different make :	16000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	<input type="checkbox"/> Input Voltage: AC 100 - 264V 50 / 60Hz, Output Voltage: 24V DC, 5A, Output Type - DC <input type="checkbox"/> Output voltage: Adjustment range: ±20% <input type="checkbox"/> Protections: Overload / Over Voltage / Short Circuit <input type="checkbox"/> Auto-Recovery After Protection <input type="checkbox"/> Universal AC input / Full range <input type="checkbox"/> 100% Full Load Burn-in Test <input type="checkbox"/> Cooling by Free Air Convection <input type="checkbox"/> LED power supply with a metal body for hidden installation for LED lighting <input type="checkbox"/> Design with Built-in EMI Filter, improve signal precision. <input type="checkbox"/> Certifications: CE & RoHS <input type="checkbox"/> No Minimum Load <input type="checkbox"/> Compact Size Light Weight <input type="checkbox"/> High Efficiency, Reliability & low energy consumption <input type="checkbox"/> Category - Switch Mode Power Adaptor (SMPS) <input type="checkbox"/> MTBF >50,000 hourS
75	Goods	Equipment	546	ELECTRONICS MECHANIC	57/83	2	1	1	UPS trainer : PWM switching technology, Test points to measures the voltages of different sections Overall functioning of UPS Trainer, AVR transformer, UPS with load condition	8500	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	1. Capacity: 500VA Batten Holder, 3 Pin Socket/6 A LED FND Display, 2. Output Voltage: 230 V AC Nominal, On /Off switch-SPDT, 3. Input Voltage: +12V DC/28 watt, Dry Battery 4. Battery Stand by use 13.5v -13.8v, 5. I/p current-2.06 A max.SPDT switches-AC Fuse 6. Output Frequency: 50 Hz. 7. Accuracy: + 5%. 8. Switching: Automatic. 9. Backup time: 12Minutes 10.TEST POINT-8 11. FAULT-S, 12.Supply mains cord-3Mtr
76	Goods	Equipment	546	ELECTRONICS MECHANIC	57/84	8	0	8	UPS :	40000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	1.Product : Dimensions 34 x 13 x 19.5 cm; 13 Kilograms 2. Colour : Black 3. Mains Cords: 3 Mtrs 4.Battery+12V DC/28 watt, Dry Battery 5. 600 VA Backup Power Supply 6. Battery Stand by use 13.5v -13.8v, 7. I/p current-2.06 A max 8. I/P voltage 230 Volt & Output Frequency: 50 Hz. 9.Microprocessor control guarantees high reliability 10.Automatic voltage regulator for boost and buck 11.Wide input voltage rangE 12.Cold start function 13.Fiber Body, buzzer and indicators
77	Goods	Equipment	546	ELECTRONICS MECHANIC	58/87	2	0	2	Cell phone power source with charger chords for different cell phones :	2000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Quad Camera Setup - 64MP (F1.8) Main Camera +8MP (F2.2) <input type="checkbox"/> Ultra Wide Camera +5MP(F2.2) Depth Camera +5MP(F2.4) <input type="checkbox"/> Macro Camera and 32MP (F2.0) <input type="checkbox"/> front facing Camera <input type="checkbox"/> 6.4-inch(16.21 centimeters) <input type="checkbox"/> Super AMOLED - Infinity U Cut Display , FHD+ Resolution <input type="checkbox"/> (2340 x 1080) , 404 ppi pixel density and 16M color support <input type="checkbox"/> Android v10.0 operating system with 2.3GHz + 1.7GHz <input type="checkbox"/> Exynos 9611 Octa core processor, 8GB RAM, 128GB <input type="checkbox"/> internal memory expandable up to 512GB and dual SIM6000 mAh Battery
78	Goods	Equipment	546	ELECTRONICS MECHANIC	58/88	2	0	2	LCD TV (Trainer kit) : 21-inch full HD LCD Color Television should support PAL/ NTSC video formats Complete block diagram of a LCD TV system, Study board indicating various sections of LCD TV along with the test points and switch faults	40000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	1.Automation Grade Automatic 2.Frequency 50Hz 3.Power Supply 230 V 4.Frame Material Aluminum 5.LCD Color Television should support 6.PAL/ NTSC video formats 7.Complete block diagram of a LCD TV system, Study board indicating various sections of LCD TV along with the test points and switch faults 8.LCD Screen 21 inches 9. Instruction Manual 10.Mains cords 3 Mtrs. and connecting wires ribbon type,RemoteControls.USBfacilitie.

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79	Goods	Equipment	546	ELECTRONICS MECHANIC	58/90	2	1	1	LED TV (Trainer kit) : 20-inch full HD LED Color Television, PAL/ NTSC video formats, complete block diagram of a LED TV system, Study board indicating various sections of LED TV along with the test points and switch faults Trouble shooting in different sections.	25000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	LED TV (Trainer kit) : 20-inch full HD LED Color Television, PAL/ NTSC video formats, complete block diagram of a LED TV system, Study board indicating various sections of LED TV along with the test points and switch faults Trouble shooting in different sections.
80	Goods	Equipment	546	ELECTRONICS MECHANIC	58/91	4	1	3	LED TV (21") :	60000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	1.Screen Size : 21 inches and 52.5 Centimeters. 2.Width 51.2 Centimeters 3.Maximum Display Resolution 1920x1080Item 5.Weight2.6 Kg 6.Product Dimensions7 x 51.2 x 32 cm 7.Components D-sub Cable, Quick Setup Guide 8.Remote Control. 9.Mains Cords-3 mtrs.10.Wall mounting stand. 10. Voice operated 11. Internet facility 12. Wifi connectivt
81	Goods	Equipment	546	ELECTRONICS MECHANIC	58/93	2	1	1	Solar Training Kit/ Simulator : With built in meters for DCV, DCA, AC multifunction Meter (for ACI, ACV, Power, Frequency), Protection Circuits, BS-10 terminals for making the connection, Single/ Dual axis tracking system Charge Controller : PWM based MPPT, Charging Stage : Bulk, Absorptions and Float	75000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Solar Training Kit/ Simulator : With built in meters for DCV, DCA, AC multifunction Meter (for ACI, ACV, Power, Frequency), Protection Circuits, BS-10 terminals for making the connection, Single/ Dual axis tracking system Charge Controller : PWM based MPPT, Charging Stage : Bulk, Absorptions and Float
82	Goods	Equipment	546	ELECTRONICS MECHANIC	58/94	4	0	4	LED lighting system : Measurement of Power, Voltage, Current, Power Factor and Light output performance of different lighting products like LED, CFL at variable input voltages 0 to 245V variable AC	60000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	LED lighting system : Measurement of Power, Voltage, Current, Power Factor and Light output performance of different lighting products like LED, CFL at variable input voltages 0 to 245V variable AC
83	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	52/01	25	0	25	Connecting screwdriver : 100 mm	5000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	1.2. Generally conform to IS 844 - 1979 1.3 Dimensions: 1.3.1 Size: 6 mm X 100 mm (A - 100 mm, D - 6 mm) 1.3.2 Tip Bit Size: B X T : 6 mm X 0.6 mm 1.4Blade: 1.4.1 Blade made of high grade Silicon - Manganese Steel (EN 45 A) 1.4. 2 Blade should be differentially hardened & tempered to resist wear, bending & meet high torque requirement 1.4.3 Hardness on Tip: 55 - 58 HRC 1.4.4 Minimum Torque Value: 0.21 Kg.m 1.4.5 Bright and Smooth Nickel Chrome plating finish to effectively protecting blade Against corrosion 1.5Handle: 1.5.1 Material of Handle: Cellulose Acetate 1.5.2 Handle should be made of high grade CA Plastic, which is non - flammable & Unaffected by oil, petrol, grease, water - practically anything 1.5.3 Handle should withstand rough use including hammering 1.5.4 Handle design should be such that it gives comfortable grip even at higher Torques 1.5.5 Handle & blade assembly should be insert molded 1.6Tip: 1.6.1 Tip should be formed by Forging & Trimming 1.6.2 Tip should be precision - ground to 10 degree angle to ensure firm grip in the Screw slot. 1.6.3 The Blade tip should be magnetized to lift small screw from confined places or to hold the screw in position 1.6.4 Tip sides & faces should be well ground with good finish 1.6.5 Double ear coining should be provided for the blade.

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84	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	52/02	25	18	7	Neon tester : 500 V.	420	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	2.3.Dimension 2.3.1 A: 60 mm 2.3.2 D: 6 mm 2.3.3 Tip Size: B X T = 3.5 mm X 0.5 mm 2.4. Minimum Torque Value: 0.09 Kg.m 2.5. Generally conform to IS 5579 - 1985 2.6. Blade made of high grade Silicon - Manganese Steel (EN - 45A) 2.7. Blade should be differentially hardened & tempered to resist wear, bending & meet high torque requirement 2.8. Hardness on Tip: 55 - 57 HRC 2.9. Bright and Smooth Nickel Chrome plating finish to effectively protecting blade against Corrosion 2.10. Handle should be made of high grade CA Plastic, which is non - flammable & unaffected by oil, petrol, grease, water - practically anything 2.11. Suitable for checking at minimum 90 V DC and 60 AC voltage and maximum upto 500 V AC 2.12. Blade is provided with PVC insulation sleeve & resistance having 1 mega ohm for Preventing the electric shock 2.13. NEON filled glow lamp should give a visible glow in normal day light 2.14. Maximum leakage current of 0.12 microampere ensures safe & shock free in use. 2.15. Tip should be precision - ground to 5 degree angle to ensure firm grip in the screw Slot.
85	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	52/03	25	11	14	Screw driver set : set of 5	7000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	3.3. Sizes: 3.3.1 A: 50 mm D: 3 mm TIP SIZE: 00 3.3.2 A: 60 mm D: 3 mm TIP SIZE: 0 3.3.3 A: 75 mm D: 3 mm TIP SIZE: 1 3.3.4 A: 100 mm D: 6 mm TIP SIZE: 2 3.3.5 A: 200 mm D: 8 mm TIP SIZE: 3 3.4. Blade made of High Grade Silicon - Manganese Steel 3.5. Blade should be differentially hardened & tempered to resist wear, bending & meet High torque requirement 3.6. Hardness on Tip: 55 - 58 HRC 3.7. The Blade tip should be magnetized to lift small screw from confined places or to hold The screw in position 3.8. Bright and Smooth Nickel Chrome plating finish to effectively protect blade against Corrosion 3.9. Handle should be made of high grade CA Plastic, which is non - flammable & unaffected by oil, petrol, grease, water - practically anything 3.10. Handle should withstand rough use including hammering 3.11. Handle design should be such that it gives comfortable grip even at higher torques
86	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	52/04	25	20	5	Insulated combination pliers : 150 mm	900	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	4.3. Material: C - 70 4.4. Finish: Polished / Chrome plated / satin finish 4.5. Length (A): 200 mm 4.6. Drop forged, hardened tempered 4.7. Differential hardening
87	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	52/05	25	5	20	Insulated side cutting pliers : 150 mm	4500	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	5.2. Generally conform to IS 4378 – 1990 5.3. Drop Forged from High Carbon Steel & scientifically treated to give tough body (45 -48 HRC) 5.4. Cutting edges should be induction hardened. Cutting edge Hardness 55 - 60 HRC. 5.5. Rivet should be hardened and made of carbon Steel 5.6. Length: 200 mm 5.7.High Voltage Insulation: Should be able to withstand 4000 V DC or 2800 V AC 5.8. Insulation Sleeves made from High Quality CA Plastic 5.9. Thicker Sleeves for comfortable Grip 5.10. Special thumb protector for sleeves to minimize the risk of electric shock in case plier 5.11. Should be able to cut soft (74 to 84 Kg/ mm ²) &Hard (140 Kg/ mm ²) wires 5.12. Should be able to cut 2.0 mm of hard wire Diameter & 1.5 mm of soft wire Diameter 5.13. Cutting edges should be sharp and precision machined to appropriate angle to cut Thick and thin wires with ease.
88	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	52/06	25	20	5	Long nose pliers : 150 mm	1000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	6.2. Generally conform to IS 3552 - 1989 6.3. Length: 200 mm 6.4. Drop Forged from High Carbon Steel & scientifically treated to give tough body (45 -48 HRC) 6.5. Cutting edges should be induction hardened. Cutting edge Hardness 55 - 60 HRC. 6.6. Rivet should be hardened and made of carbon Steel 6.7. High Voltage Insulation: Should be able to withstand 4000 V DC or 2800 V AC 6.8. Minimum load value: 13.80 Kg 6.9. Insulation Sleeves made from High Quality CA Plastic which are long lasting and will not Break or crack even if it falls from Height and ensures safe electrical working. 6.10. Thicker Sleeves for comfortable Grip 6.11. Special thumb protector for sleeves to minimize the risk of electric shock in case plier Slips while in use. 6.12. Should be able to cut soft (74 to 84 Kg/ mm ²) &hard (140 mm ²) wires 6.13. Should be able to cut Hard wire of Diameter: 1.60 mm & Soft wire of Diameter: 1.0mm 6.14. Cutting edges should be sharp and precision machined to appropriate angle to cut Thick and thin wires with ease.

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89	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	52/07	25	9	16	Soldering iron : 25 W, 240 V.	4400	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	7.2. Generally conforming to IS 1931-2000 7.3. Should have specially coated Copper bits (High Quality) for Longer Life. 7.4. Should have Special double layered cartridge type element transfer heat very Efficiently directly to the bits. 7.5. Should have Iron reach soldering temperature within few seconds
90	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	52/08	25	20	5	Electrician knife :	250	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	8.2. Generally conforming to IS 1931-2000 8.3. Blade should be made of high grade Steel for sharp and long cutting 8.4. Hardness: 62 - 64 HRC 8.5. ABS Plastic Body for higher strength & soft material for comfort in use 8.6. Slider locking system for enhanced safety 8.7. Blade Width: 18 mm
91	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	52/09	25	20	5	Tweezers : 100mm	100	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	9.2 Generally conforming to IS 1931-2000 9.3 Total Length: 120 mm ± 1 mm 9.4 Total Width: 9.3 mm ± 0.1 mm 9.5 Total thickness: 1.2 mm ± 0.05 mm 9.6 Material Stainless Steel 9.7 Hardness: 40 - 42 HRC 9.8 Should be useful for beading and many aspects of watch & clock repair.
92	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	52/10	25	0	25	Digital Multimeter :	57500	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	10.2. Generally conforming to IS 1931-2000 10.3.1. Display Count: 4000 10.3.2. DC Voltage: 400mV-500V (Accuracy ±0.8% +1) 10.3.3. AC Voltage: 400mV-500V (Accuracy ±1.2% +3) 10.3.4. AC Current: 400µA -10A (Accuracy ±1% +2) 10.3.5. DC Current: 400µA- 10A (Accuracy ±1.5% +5) 10.3.6. Resistance: 400Ω to 40MΩ (Accuracy ±1% +2) 10.3.7. Capacitance: 4nF to 100µF (Accuracy ±4% +3) 10.3.8. Auto Range: Should be available 10.3.9. Diode Measurement: Should be available 10.3.10. Continuity Buzzer: Should be available 10.3.11. Low Battery Indication: Should be available 10.3.12. Input impedance for DCV should be available 10.3.13. Protection: Dual Fuse Protection 10.3.14. Size: 130 mm X 75 mm X 35mm (±10%) 10.3.15. Compliance: CE Certificate, CAT II, ETL Certified 10.3.16. Accessories 10.3.16.1 Test Lead 10.3.16.2 Manual 10.3.16.3 Required Batteries 10.3.16.4 Calibration Certificate 10.3.16.5 Plastic or Wooden Carrying Case with required cushioning
93	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	52/11	25	0	25	Soldering Iron Change able bits : 15 W	15000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	11.2. Generally conforming to IS 1931-2000 11.3. Should be suitable for soldering 11.4. Should have changeable iron plated tips are available to make the soldering station Excellent for electronic and electric use. 11.5. Length: 18.5 cm (±5%) 11.6. Cable Length: 140 cm (±5%) 11.7. Working Voltage: 240V 50HZ 11.8. Power: 15W 11.9. Suitable for lead-free soldering semiconductors 11.10. Iron Tips: 5 11.11. Should have low current leakage 11.12. Should have constant tip temperature 11.13 Should have high quality Pointed Bit for high end precision soldering 11.14. Should quickly attains working temperature 11.15. Thinner grip for high comfort
94	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	52/12	25	19	6	De- soldering pump :	600	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	12.2. Generally conform to IS 844 - 1979 12.3. Used to remove heated solder from a PCB 12.4. Should be made from high grade aluminum for light weight and airtight function 12.5. Tip should be made of high temperature resistant Teflon
95	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	52/17	1	0	1	Rubber gloves pair :	140	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	17.2. conform to IS 844 - 1979 17.3. Class 0 electrical rubber gloves 17.4. Made from natural rubber 17.5. Length: 13 to 117 inch long 17.6. Gloves should be flexible 17.7. Thickness of latex should be less than 1 mm. 17.8. Gloves should be ISI certified
96	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	52/18	12	10	2	Steel ruler : 30 cm	200	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	18.2. conform to IS 844 - 1979 18.3. Material: Stainless Steel 18.4. Thickness: 0.5 mm 18.5. Hardness: 30 - 35 HRC (Specially Hardened) 18.6. Finish: Polished 2B / Anti-Glare Satin Chrome 18.7. Surface roughness: 0.6 Microns max 18.8. Range: 300 mm 18.9. Measuring least count: Metric Graduation +0.5 mm and English graduation 1 /64 inch 18.10. Accuracy: Metrology Standard EEC Class - I
97	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	52/19	4	0	4	Scriber : 15 to 20 cm	600	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	19.2conform to IS 844 - 1979 19.3. Scriber with Min. Length 150 19.4. 30° Beveled Straight 19.5. Both Point end Hardness 55-60HRC 19.6. Should be of material EN-9
98	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	52/24	2	0	2	Spanners single ended : 6mm to 25mm by 1.0m	1000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	24.2. Package Dimensions: 37.6 x 15.6 x 8 cm; 4.18 Kilograms 24.3. Material: Chromium Steel 24.4. Finish Type: Nickel Chrome 24.5. Head Style: Open End

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99	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	53/32	4	3	1	Hacksaw :	200	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	32.2 Adjustable for 10 inch (250mm) & 12 inch (300mm) blades 32.3 The blade can additionally be set for sawing at 90° 32.4 Storage compartment in the tubular bow should allow for storing spare blades 32.5 Should be fitted with a 12" (300 mm) Steel hacksaw blade 32.6 Overall Length (L): 430mm + 10% 32.7 Height (H): 150 mm + 10% 32.8 Depth of Bow(H): 106mm + 10% 32.9 Strong Frame 32.10 Should have adjustable tension lever 32.11 Should be able to build 30000 PSI in 12 turns
100	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	53/43	1	0	1	Grinder bench electric :	3300	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	43.2. Type of Product: Bench Grinder 43.3. Wheel Diameter: 145mm to 160 mm 43.4. No Load Speed: 10500 RPM to 11500 rpm 43.5. Rated Power Input: 350W to 400 W 43.6. Weight: 8kg to 10 kg 43.7. Overall Length: 320 mm 360mm 43.8. Grinding Bore Diameter: As per ISI standards
101	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	53/44	12	0	12	Soldering iron : 25w	2700	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	44.2. Should have specially coated Copper bits (High Quality) for Longer Life. 44.3. Should have Special double layered cartridge type element transfer heat very Efficiently directly to the bits. 44.4. Should have Iron reach soldering temperature within few seconds 44.5. Should have Prolonged Life of heating Elements and Soldering Bits. 44.6. Should have extremely low leakage current. 44.7. Should have Very light and heat resistant handles for comfortable use. 44.8. Tip replacement should be Easy and speedy 44.9.25 Watts/ 240 Volts Soldering Iron 44.10. Should have Maximum Temperature: 3800
102	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	53/45	12	0	12	Soldering iron : 10 w	1560	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	45.2. Should have specially coated Copper bits (High Quality) for Longer Life. 45.3. Should have Special double layered cartridge type element transfer heat very Efficiently directly to the bits. 45.4. Should have Iron reach soldering temperature within few seconds 45.5. Should have Prolonged Life of heating Elements and Soldering Bits. 45.6. Should have extremely low leakage current. 45.7. Should have Very light and heat resistant handles for comfortable use. 45.8. Tip replacement should be Easy and speedy 45.9.10 Watts/ 240 Volts Soldering Iron 45.10. Should have Maximum Temperature: 3800
103	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	53/46	2	0	2	Temperature controlled soldering station :	7000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	46.2. Input: 230V AC 46.3. Power Consumption: 15Watts 46.4. Type: Digital Control 46.5. Source Cable Length: 1.35 mtrs. 46.6. Iron Cable Length: 1.35 mtrs. 46.7. Temperature Range: 200 deg.C - 480 deg.C 46.8. Sleep Mode: Yes (auto mode 15mins if iron kept idle/untouched)
104	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	53/47	2	0	2	De-soldering pump :	200	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	47.2. Used to remove heated solder from a PCB 47.3. Should be made from high grade aluminum for light weight and airtight function 47.4. Tip should be made of high temperature resistant Teflon
105	Goods	Handtools	054	TECHNICIAN MEDICAL ELECTRONICS	53/52	4	0	4	Electric bells :	1600	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	52.2. Electric bell comprising a plastic case with removable cover 52.3. Voltage Supply 220-240V AC 52.4. Diameter 70 mm metal plated gong
106	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	53/54	2	0	2	Batter storage lead acid :	2200	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	54.2. Dimensions: 345x 175x 215mm 54.3. Capacity: 100 AH 54.4. Voltage: 12V 54.5. Type: Flat Plate 54.6. Inverter support : 900 VA-10 KVA 54.7. Weight: 33 kg 54.8. Warranty: 36 Months
107	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	53/58	2	0	2	Fractional H.P. AC meters :	5000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	58.2. Power 1/12 HP 58.3. RPM 1500 Rpm 58.4. Voltage supply 230V AC, 50Hz 58.5. Construction Solid Aluminium 58.6. Rating Continuous
108	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	53/59	2	0	2	Fractional H.P. DC meters :	2000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	59.2. Power 1/12 HP 59.3. RPM 3000 Rpm 59.4. Voltage supply 24V DC 59.5. Construction Solid Aluminium 59.6. Rating Continuous

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109	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	54/74	2	0	2	D.C./A.C. Voltmeter :	1400	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	70.2. Range: 0 – 5 V, 0- 10V 70.3. Type: Moving Iron AC -Analog 70.4. Input: 5 V , 10V 70.5. Accuracy: Class1.5 70.6. Should be moving iron , panel meters 70.7. Should be housed in molded polycarbonate cases 70.8. Should be suitable for the measurement of AC currents and voltages in the usual frequency range of 15...100Hz. 70.9. Front window glass and bezel should be easily replaceable. 70.10. Should have nearly linear scale 70.11. Scale should have interchangeability 70.12. Should be easy installation with swivel screws 70.13. Should have glass filled polycarbonate housing (UL 94-V-0) Knife edge pointer. 70.14. Should have self lifting terminal clamp assembly 70.15. Should have IP 52 protection Movement 70.16. Moving iron movement should have pivots of very high hardness. 70.17. Movement should be suspended between springs loaded Sapphire Jewels. 70.18. Movement should have properly shielded & critically damped by eddy currents induced in coil former. 70.19. Reference Standards: 70.19.1. Performance Standard: IEC 60051 & IS1248 70.19.2. Safety standard: IEC 61010 70.19.3. Nominal case and cut out dimension s: IS 2419 & DIN43700 70.19.4. Scale and Pointer: DIN43802 70.19.5. Connection and Terminal markings: DIN43807 70.19.6 Terminal bolts/leads: DIN 46200 /46282 70.20. Safety requirements and protective measures: IS 9249 -1979 76.2. Basic Accuracy DC Voltage: ±0.5% rdg + 5 dgis)
110	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	54/76	2	1	1	Insulation Tester :	2000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	76.3. Display: 3½ digit Max. 4000 Counts liquid crystal display 76.4. Sampling Rate: 2 times per second 76.5. Short Circuit (internal design): 1.5mA 76.6. OL Indication: Display should indicate overload 76.7. Operating Temperature: 0°C-40°C, < 75%R.H. 76.8. Storage Temperature: -10°C-60°C, < 80%R.H. 76.9. DC Voltage Range: 1000V 76.10. AC Voltage Range: 700V 76.11. DC Current: 400mA 76.12. AC Current: 400mA 76.13. Resistance: 40M Ω 76.14. Capacitance: 40uF 76.15. Frequency: 4MHz 76.16. Diode & Continuity: Required 76.17. Auto Power Off Required 76.18. Guard Terminal for Insulation Testing: Required 76.19. Insulation Resistance Range: 250V (0.25M Ω ~ 400M Ω)/500V (0.5M Ω ~ 4G Ω) / 1000V (1.5M Ω ~ 40G Ω). 76.20. Overload Protection (internal design): Must be present 76.21. High Voltage Output Status: Should be indicated by LED light (The meter Should Display actual insulation test voltage) 76.22. Should be able to measure: Insulation Resistance, AC & DC Voltage Other Features 76.22. 1. Backlight 76.22. 2. Function Characters Indication 76.22. 3. Auto Power Off 76.22. 4. Low Battery indicator 76.22. 5. Dimensions (LXWXH) in mm: 168 x 155 x 65 (±10%) 76.22. 6. Net Weight: 650 Grams Excluding Battery (±10%) 77.2. Frequency Range 125KHz TO 30MHz 77.3. Output Voltage Approx. 0.5V 77.4. Input Voltage 230V AC 77.5. Model Name/Number CES 309 77.6. Accuracy Approx. ± 5%
111	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	54/77	4		4	Service Oscillator :	0	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	81.2. Frequency of 1 & 3 MHz Intensity of 0-3 w/cm2 with display of output parameters along with timer and two water proof treatment heads, one large to 5 cm second small up to 1.0 cm 81.3. System configuration Accessories spares and consumables- All standard accessories desired for proper functioning of the machine jelly as per requirement. 81.4. Environmental factors - Environmental factors to be complied Shall meet IEC 606-1-1-2 : 2001/ (or equivalent BIS)General Requirement of safety for Electromagnetic compatibility or should comply with89/366EEC,EMCThe unit shall be can able of being stored continuously in ambient temperature of 0-50 deg C and relative humidity of 15-90%the unit shall be capable of operating continuously in Ambient temperature of 10-40 deg Can relative humidity of 15-90% 81.5. Power Supply -Power input to be 220-240 VAC, 50Hz fitted with Indian Plug Should be FDA,CE,UL of BIS Manufacture should have ISO certificate for quality standards Comprehensive training for lab staff and support services till familiarity with the system on site Comprehensive warranty for 2 years and 5years CMC after warranty
112	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	54/81	1	0	1	Ultra sonic diathermy :	10000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	81.2. Frequency of 1 & 3 MHz Intensity of 0-3 w/cm2 with display of output parameters along with timer and two water proof treatment heads, one large to 5 cm second small up to 1.0 cm 81.3. System configuration Accessories spares and consumables- All standard accessories desired for proper functioning of the machine jelly as per requirement. 81.4. Environmental factors - Environmental factors to be complied Shall meet IEC 606-1-1-2 : 2001/ (or equivalent BIS)General Requirement of safety for Electromagnetic compatibility or should comply with89/366EEC,EMCThe unit shall be can able of being stored continuously in ambient temperature of 0-50 deg C and relative humidity of 15-90%the unit shall be capable of operating continuously in Ambient temperature of 10-40 deg Can relative humidity of 15-90% 81.5. Power Supply -Power input to be 220-240 VAC, 50Hz fitted with Indian Plug Should be FDA,CE,UL of BIS Manufacture should have ISO certificate for quality standards Comprehensive training for lab staff and support services till familiarity with the system on site Comprehensive warranty for 2 years and 5years CMC after warranty

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113	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	54/82	2	1	1	ECG Recorder :	30000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	82.2. Compact and light weight 82.3. One Touch Operation for all 12 leads 82.4. Automatic and Manual Modes 82.5. Last Patient's ECG Storage 82.6. USB connectivity for PC interface (optional) 82.7. Indication for Battery Status, Charging and AC/DC operation 82.8. Auto Baseline control to optimize ECG lead printing 82.9. Paper out indication 82.10. Auto Measurements: 82.11. HR (bpm) - RR, PR, QRS, QT & QTC (Intervals)QT/QTc, QT/RR% - P, QRS, T Axis 82.12. Accessories: 82.12.1. ECG Cable 1 No. 82.12.2. Bulb Electrode 1 Set 82.12.3. Clamp Electrode 1 Set 82.12.4. Gel Bottle 1 No. 82.12.5. Power Cable 1 No. 82.12.6. Earthing Cable 1 No. 82.12.7. User Manual 1 No. 82.12.7. User Manual 1 No. 85.2. Size: 4.45 x 6.13 x 0.75 cm 85.3. Type: CRT-P 85.4. Mass: 30.6 g 85.5. Volume: 16.2 cm3 85.6. Connector Type: RA/RV: IS1
114	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	54/85	2	1	1	Pace maker :	0	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	86.2. 60mA X-Ray Generator: Diagnostic X-Ray, Generator. ISI approved 7620-1986 Part-1. 86.3. Output: 6KW as per ISI 7620-1986 single phase. 86.4. Ratings: 20mA, 40mA and 60mA at 45 to 100KVP. 86.5. KVP Range: 30 to 100KVP in 12 KVP steps. 86.6. Time: Solid state electronic timer with timing range from 0.02 to 10 seconds in 24 steps. 86.7. Control: Complete with voltmeter, mA. Meter over load circuit breaker, voltage compensate Voltage between 170 volt to 260 volts in fine & coarse switch for booster transformer for constant mA output at different KVP and line drops. 86.8. Tube Head: Imported X-Ray Tube, heavy duty transformer and high voltage rectifiers etc. all immersed in high grade transformer oil. 86.9. Safety devices: Instantaneous electronic tube overloads protector quick trip overload circuit breaker. 86.10. Accessories: Hand switch with retractable long cord, light beam diaphragm. 86.11. Stand: mobile X-Ray stand
115	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	54/86	1	0	1	60mA Mobile x-ray equipment :	250000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	88.2. Dental Chair. The chair could be adjusted as up and down, backrest front And back for different requirement. 88.3. Assistant Console Assistant to control the function of the water heating and Spraying 88.4. Foot switches to control the dental chair move and instruments which on Instrument tray work 88.5. Imaging System The imaging system for diagnosing 88.6. Light Adjusting Arm the arm to adjust angle and direction of operation light 88.7. Operation light for diagnosing, operational examining 88.8. Balance Arm The arm to connect the instrument tray 88.9. Instrument Tray Assistant device receptacle 88.10. X-Ray Viewer Advice to check the x-ray film 88.11. Extended Tray a tray which set some stuff during using. 88.12. Foot Control the foot control button to control the moving of dental chair 88.13. Cuspidor for patient to drain and clean 88.14. Post-mounted service console. The main control system of the dental unit 88.15. Chair Base the main base of the dental chair 88.16. Basic specification 88.16.1. Rated Voltage: A.C 220V ~230V 88.16.2. 50Hz Rated power: 1100W 88.16.3. Motor Voltage: DC5V
116	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	54/88	1	0	1	Dental Chair :	96000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	88.2. Dental Chair. The chair could be adjusted as up and down, backrest front And back for different requirement. 88.3. Assistant Console Assistant to control the function of the water heating and Spraying 88.4. Foot switches to control the dental chair move and instruments which on Instrument tray work 88.5. Imaging System The imaging system for diagnosing 88.6. Light Adjusting Arm the arm to adjust angle and direction of operation light 88.7. Operation light for diagnosing, operational examining 88.8. Balance Arm The arm to connect the instrument tray 88.9. Instrument Tray Assistant device receptacle 88.10. X-Ray Viewer Advice to check the x-ray film 88.11. Extended Tray a tray which set some stuff during using. 88.12. Foot Control the foot control button to control the moving of dental chair 88.13. Cuspidor for patient to drain and clean 88.14. Post-mounted service console. The main control system of the dental unit 88.15. Chair Base the main base of the dental chair 88.16. Basic specification 88.16.1. Rated Voltage: A.C 220V ~230V 88.16.2. 50Hz Rated power: 1100W 88.16.3. Motor Voltage: DC5V

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117	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	54/92	2	1	1	Operation Theater lighting system :	29000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	92.2. Positioning: Wall Mounted 92.3. Light Source Type: Xenon 92.4. Color Specification: Single Colour 92.5. Intensity 1, 80,000 + 1, 80,000 Lux ±10% 92.6. Size of Light Field 12-30 cm 92.7. Colour Temperature 4000-5000 K 92.8. Colour Reduction Index 93 RA 92.9. LED Life >50000 Hrs. 92.10. Number of LED 126 +126 92.11. Diameter of Light 600mm x 2 92.12. Brightness Control Capacitive Touch Panel 92.13. Power Supply 220V/50Hz AC 92.14. Focusing Adjustable 92.15. Battery Backup Optional
118	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	54/99	5	2	3	C.R.O (20 MHz) :	105000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	99.2. Bandwidth: AC 10Hz-30MHz (-3dB)DC ~ 20MHz (-3dB) 99.3. Y Deflection: 5mV / div ~ 10V / div 99.4. Rise Time : < 18ns%Mag x 5Accuracy :< 5% 99.5. Max Input: 400V (DC+ACp-p) 99.6. Sweep Mode: Auto, Trig, Lock, Single 99.7. Sweep Rate: 0.1µs/div ~ 0.2s/div 1-2-5 20 steps, error ±5% 99.8. Trig Source: Y1, Y2, ALT, Line, Ext, TV-H, TV-V 99.9. Min Sync. Level: Trig DC ~ 30MHz%Int. 1 div, Ext. 0.2Vp-p%TV Int. 2div, Ext. 0.3Vp-p 99.10. Freq. Response: AC : 10Hz ~ MHz -3dB DC : 0 ~ 1MHz -3dB 99.11. Max. Input: 400V (DC+ACp-p) 99.12. Amplitude: 0.5Vp-p ±2% 99.13. Component Test (5030C Only): Capacitor, Coil, Zener, Diode 99.14. Min Input Level: TTL Level 99.15. Waveform: Rectangle 99.16. Frequency: 1 KHz ±2%
119	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	54/101	5	4	1	Function Generator :	8000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	101.2. Waveforms: Sine, Square, Triangle, Pulse, Ramp etc 101.3. Range (no load): from 1mVpp to 20Vpp 101.4. Accuracy: s ±5% 101.5. Resolution: 0.1mV/Frequency 101.6. Range of Sine Wave: 0.5Hz to 5MHz 101.7. Accuracy: s ±1% 101.8. Output Impedance: 50Ω 101.9. Attenuator: 20dB + 40dB 101.10. DC Offset: -10V to + 10V 101.11. Display: Frequency: 4-digits-LED, Amplitude: 3-digits-LED 101.12. Duty Cycle: from 10% to 90% 101.13. Rise time of Square: s35ns Frequency Counter 101.14. Frequency Range: 0.2Hz to 10MHz 101.15. Amplitude Range: 0.5Vp-p to 5Vp-p 101.16. Input Impedance: 10 kΩ 101.17. Power: AC 220V, 50Hz 101.18. Weight: 2.5kg (Appox) 101.19. Size: 300mm X 250mm X 100mm (±10%) Should be supplied with accessories 1. BNC to Alligator Clips 2. Power Cord 3. BNC to BNC cord

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120	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	54/104	2	0	2	Strain gauge with load cell :	2000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	104.2. Rated Load: 20Kg 104.3. Rated Output: 1.0 ±0.15mV/V 104.4. Zero Output: ±0.1mV/V 104.5. Creep: 0.03%F.S./30min 104.6. Input End: Red+, Black- 104.7. Output End: Green+, White- 104.8. Input Impedance: 1115±10% Ω
121	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	54/105	2	1	1	Allen Key set :	600	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	105.2. Generally conform to I.S 3082 - 1988 pipe 117.3 Sizes in mm: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 105.3. Made from high grade alloy Steel - Chrome Vanadium Molybdenum (S2) which Enables 30% higher torque as compared to Allen keys made from Cr - V Steel 104.4. Higher Hardness 57 - 62 HRC 105.5. Ball Head on one side to facilitate tightening & loosening of screws at 15 degree 105.6. Precision drawn and machined 105.7. Specially coated and Oiled for rust prevention
122	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	54/106	2	0	2	SWG :	600	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	106.2. Material: Stainless-X12CrMnNiN18-9-5 106.3. Thickness: 1.0mm 106.4. Hardness: 30-35HRC (specially hardened) 106.5. Finish: Polished2B/Antiglare Satin Chrome 106.6. Surface roughness: 0.6micronsmax 106.7. Range: 0-36SWG (incrementof1 gauge) 106.8. Measuring least count: 36swg (0.19mm) 106.9. Accuracy: Within+0.05mm 106.10. Should be supplied in Wooden/Plastic Box with proper cushioning
123	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	55/109	1	0	1	Laser Printer :	16000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	109.2. Type: Monochrome Multi functional Office Machine 109.3. Technology: Composite 109.4. Paper Size (Original/Image): A4/A4 and above 109.5. Minimum Speed per Minute in A4 Size: 28 CPM and above 109.6.Memory (RAM): 128 MB and above 109.7. Hard Disk: 0 GB 109.8. Duplexing Feature Availability: Yes 109.9. Network Feature Availability: Yes 109.10. Faxing Feature Availability: Yes 109.11. Document Feeder: ADF 109.12. Wi-Fi Availability: Yes 109.13. Tray Capacity: 250 Number 109.14. Yield (No. of copies)- M/c: 12000 Number 109.15. Mandatory BIS Registration:Yes
124	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	55/111	2	0	2	Microcontroller Trainer Kit :	16000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	111.2. Trainer should be RoHS compliant 111.3. Trainer should be compact, lightweight and housing should be made of ABS material. 111.4. Trainer should come with technical chart pasted on it to learn and understand more about applications and technical details. 111.5. Communication: USB 111.6. Programming mode: PC mode, Hex keypad mode 111.7. MCU: 8051 core 111.8. Crystal Frequency: 11.0592 MHz 111.9. DC Power Supplies: +12V, -12V, +5V & - 5V 111.10. Programmer: Ready to run programmer will program 8051 devices 111.11. Interconnection for modules: 2 mm patch cords and FRC cables 111.12. Online Product Manual: Should include Theory, procedure, reference, results etc. 111.13. Power Supply: 10V - 260VAC, 50Hz 111.14. Accessories: USB cable, Mains cord, Patch cords, 20 Pin FRC Cable and & Power Supply 111.15. Input Interface Module 15.1Keyboard: ASCII keyboard 15.2 LED'S: 12 Nos. 15.3Switches: 4Nos. 15.4Keypad: 4 X 4 matrix hex keypad 15.5Power Supply: From Microcontroller development platform 15.6Study Material: Online - Include theory, procedure, reference results, etc. 15.7Interface: 20 pin FRC cable 15.8Test points: 2 Nos. 111.16. Display Module 16.1Display: 16 x 2 character LCD 16.2Contrast control: 0 - 5.V (variable)
125	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	55/113	1	0	1	Needle destroyer :	800	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	113.2. Needle gets burnt, & syringe cut manually. 113.3. M.S. body powder coated box. 113.4. Sharp blade. 113.5. Regular model. 113.6. Fuse protection 2 amp 3/4" glass cartage type.

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126	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	55/114	1	0	1	Infusion pump :	25000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	114.2. Microprocessor Controlled. 114.3. Compatible with syringes of 5ml, 10/12ml, 30ml, 50/60ml. 114.4. Automatic Calibration of syringes 114.5.110mm LED/LCD colour display for better display 114.6. Modes of working: Flow Rate Vs Solution Volume & Time Vs Solution Volume 114.7. Built in rechargeable battery up to 6 hours (at 5ml/hrs for 50 ml syringe) 114.8. Automatically calculate time in rate –Volume Mode & Rate in Time –Volume Mode. 114.9. Alarm Function: Occlusion, Near Empty (3min), Low Battery, Infusion Over, Empty, Disengagement, Internal function, AC power Failure etc. 114.10. Three level of alarm sound: High Middle Low 114.11. Variable Occlusion limited pressure: High Middle and Low 114.12. KVO mode (User option available) 114.13. Purge/Bolus Function (Anti Bolus System) 114.14. Online Bolus 114.15. Bolus rate programmable – 0 -1800 ml/hr. Saves last even after AC power switch off 114.16. Last setting memorized 114.17. Standby Function 114.18. Online Changing Rate 114.19. Vertically stackable (3-4pumps) 114.20. Front Loading Syringe Technique 114.21. Long Power Cable (3 Mtr.) 114.22. Drug Library customized & adjustable
127	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	55/115	1	0	1	Syringe Pump :	25000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	115.2. Microprocessor Controlled. 115.3. Compatible with syringes of 5ml, 10/12ml, 30ml, 50/60ml. 115.4. Automatic Calibration of syringes 115.5.110mm LED/LCD colour display for better display 115.6. Modes of working: Flow Rate Vs Solution Volume & Time Vs Solution Volume 115.7. Built in rechargeable battery up to 6 hours (at 5ml/hrs for 50 ml syringe) 115.8. Automatically calculate time in rate –Volume Mode & Rate in Time –Volume Mode. 115.9. Alarm Function: Occlusion, Near Empty (3min), Low Battery, Infusion Over, Empty, Disengagement, Internal function, AC power Failure etc. 115.10. Three level of alarm sound: High Middle Low 115.11. Variable Occlusion limited pressure: High Middle and Low 115.12. KVO mode (User option available) 115.13. Purge/Bolus Function (Anti Bolus System) 115.14. Online Bolus 115.15. Bolus rate programmable – 0 -1800 ml/hr. Saves last even after AC power switch off 115.16. Last setting memorized 115.17. Standby Function 115.18. Online Changing Rate 115.19. Vertically stackable (3-4pumps) 115.20. Front Loading Syringe Technique 115.21. Long Power Cable (3 Mtr.) 115.22. Drug Library customized & adjustable
128	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	55/116	1	0	1	Ultrasound Doppler :	10000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	116.2. System must be a state of the art model & have all digital beam former technology with super computer processing and clinically proven imaging technologies. 116.3. System should be offered with the following applications: abdominal, obstetric/ gynaec. small
129	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	55/121	1	0	1	Oxygen concentration :	35000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Weight 13.6Kgs Size 360x220x580mm Continuous Flow Settings 0.125to5LPM Oxygen Concentration 90 %(+6.5%/-3%)at5LPM Oxygen Output Pressure 7Psi Sound Level -40dBA Power Specifications 230 VAC, 50Hz Power Consumption 290Watts Filters Cabinet, Compressor Intake end Bacteria
130	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	55/122	1	0	1	CPAP :	25000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	122.3. Type CPAP 122.4. Modes CPAP 122.5. Pressure (cmH2O) 4-20 122.6. Ramp time 0-60 122.7. Expiratory pressure release (min) Elexl-7level 122.8. Identification of Central Apnea yes 122.9. AS-Dry Drying technology yes 122.10. Auto On/Off yes 122.11. Leakage compensation yes 122.12. Manual pressure titration Optional 122.13. Therapy data storage Yes, SD card 122.14. Humidifier Heated humidification system, 5 levels adjustable 122.15. Alarms Power down, leakage, filter replacement 122.16. Screen size 3.5inch 122.17. Adapter AC input 100-240V, DC output: 24V

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131	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	55/123	1	0	1	BIPAP :	23500	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	123.2. Mode BiPAP S, T, ST, CPAP & SYG 123.3. CPAP Pressure (Cmi2O) 4 to 20 123.4. Initial Pressure (Cmi2O) 0.5 123.5. EPAP (Cmi2O) 4 - IPAP 123.6. IPAP (Cmi2O) 20/25/30 123.7. Rise Time Levels: 0, 1, 2 & 3 123.8. Ex. Releif Levels: 0, 1, 2 & 3 (0 is Off) 123.9. Humidification Levels: 0, 1, 2, 3 & 4 (0 is Off) 123.10. Ramp Time 5 - 45 min 123.11. Leah Compensation Yes (Automatic) 123.12. Altitude compensation Yes (Automatic) 123.13. Sound (CPAP) <=30dB 123.14. Weight 1.4 Kg 123.15. Power Adapter Input Voltage 100 - 240Y, 50-60hz, 1.5A 123.16. Device Type Ventilator, Class II Type BF
132	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	55/124	1	0	1	Nebulizer :	2000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	124.2. Power 230 or 120V AC, 50/60 Hz 124.3. Power Consumption Below 65W 124.4. Nebulizer flow 6L 124.5. Compressor flow 8-10L 124.6. Medication Capacity 6-8ml 124.7. Particle Size 0.5 to 6um 124.8. MMAD 2.44um 124.9. Average Mobilization Rate 0.4ml/min 124.10. Remain Amount 0.15ml 124.11. Noise Level Below 55 dBA 124.12. Dimension (L* W* H) 181*150*101 mm 124.13. Products Weight 1.4 kg 124.14. Compressor Pressure Range 30 to 38 PSI/ 280 to 350 kpa / 2.8-3.5 bar 124.15. Operation Pressure Range 8 to 16 psi/ 100 to 150 Kpa/ 1-1.5 bar 124.16. Operating Temperating Range 10 C to 40 C / (50 to 104 F) 124.17. Operation Humidity 10% to 95% RH 124.18. Storage Temperature Range -20 C to 70 C (-4 to 158 F) 124.19. Storage Humidity Range 10% to 95% RH
133	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	55/125	1	0	1	Flow meter :	3500	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	125.2. Usage/Application Oxygen Gas 125.3. Display Analog 125.4. Flow Range 1-15L/min 125.5. Output Pressure 0.2-0.3Mpa 125.6. Size standard 125.7. Gas Type Oxygen
134	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	55/126	1	0	1	Photo Therapy :	40000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	126.2. Voltage 110 -220 V 126.3. Frequency 50 Hz 126.4. Display LCD 126.5. Weight 10 - 30 Kg 126.6. Number Of Wheel 4 126.7. Is It Portable Portable 127.2. A radiant warmer is used to keep the patient's core temperature stable at 370C. 127.3. Eligibility Criteria: - Should be FDA, /CE approved product - Manufacturer should be ISO certified for quality standards. - Certified to be compliant with IEC 60601-2-21, Medical Electrical Equipment's part-2-21 particular requirements for Electrical Safety of Infant Radiant Warmers. - Should have local service facility. The service provider should have the necessary equipment's recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual. 127.4. Technical points: 1. It should have facility to display both skin and air (ambient) temperature separately. 2. Should have user friendly touch panel control. 3. It should have ceramic infra-Red heater. 4. It should have audio visual alarm facility for overheating beyond set temperature range. 5. It should have alarm facility for patient temperature less than or greater than the required temperature i.e. above or below the set range. 6. It should rotate and swivel in different direction, so as to allow taking X-ray. 7. The light should be dazzle free. 8. It should have alarm for power failure. 9. It should have alarm for heater failure. 10. It should have alarm for probe failure. 11. It should have time out alarm in manual mode. 12. It should have inbuilt or provided along rechargeable battery to run equipment in case of power failure for at least 1/2hour.
135	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	55/127	1	0	1	Radiant warmer :	40000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	127.2. A radiant warmer is used to keep the patient's core temperature stable at 370C. 127.3. Eligibility Criteria: - Should be FDA, /CE approved product - Manufacturer should be ISO certified for quality standards. - Certified to be compliant with IEC 60601-2-21, Medical Electrical Equipment's part-2-21 particular requirements for Electrical Safety of Infant Radiant Warmers. - Should have local service facility. The service provider should have the necessary equipment's recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual. 127.4. Technical points: 1. It should have facility to display both skin and air (ambient) temperature separately. 2. Should have user friendly touch panel control. 3. It should have ceramic infra-Red heater. 4. It should have audio visual alarm facility for overheating beyond set temperature range. 5. It should have alarm facility for patient temperature less than or greater than the required temperature i.e. above or below the set range. 6. It should rotate and swivel in different direction, so as to allow taking X-ray. 7. The light should be dazzle free. 8. It should have alarm for power failure. 9. It should have alarm for heater failure. 10. It should have alarm for probe failure. 11. It should have time out alarm in manual mode. 12. It should have inbuilt or provided along rechargeable battery to run equipment in case of power failure for at least 1/2hour.

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136	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	55/128	1	0	1	Biolyes Operator :	0	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Pressure Gauges--Two each for O & N O cylinders pressure22and one each for O & N O line pressure22 Oxygen FailureWarning Device--Pneumatic device which activates audible alarm (for minimum 10 seconds) when Oxygen supply pressure falls to 205 kPa. Vaporizers-- Space for three Vaporizers provided as per standard. Oxygen Flush--Emergency Oxygen flush outlet button at table level. (36-50 lit./min.) Change Over Unit--Change over unit provided for open or close circuit Nitrous Cut-off--Nitrous cut-off system prevents risk of administering 100% Nitrous Oxide in absence of Oxygen pressure
137	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	55/129	1	0	1	OT Table :	76000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	129.2. Top dimension L 1900 x W 520 mm 129.3. Height adjustment 762 mm 129.4. Trendelenburg 30 degree 129.5. Lateral tilts 20 degree 129.6. Kidney elevator 150 mm 129.7. Patient Weight Capacity 110 kgs
138	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	55/130	1	0	1	ICU cot :	65000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	130.2. Electrically operated with Remote control, Back rest (0 - 77°), Foot rest (0-35°), Height adjustment, Trendelenburg Tilting (0-18 °) and Reverse Trendelenburg (0-18°) 130.3. Fowler and vascular positions, Manual Knee Mechanism with Three positions 130.4. Size: L 2285mmXW975mmX H (490mm-890 mm), Bed Extension L 180 mm. 130.5. Epoxy powder coated Framework with X-ray permeable Backrest, X-ray cassette holder 130.6. All function controlled with Linak (Denmark) power device. 130.7. Control Panel - Remote control unit / Nurse Control panel which can lock Patient remote control usage 130.8. Electronic CPR-with Nurse Control panel, Manual CPR -with handles on both side of back rest (for flat position of bed backrest for emergency) 130.9. Removable fixed head/foot boards with plastic protection bumpers (dia 90 mm) made from Aluminum and HPL material 130.10. Foldable Side rails made from Aluminum and HPL material 130.11. 360° movable castors with central locking (150 mm), 5th CASTOR for easy movement of bed (125 mm). 130.12. Emergency battery backup. 130.13. Belt hook, accessories slots, urine bag holder, Height adjustable IV pole- 2 hooks. 130.14. Weighting scale for measuring weight of patient (0-250 Kgs), Tare Function, graduation 100 grams, Alarm for patient's imbalance, activation button.
139	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	55/131	1	0	1	Phone cardiogram :	0	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	131.1. PCG with 5 Filters /USB 131.2. Phonocardiogram Amplifier with 5 Filter Trainers 131.3. Real time amplified PCG output up to 15Vpp±, PCG Transducer. 131.4. Adjustable Gain & Adjustable Audio with Head Phone. 131.5. Rotary switches to select 5 positions Filter. 131.6. Filter Range 25Hz to 1400Hz±, Heart beat indication. 131.7. Output PCG through 4mm socket. 131.8. Test points On the Top of Instrument Output through 2mm socket. 131.9. Power Supply 230V, 50Hz, Dimensions 250 X 75 X 250 mm ±
140	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	55/132	1	0	1	Traction machine :	13650	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	132.2. Other Name: Programmer Auto Traction 132.3. Application/Use: Physio Treatment 132.4. Display: LCD Display
141	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	55/134	1	0	1	EMG :	150000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	134.2. Type Analog, Digital 134.3. Number of Channels 2 134.4. Standard Tests H Reflex 134.5. Accuracy (+/-) 0.2% 134.6. Repeat ability (+/-) 0.1% 134.7. MUP Selection Automatic 134.8. Power supply 85-230 AC
142	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	55/135	1	0	1	TMT :	195000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	PC based technology, WINDOWS 7/8 software ensures ease of use Digital Signal Acquisition Module eliminates noise & gives distortion free ECG signal Simultaneous acquisition & display of 12 lead Raw ECG during the Resting & Exercise ECG mode Web enabled software allows sending images via email Full disclosure of all 12 leads for beat-by-beat analysis & extended documentation User configured Multiple Report Format for Resting & Exercise ECG The final report includes information on Blood Pressure, Heart Rate, Treadmill Speed/Grade, ST Trends relating to stage wise & recovery phase Facility to view, compare & print, Average Complex, ST graphs & tables of all leads for all stages Laser printer provides high quality stage wise printouts on ordinary A4 sized paper saving on cost of consumables Fully interfaced indigenous treadmill

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143	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	55/139	2	0	2	Human body charts :	500	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	Laminated & Attached with Strips OR Laminated and Framed on Board <ul style="list-style-type: none"> • 9799 Shoulder & Elbow • 9790 Hand & Wrist (Ligaments & Construction) • 9780 Hip & Knee • 9795 Foot & Ankle • 9850 The Vertebral Column • 9991 The Skull • 9990 Head & Neck • 9878 Anatomy of the Heart • 8946 Muscular System • 8943 The Skeletal System • 8949 The Nervous System • 8026 The Autonomic Nervous System • 8952 The Vascular System-And Viscera • 8937 The Lymphatic System • 9766 The Respiratory System • 9652 The Female Reproductive System • 9672 The Male Reproductive System • 9859 The Digestive System • 9796 The Urinary Tract • 9720 The Endocrine System • 9920 The Brain • 8023 The Heart • 9691 The Eye • 9960 The Liver • 9951 The Kidney • 8024 The Spinal Nerves
144	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	56/152	4	2	2	B.P. Apparatus (Sphygmo manometer)	6000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	152.2. Power Source: manual 152.3. Accuracy: 0.02 (pressure) 152.4. Cuff Circumference: 45 cm 152.5. Auto Shut Off: no 152.6. Size: 120x11x116 mm 152.7. Features: Semi-automatic 152.8. Net weight: 310 g (exclude batteries) 152.9. Batteries: Alkaline batteries
145	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	56/155	2	1	1	Muscle Stimulator :	3000	1	Direct Purchase	state procurement rule	YES	YES	Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	155.2. Nerve & Muscle Stimulator Technical Specifications: 155.2.1. Main power supply - 230 Vac, 50-60Hz, ±10%- 115 Vac, 50-60 Hz, ±10% 155.2.2. Channels - 4 155.2.3. Pulse Width - 50 S – 350 µS (10 µS / step) 155.2.4. Pulse rate - 1 – 200 Hz 155.2.5. Contraction Time - 6 sec, 9 sec. 155.2.6. Relaxation Time - 2 sec., 3 sec., 4sec. 155.2.7. Waveform - Symmetrical biphasic square pulse. 155.2.8. Timer - 1 – 60 min. (1 min. / step). 155.2.9. Modes - Continuous, Burst, Ramp, Wide Low Freq, Narrow Low Frequency, Auto All. 155.3. Nerve & Muscle Stimulator Special Features: 155.3.1. Microcomputer Controlled Digital unit. 155.3.2.4 Channel / 8 Electrodes. 155.3.3.7 Preset programs for easy selection. 155.3.4.4 Body areas treatment simultaneously. 155.3.5.7 Segment Digital Display.

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146	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	56/158	1	0	1	Refrigeration and Air conditioning Tutor :	125000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	158.2. Refrigeration Tutor 158.2.1. Material: Mild steel and Steel 158.2.2. Shape: Square 158.2.3. Usage/Application: ENGINEERING LAB EQUIPMENT 158.2.4. Medium Used: REFRIGERANT 158.3. Air conditioning Tutor 158.4. Experimentation /learning objectives: 158.5. To study the Vapour Compression air conditioning cycle. 158.6. To Calculate Co-efficient of performance (C.O.P) utilities required : 158.7. Electric supply Single Phase, 220 V AC, 50 Hz., 5-15 amp combined socket with earth connection. Earth voltage should be less than 5 volts. 158.8. Floor area: 1.5 m x 1.0 technical details: 158.9. Compressor: Hermetically sealed compressor, reciprocating type. Capacity 1 Ton, Emerson Copeland makes. 158.10. Condenser: Air cooled compatible to compressor 158.11. Condenser Cooling Fan: Compatible capacity with permanent lubricated motor. 158.12. Pressure Gauges: 2 Nos. (For suction & discharge pressure) 158.13. Evaporator: Made of copper tube and aluminum fins fitted with compatible capacity fan. 158.14. Safety Control: over load and over current protection for Compressor with Time delay circuit & Low/high voltage auto-cut. 158.15. Expansion Device: Capillary Tube compatible capacity. 158.16. Temperature Sensor: RTD PT-100 Type. 158.17. Control Panel comprises of: Digital Voltmeter: 0-500 V Digital Ammeter: 0-10.99Amm
147	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	56/159	2	0	2	Air conditioners :	90000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	159.2. Type: Split AC 159.3. Star Rating: 3 Star 159.4. Air Circulation: 16.2 m3/min 159.5. Cooling Capacity: 5.00 kW 159.6. Frequency: 50 Hz 159.7. Indoor Dimension: 943 x 299 x 352 mm 159.8. Operating Current: 7.8 A 159.9. Outdoor Dimension: 852 x 626 x 358 mm 159.10. Refrigerant Type: R410A 159.11. Voltage Range: 220-240 V 159.12. Power Consumption: 1,780 W 159.13. Moisture Removal Liter Hour: 2 l/hr 159.14. Auto Restart: Yes 159.15. Outdoor Noise Level: 53 dBA 159.16. Fast Cool: Yes 159.17. Low Ambient Temperature: 15-52 degree C 159.18. Indoor Net Weight: 9.8 kg 159.19. Outdoor Net Weight: 27.4 kg 159.20. Outdoor Gross Weight: 31.8 kg 159.21. Indoor Gross Weight: 11.4 kg
148	Goods	Equipment	054	TECHNICIAN MEDICAL ELECTRONICS	56/162	1	0	1	DARK ROOM ACCESSORIES: h) Lead protection screen :	25000	1	Limited enquiry (quotation)	state procurement rule	YES	YES	Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	162. h.2. Application: Hospital 162. h.3. Length: 6 feet 162. h.4. Width: 3 feet 162. h.5. Lead Equivalence: 2.0 mm 162. h.6. Minimum Order Quantity: 1 Unit
									Total cost for Machine & Equipment	8647800														
									Civil Work	303000														
									ICT Infrastructure	886000						Limited enquiry (quotation)	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	
									TOT	302000														
									Books	303000						Direct Purchase	National	17-05-2022	25-05-2022	07-06-2022	10-06-2022	3 months	12-09-2022	
									Facilities for Trainees	152000														
									Misc	60000														
									Audit Fee															
									TOTAL PLAN	10653800														


 Principal
 ITI Thane Girls