

REVISED Procurement Plan (GITI KUND MANETHI)

I. Total Planned Procurement Amount (Year 1 to Year 3): **150.00 (in INR lakh) (150 lakh - Already Purchased and spend 15.77964 Lakh = 134.22036 lakh)**
 ii. View more details of procurement of items / Goods / services etc. as detailed below:

A. Items to be procured in Year-1 (FY-2020-21)
1. Minor civil work- (Rs. 0.6 lakh)

Sr. No.	Name of Items	Specifications	Trade/Course for which it is required	Total Required	Rate/Unit (in INR lakh)	Total (in INR lakh)	Method of Procurement (e.g. Shopping/Competitive Bidding)
1	Wooden platform for Machines 7' x 2.5'		Tuner	16		0.6	Competitive Bidding/Shopping
2	Wooden platform for Machines 4' x 2.5'		Tuner	04			

2. Equipment Furniture and other goods: 18 lakh (18 lakh - Already Purchased of 14 ,27,291 rs = 3,72,709 lakh .)

Sr. No.	Name of Items	Specifications	Trade/Course for which it is required	Total Required	Rate/Unit (in INR lakh)	Total (in INR lakh)	Method of Procurement (e.g. Shopping/Competitive Bidding)
1	Pigeon hole cabinet	10 COMPARTMENT WITH 20 GAUGE Width (cm)-90.5, height-185 cm , depth -40 cm , Door Handle Type-swing , Lock Type-Keyed,Method of Construction- Welded, dual color deco paint. CRCA Steel	Sewing Technology	1 Nos.	0.25	0.25000	Competitive Bidding
2	Desktop Computer	Processor Generation -10 Number of Cores per Processor -10 Motherboard Chipset Series Intel Q Series Chipset Number Intel Q 470 Expansion Slots (PCIe x 1) (Number) 1 Expansion Slots (PCIe x 4) (Number) 0 Expansion Slots (PCIe x 16) (Number) 1 Expansion Slots (PCI) (Number) 1 Expansion Slots (M Dot 2) 1 Processor Processor Make Intel Processor Generation 10 Number of Cores per Processor 10 Processor Base Frequency (GHz) 2.8 Processor Description Intel Core i9 Processor Number Intel Core i9 10900 Out of Band Management Intel vPro Cache (MB) 20 Graphics Graphics Type Integrated Graphic Card Description Na Size of Memory in Case of Dedicated Graphic Card (GB) 0 Size of VRAM in case of Integrated Graphics (MB) 0 Operating System Operating System (Factory Pre-Loaded) Linux Recovery Image Media CD from the OEM Memory Type of RAM DDR4 RAM Size (GB) 64 RAM Speed (MHz) 2666 Total Numbers of DIMM Slots Available 4 Number of DIMM Slots populated 2 RAM Expandability up to(using spare DIMM Slots in GB) 128 Storage Total Number of Internal Bays available 3 Number of 2 point 5 inches Internal Bays 2 Number of 3 point 5 inches Internal Bays 1 Number of 2 point 5 Inches Internal Bays Populated 0 Number of 3 point 5 Inches Internal Bays Populated 1 Type of Drives used to populate the Internal Bays HDD Number of Internal Bays populated with HDD 1 Capacity of each HDD (GB) 1000 @7200 rpm Total HDD Capacity (GB) 1000 Number of Internal Bays populated with SSD 0 Capacity of each SSD (GB) 0 Total SSD Capacity (GB) 0 Number of Internal Bays populated with SSHD 0 Capacity of each SSHD (GB) NA Total SSHD Capacity in addition to 8 GB Flash (GB) 0 Number of Internal Bays populated with SSED 0	Sewing Technology	1 Nos.	1.00000	1.00000	
3	Trial room with arrangements of hanging Dresses	CABIN SIZE-HEIGHT ** WIDTH-LENGTH 4' MIRROR SIZE-*** INNER WALL COVERED WITH 1 SIDE MIRROR MIRROR THICKNESS 6 MM AND 1 SIDE DOOR WITH INNER AND OUTER SIDE LATCH. MATERIAL -PUPR BOARD-23 MM THICKNESS	Sewing Technology	01No.	0.45	0.45000	Competitive Bidding
4	Pinking Shears	material - Stainless Steel , size - 9 inch , Distance between the teeth for about 5mm, comfortable grip handles .	Sewing Technology	01No.	0.03	0.01380	Competitive Bidding
5	Pattern Punch	Primary material -STAINLESS STEEL, Capacity -5 Sheet Punch, creating precise 1/2" holes, Dimensions :-(L*W)19 x 8.5 cm Punching Diameter (mm)-5.5 Spring Loaded and Retractable-yes Removable chip tray- no	Sewing Technology	04No.	0.03	0.01200	Competitive Bidding
6	Book Shelf	book self with glass panel 6*3' - glass door almirah size 6-1/2 **3' 1-1/2' door made of 18 g . body , shelves and partition made of 20 g . 4 shelves 5 compartment properly welded and riveted . Three hinges on each door.The lock with 6 keys (duplicate keys), 3 ways bolting device of 9 mm dia rod and central bolting device with 20g , sheet 4 mm glass fitted on door .dual color deco paint, M.S. sheets pipe rods and angles used in manufacturing the item should be ISI marked.	Sewing Technology	02No.	0.3	0.06000	Competitive Bidding
7	Air conditioner	SPLIT AC 2 TON, Technology - Inverter AC Full Load Capacity (100%) - minimum-6600 W Half Load Capacity (50%) minimum- 3300 W Compressor Type- Twin Rotary with copper coil Refrigerant Gas -R32 Condenser Coil-Copper Rating- 5 Star Power Supply [V/Hz/Ph]- 230 / 50 / 1 Phase Max operating Ambient Temp Range [Deg C]- 52° C Multi-Adjustable Cooling - variable Filter -Triple Filter Protection FEATURES- Sleep mode,Auto Start, Temp. Display, Timer / Fan speed control,Eco saving, turbo cooling Accessories / Installation kit with each split air conditioner Cu connecting pipe (for Wall Mount type upto 2 Ton),Remote control,2 nos. of battery for each All with outdoor unit stand and installation	Turner	01 no	0.6	0.60000	Competitive Bidding

8	Tap Wrench	Type - Adjustable Capacity M 6 to M12 Socket type - square Length - minimum 200 mm Handle - knurled both side Material - steel	Turner	6 nos	0.0400	0.02400	Competitive Bidding
9	Morse Taper Plug Gauge and Ring Gauge	No- 0 to 7 MT Accuracy +, -0.004 mm (material- OHNS alloy steel) Hardness- GH - 2 HRC Taper FOR Plug Gauge and Ring Gauge D 0.3561" 0.1520" 2" 1 0.4750" 0.3690" 2-1/8" 2 0.7500" 0.5720" 2-9/16" 3 0.9500" 0.7900" 3-3/16" 4 1.2310" 1.0200" 4-1/16" 5 1.7480" 1.4750" 5-3/16" 6 2.4940" 2.1160" 7-1/4" 7 3.2700" 2.7500" 10"	Turner	1 set each	0.04313	0.04313	Competitive Bidding
10	Combination Set	Complete set 300 mm Blade 300mm Blade width-25mm Graduation Types-- Metric and inches. Linear least count- 0.5 mm and 1/16" Blade material- stainless steel (Chrome plated hardened engraved blade) Accuracy length- +0.005 / -0.0035, +0.13mm / -0.09mm Square head used to set the rule- 90 degree, 45 degree to an edge of workpiece Material- Cast iron Centre head- used to locate centre of round workpiece Material- Cast iron Protector head- used to set rule as desired angle on as of workpiece Angular least count- 1 degree Material- Cast iron	Turner	4 nos	0.04490	0.17600	Competitive Bidding
11	Calliper Transfer Inside	Calliper Size - 150 mm Type - firm joint Opening / measuring capacity - 150 mm A screw attaches a small auxiliary leaf to one of the calliper legs. Material- Mild steel (Causes point hardend & tempered)	Turner	3 nos	0.00092	0.00276	Competitive Bidding
12	Digital Multifunction Laser Printer	Printer Type- Laser, Functionality- All-in-One (Print, Scan, Copy) Printer Output- Mono (Black) Connectivity- USB 2.0, Wi-Fi, Google Cloud Print, Apple AirPrint, Mopria Display panel- 6.9cm BW LCD Compatibility (32 / 64bit) Windows 10, 8.1, & 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(*) Print Speed Memo- 27 Pages per minute (A4) Continuous Copying Capacity- Maximum 999 copies ; FPOT- 6.0s ; Print Language- UFR II LT, PCL 6; Device Memory - 512MB; Duplex Printing- Yes Auto Ideal usage - Office; Monthly Duty Cycle- 15000 pages Type- Color scanner Maximum Scan Size- Platen glass: up to 216 x 297 mm, Feeder*1: up to 216 x 356 mm Page size supported- A4, B5, A5, Legal, Letter, Statement, Executive, Government Letter, Government Legal, Foodscap, Indian Legal Custom (Minimum 76.2 x 216mm to Maximum 216 x 356mm) Print resolution - 600 x 600dpi, Scan Resolution Optical - 600 x 600 dpi/Feeder*1: up to 300 x 300 dpi Auto Document Feeder (ADF) 35-sheet Wireless Support Power Supply - 220 to 240 V, 50/60 Hz Consumes Power - 1,150 W or less, sleep mode Approx. 4.2 W Environmental Conditions-Temperature: 10 to 30°C	Turner	1 Nos.	0.25850	0.25850	Competitive Bidding
13	File flat smooth	File Length- 250 mm Width of file - 25 mm Thickness- 5.5 mm Total length of file with handle - 315 mm Grade - smooth Double cut Taper edges towards front allow access into tight corners and angles material- High carbon steel	Turner	1 no	0.00345	0.0207	Competitive Bidding
13	Machine vice	Types of Machine vices- Swivel base Size of the Machine Vice - 100 mm Clamping range of Machine vice - 0-100 mm Material of the base and sliding and fixed jaws - cast iron Jaw width- 100 mm Jaw depth- 38 mm Thickness of jaw plate minimum - 10 mm Swivel base - Rotation along 360 degree Material of Spindle screw - Steel having a minimum tensile strength of 600 Mpa Material for Spindle nut - Phosphor bronze Material for Jaw inserts - Steel, hardened Handle length 300 mm Material for Handle- Mild Steel Overall Weight of the Machine Vice (Minimum) -15 kilogram Machine vices shall be coated with a suitable rust preventive coating and packed in such a way as not to be affected by the exposure to atmosphere	Turner	1 no	0.12480	0.12480	Competitive Bidding
14	Cubic cabin for computer lab	Size- 900 x 600 x 750 mm (L x W x h) Cabin total height - 1200 mm Top - 25 mm Board material- PUPB Thickness Modesty - 18 mm Thick leg 25 mm thick x 600 mm (W) Divider 18 mm thick x 600 mm (W) with installation in lab	Turner	10 nos cabin	0.0345	0.345	Competitive Bidding
15	Calliper Inside	Calliper Size - 150 mm Type - Spring joint with adjustment screw offers finger setting Opening / measuring capacity - 150 mm Material- Mild steel (Causes point hardend & tempered)		13 nos	0.0092	0.120	Competitive Bidding
16	Machine Chaser	M-12 to M-22 std. Series Type - metric set (M12 x 1.5 pitch, M14 x 1.75pitch, M16 x 2pitch, M18 x 2.5pitch, M20 x 2.5pitch, M22 x 3 Pitch) Material- High speed steel	Turner	1set	0.1248	0.125	Competitive Bidding
17	Marking Table	Size -120X120 cm (L x W) Surface Finish- Hand scraped Types- Hole Material- Cast iron Fabricated stand square pipe 2 x 2" thickness approx. - 3to 5 mm with leveling screw. Stand material- mild steel Overall working height with stand and leveling screw will be - (minimum) 900 mm reduce vibration - option for vibration pad top surface protection- Resine cover Computerized calibration certificate to NPL Govt. of India, New Delhi or equivalent agency along with	Turner	1 no	0.0100	0.0100	Competitive Bidding
18	Expanding mandrel	Size- 1/2inch to 1 inch 5 mandries and 5 slives Rang -1/2-9/16", 9/16-21/32", 21/32-3/4", 3/4-7/8", 7/8-1" Material- Alloy steel	Turner	1 set			Competitive Bidding

20	Thread mandrel	Thread Type - metric Metric: M6 x 0.5, M6 x 1, M10x 1.5, M12 x 1.75, M16x 2, M20 x 2.5, M24 x 3 Material: Alloy steel	Turner	1 no.			Competitive Bidding
21	Plain mandrel	Lather mandrel size: 5/8" x 12" Standard taper: 0.0005" per 1" Material: Alloy steel	Turner	1 NO	0.0975	0.098	Competitive Bidding
21	Step mandrel	Lang: 7.5" Tang: 15/8x17/8" Range: 2" down 1" Step: 4 Material: Alloy steel	Turner	1 NO			Competitive Bidding
22	Computer chair	Seat & Back of the computer chair shall be made of plywood photoestered with fabric and moulded polyurethane foam/mid Back size - 45 cm (W) x 53 cm(H) Seat size shall be 50(W) and 48 cm (D) . The polyurethane foam is to be moulded with density = 45.2 g/m ³ . Armrests (fixed) shall be scratch and weather resistant made of black integral skin polyurethane reinforced with M.S. insert . Should have 360 degrees revolving facility. Back tilt facility Tilting position locking facility Height adjustment facility.	Turner	10 Nos	0.0345	0.345	Competitive Bidding
23	Smart TV	Specifications:- Screen Size (Inches) 55 Type of Display Technology- LED Backlit LCD Resolution (Pixels) - (3840x2160) UHD HDR 10+Support, Category- Smart Static contrast Ratio - 4500 : 1 Typical Brightness - 200 - 299 Screen Mirroring - Yes Mount Type both table and wall mount Inbuilt Speakers Yes Wattage of Speakers 10W x2 Audio- Dolby Digital Plus, Adaptive Sound Power Consumption (Watts) - 145, Eco Sensor Power & Eco Solution- Power Supply AC220-240V 50/60Hz Ports & Connectivity:- Number of HDMI Ports - 3 Number of USB Ports - 1 Built-in Wi-Fi Wi-Fi Direct RF Input Accessories :- Remote Control, Connecting Cable, Batteries Optional Stand Support, Vesa Wall Mount Support Generic Minimum Operating Temperature (Degree C) - 0 Maximum Operating Temperature (Degree C) - 40 Dimensions (Length x Breadth x Depth) (mm x mm x mm) 1230.5 x 783.3 x 250.2 Approx. Weight (Kg) 14.2	Turner	1 Nos.	0.6945	0.695	Competitive Bidding
24	Computer Table	Computer table size 48" x 24" x 30". Frame made of 1" sq. Pipe of 3kg. One drawer fitted on right side and made of 22g. Sheet. Top made of 18mm. Board with 18mm sun mica. One sliding tray for key board & two shelves under the top made of 18mm. Board. Both side of table covered with dual color paint. complete with drawers & shelf to accommodate UPS & CPU. ISI marked boards, angles, sheets.	Turner	10	0.0345	0.345	Competitive Bidding
TOTAL							4 Lakh

3. Training of Teaching and management staff :- Rs. 1.5 Lakh (1.5 lakh - already spend on training 34716 = 1,15,284 rs.)

Sr. No.	Name of Items	Specifications	Trade/Course for which it is required	Total Required	Rate/Unit t (in INR lakh)	Total (in INR lakh)	Method of Procurement (e.g. Shopping/Competitive Bidding)
1	Hiring of motivational speaker/Professional Trainer/Expert for training of trainer's	Topic to be covered in Training • Capacity Building • Positive attitude and aptitude • Initiative, creative and innovative approach • Presentation preparation • Personality development and body language • Time management and planning	All Technical and administrative staff	30-50 HRS	2500/-hr	1.5	Competitive Bidding

4. Information & communication Technology (ICT) Infrastructure: (Rs. 1.0 Lakh)

Sr. No.	Name of Items	Specifications	Trade/Course for which it is required	Total Required	Rate/Unit t (in INR lakh)	Total (in INR lakh)	Method of Procurement (e.g. Shopping/Competitive Bidding)
1	Making campus Wi-Fi		Institute campus	---		1.0	Competitive Bidding/Shopping

5. Purchase of books and other learning materials :- (Rs. 0.6 Lakh)

Sr. No.	Name of Items	Specifications	Trade/Course for which it is required	Total Required	Rate/Unit t (in INR lakh)	Total (in INR lakh)	Method of Procurement (e.g. Shopping/Competitive Bidding)
1	Turner Wall Chart - 1 Year (English)		Turner	1 no	0.00208	0.00208	From NMI
2	Turner Wall Chart - 2 Year (English)		Turner	1 no	0.00019	0.00019	From NMI
3	Turner -Trade Theory - 1st Year (Volume I of II) - Hindi - NSQF LEVEL 5		Turner	10 Nos	0.00060	0.00600	From NMI
4	Turner -Trade Theory - 1st Year (Volume - II of II) - NSQF LEVEL 5		Turner	10 nos	0.0145	0.1450	From NMI
5	Turner -Trade Theory - 2nd Year (Volume I of II) - NSQF LEVEL 5		Turner	10 Nos	0.0145	0.1450	From NMI
6	Turner -Trade Theory - 2nd Year (Volume II of II) - NSQF LEVEL 5		Turner	10 nos	0.00023	0.00023	From NMI
7	Turner -Trade Practical - 1st Year (Volume - I of II) - NSQF LEVEL 5		Turner	10 nos	0.0115	0.1150	From NMI
8	Turner -Trade Practical - 1st Year (Volume - II of II) - NSQF LEVEL 5		Turner	10 nos	0.0130	0.1300	From NMI
9	Turner -Trade Practical - 2nd Year (Volume - I of II) - Hindi - NSQF LEVEL 5		Turner	10 nos	0.0170	0.1700	From NMI
10	Turner -Trade Practical - 2nd Year (Volume - I of II) - Hindi - NSQF LEVEL 5		Turner	10 nos	0.0170	0.1700	From NMI
11	Engineering Drawing Group 1B1 (Filter) One Year or Two Year Trade		ED	10 nos	0.0195	0.1950	From NMI
12	Workshop Calculation & Science (Turner) 1st Year For 2 Year Trades		WCS	10 nos	0.0105	0.1050	From NMI
13	Employability Skills Student Workbook Part - 1 - 62 hrs (Hindi) 1st Year		ES	40 Nos	0.0110	0.4400	From NMI
14	Employability Skills Student Workbook Part - 2 - 58 hrs (Hindi) 1st Year		ES	40 Nos	0.0080	0.3200	From NMI
15	Employability Skills Student Workbook Part - 1 - 62 hrs (English) 1st Year		ES	10 Nos	0.0120	0.1200	From NMI
16	Employability Skills Student Workbook Part - 2 - 58 hrs (English) 1st Year		ES	10 Nos	0.0145	0.1450	From NMI
17	Sewing Technology - Trade Theory - (Volume - I of II) - NSQF LEVEL 4		Sewing Technology	5 nos	0.00300	0.01500	From NMI
18	Sewing Technology - Trade Theory - (Volume - II of II) - NSQF LEVEL 4		Sewing Technology	5 Nos	0.00240	0.01200	From NMI
19	Sewing Technology - Trade Practical - (Volume - I of II) - NSQF LEVEL 4		Sewing Technology	5 Nos	0.00240	0.01200	From NMI

20	Sewing Technology - Trade Practical (Volume - II of II) - NSQF LEVEL 4	Sewing Technology	5 Nos	0.00145	0.00725	From NMI
21	Cutting & Sewing - Wall Charts (English)	Sewing Technology	2 Nos	0.00145	0.00290	From NMI

6. Facilities for Trainees:- Rs. 4.5 Lakhs (4.5 lakh - already spend 1,15,687 = 3,34,313 rs)

Sr.	Name of Items	Specifications	Trade/Course for which it is required	Total	Rate/Unit	Total (in INR lakh)	Method of Procurement (e.g. Shopping/Competitive Bidding)
No.			for which it is required	Required	t (in INR lakh)	INR lakh	
1	Reimbursement of transport charges to women trainees and hiring of vehicle for transportation of trainees to industry premises for D.J.T.		All trainees of institute				
2	Hiring of motivational speaker/Professional trainer/Expert for training of trainees	Topic to be covered in Training <ul style="list-style-type: none"> Motivation and behavior Communication skill Personality development Preparation for Interview and Group discussion Improvement in Confidence Team work Discipline Carrier development Problem solving and decision making Basic knowledge about industry (Safety, safety, PPEs, SS, SR, 7 waste etc.) 	All trainees of institute	30-50 HRS	2500/hr	4.5	Competitive Bidding/Shopping

B. Items to be procured in Year-2 (FY-2021-22)

1. Minor civil work:-(Rs. 0.9 lakhs)

Sr. No.	Name of Items	Specifications	Trade/Course for which it is required	Total Required	Rate/Unit (in INR lakh)	Total (in INR lakh)	Method of Procurement (e.g. Shopping/Competitive Bidding)
1	Cubic cabin for CNC lab made of PLUPB board - Top-25 mm thick modesty 18 mm thick. Leg - 25 mm thick divider 18 mm thick. Size - 100(W)X400(D)X750(H) mm. Cabin total height - 1200 mm with installation in CNC lab.		Tuner	10	0.09000	0.90000	Competitive Bidding/Shopping
2	Renovation work/ fixing of aluminium Aluminium in sewing technology trade.		Sewing Technology				

2. Equipment Furniture and other goods:-(Rs. 60 Lakh)

Sr. No.	Name of Items	Specifications	Trade/Course for which it is required	Total Required	Rate/Unit (in INR lakh)	Total (in INR lakh)	Method of Procurement (e.g. Shopping/Competitive Bidding)
1.	Electric Manicure Kit	6 PROFESSIONAL HEADS ADJUSTABLE SPEED SETTINGS TWO-WAY ROTATION MAGNETIC STORAGE CASE Material- ACRYLONITRILE BUTADIENE STYRENE (ABS plastic) 6 Attachment Power - 3.7V/2.0W USB Cable 1 CHROM HEAD NAIL BUFFER 2 EMERY HEAD COARSE (SHORTEN AND SHAPE) 3 NEEDLE EMERY HEAD (PRODRIVEN CLEANER) 4 TUNGSTEN STEEL HEAD (POLISH REMOVER) 5 EMERY HEAD FINE (SHORTEN AND SHAPE) 6 FELT CONE HEAD (BRIGHTNING AND SMOOTHING) weight (MINIMUM)- 125g	Basic Cosmetology	1 No.	0.04500	0.04500	Competitive Bidding
2.	Galvanic	Material: ABS, stainless steel Galvanic current level: 0.05-1.0mA Voltage: AC100-240V/50-60Hz Weight MIN. - 400g 1x Galvanic Microcurrent Skin Firming Machine 1 x Adaptor 1 x Operation Manual portable skin galvanic device. Functions of Body Manager Non-invasive facelift. Reduce and eliminate fine lines and wrinkles Improve facial circulation Improve hyperpigmentation and acne Increase product penetration	Basic Cosmetology	1 No.	0.06500	0.06500	Competitive Bidding
3.	Ultra Sonic	2 in 1 Ultrasonic Beauty Machine Voltage -220V Frequency -50HZ Weight MIN. - 5KG Power Source electricity Available in 2 different models Digital (with timer) & Non Digital (without timer) two probe heads for the treatment Flat Probe head, for flat surface skin and Pointed head for nose and under eyes.	Basic Cosmetology	1 No.	0.05500	0.05500	Competitive Bidding
4.	Skin Analyser	Image Captures System: High Quality CMOS Sensor Polarized Light Support: Automatic analysis on Analysis Item: Skin Completion, Texture, Moisture, Oil, Pigmentation, Skin Pores Interface: USB Skin Customer Info, Analysis Historical Data, Skin Trend Cosmetic/Application Recommendation, Auto Recommended Cosmetic/Application Automatically analyze skin issues as skin completion, water ratio, oily ratio, wrinkles and texture, skin pores Weight MIN. 135 g Power 5 V/500 mA	Basic Cosmetology	1 No.	0.03500	0.03500	Competitive Bidding
5.	Vacuum suction	Material -ABS Color - WHITE BLUE Facial Pore Cleaner Blackhead Vacuum Suction Blackhead Vacuum APPLICABLE: FACE, NOSE & EAR HEADS CHARGING - USB VACUUM BLACKHEAD REMOVER DEVICE:	Basic Cosmetology	1 No.	0.03500	0.03500	Competitive Bidding
6.	Tail comb	unbreakable pvc material full length 21.Cm. Handle length :10 cm. comb bristle width 4.5 cm. bristle (teeth) :15 (round teeth) Item Weight(min) : 40gms. Color - any	Basic Cosmetology	12 Nos.	0.00023	0.00276	Competitive Bidding
7.	Afro/Style Comb	Material- Acrylonitrile Butadiene Styrene (ABS) , comb size: 18.5 x 11.9 cm (7.28 x 4.68 inch). Pick comb size: 16.5 x 7.2 cm (6.49 x 2.83inch). Wide tooth comb size: 11 x 9 cm (4.33 x 3.54 inch) Total weight: 103g(min) Color: any	Basic Cosmetology	12 Nos.	0.000575	0.0069	Competitive Bidding
8.	Open teeth tail comb	unbreakable pvc material full length 22.5 cm. teeth width 2.5 cm. comb handle length :12 cm. Bristle (teeth) :10.5 cm. (very thin) Item Weight (min) : 25 gms. Any color	Basic Cosmetology	24 nos	0.000230	0.00276	Competitive Bidding
9.	Small bowl	material- plastic body height- 9.5 cm , dia - 19 cm Item Weight min. -400 g. Capacity- 1.2 litres	Basic Cosmetology	24 nos	0.000288	0.00345	Competitive Bidding
10.	Facial Band	L=45cm, B=5cm, material- cotton fabric - cotton elastic and stretchy color-any	Basic Cosmetology	24 nos	0.000230	0.0028	Competitive Bidding

11.	Spray bottle	Body PLASTIC Cap HDPE Dimension Pump Size 30 millimeter Bottle Height 12 centimeter Hose Length 60 millimeter min Weight 80 gram Bottle Width 6 centimeter Spray Gun type- Trigger type Color - any	Basic Cosemetology	12 Nos.	0.00046	0.0055	Competitive Bidding
12.	Nail File	length-20cm. Width-1.5cm. Suitable for smooth-gentle filing of nails two sided nickel plated surface.	Basic Cosemetology	12 Nos.	0.00046	0.0055	Competitive Bidding
13.	Nail Cutter	Material -Stainless Steel Product Dimension And Weight Product Dimension (In cm)-7 Product Weight, gram- 20 Colour Colour Silver	Basic Cosemetology	12 Nos.	0.000575	0.00690	Competitive Bidding
14.	Plain Switches	Colour -Black Material Synthetic Extension Length-18 inches Hair Type- Wavy Installation Type- Clip-In	Basic Cosemetology	12 Nos.	0.000748	0.0090	Competitive Bidding
15.	Switch Stand	size -(L x BxH) - 8"x5"x3 " material- plastic	Basic Cosemetology	12 Nos.	0.002875	0.0345	Competitive Bidding
16.	Towel (Large & Medium)	size -large Size -70(W)x140(L) cm Shape Rectangle cloth-cotton weight app. 500-650 GSM(gram per square meter). size -medium length-120 cm width-60 cm Shape Rectangle weight-350-450 GSM Cloth-cotton color-any	Basic Cosemetology	12 Nos.	0.001150	0.0138	Competitive Bidding
17.	Napkin	Color -White Pattern -Plain Size -12X12 Inch Fabric -soft non woven highly fabric(Plain Disposable)	Basic Cosemetology	24 nos	0.000690	0.0828	Competitive Bidding
18.	Hair Accessories	4.5 Inch Long Nylon Rubber Bands hair pin-7cm , hair band- adjustable juda pin-7 cm , juda stick/checher etc. metal color-any	Basic Cosemetology	12 Nos.	0.00052	0.006	Competitive Bidding
19.	Make-up Brush set	11 in one , Nylon, Wood set includes- eyeshadow brush, foundation brush, powder brush, concealer brush, contour brush and eyelash, eyebrow brush Sable hair face flat brush angled brush liquid foundation brush small detail brush handle material- wooden and round shape (premium synthetic fibers, ultra soft bristles, expertkiss)	Basic Cosemetology	12 Nos.	0.005750	0.0069	Competitive Bidding
20.	Pack & Bleach Brush	L- 15 cm , weight-60gm (min) bristle material-nylon and handal material-wooden color-any	Basic Cosemetology	12 Each	0.000575	0.0069	Competitive Bidding
21.	Hair cutting Scissors	Stainless Steel handle round shape size- 6.5 inch. Blade size-3 inch.	Basic Cosemetology	12 Each	0.00173	0.02070	Competitive Bidding
22.	Wax applicator	Stainless Steel Handle Length: 9.5 cm * Blade Length: 12.5 cm *Total Length: 22 cm *Wooden Handle Thickness : 1 cm * Steel Blade Thickness : 1 mm Steel Blade Width : 2.2 cm *	Basic Cosemetology	12 Nos.	0.000575	0.0069	Competitive Bidding
23.	Black Head Remover	item form - needle (round and pointed) material - steel colour -silver length :10 cm.	Basic Cosemetology	12 Each	0.005750	0.0690	Competitive Bidding
24.	Braid	L-24", W-3", Material - synthetic, Colour -Black , dark grey	Basic Cosemetology	12 Nos.	0.000575	0.0069	Competitive Bidding
25.	Bob Pins	Item Dimensions, 40 x 1 x 10 Millimeters , size - small, medium, and large	Basic Cosemetology	12 Nos.	0.002875	0.0345	Competitive Bidding
26.	Juda Pins	(size - small, medium, and large) -3cm / 5 cm /7 cm / U Shape - metal	Basic Cosemetology	12 Nos.	0.002760	0.0331	Competitive Bidding
27.	Setting clips	length- 6 Centimeters nickel plated metal with smooth surface, resistant to rust; body stainless steel and plastic shape-chope	Basic Cosemetology	12 Nos.	0.002875	0.034500	Competitive Bidding
28.	Lab Coat	Color- ' White ' material - Polyester 30% & 'Cotton 70% Fitting-"Relax Fiting" size- (small, medium Jarge)	Basic Cosemetology	12 Nos.	0.004025	0.048300	Competitive Bidding
29.	Manicure Set	Nail Cutter Cuticle Pusher Cuticle Nipper Nail Buffer Nail File Nail Brush Orangewood Stick (stainless steel)	Basic Cosemetology	12 Nos.	0.002875	0.034500	Competitive Bidding
30.	Pedicure Set	Nail Cutter Cuticle Pusher Cuticle Nipper Nail Buffer Nail File Pumice Stone/ Foot File Nail Brush Toe Separator Orangewood Stick	Basic Cosemetology	12 Nos.	0.002875	0.034500	Competitive Bidding
31.	Cutting Sheet	measures approximately +16 Cui by 73 Cui when laying flat Item Weight : 50 g Water Proof, RE-USE WASH AND HANG IT IN THE SUN DRY neck round shape with button and steps color - any	Basic Cosemetology	12 Nos.	0.00123	0.02070	Competitive Bidding
32.	Barber Scissors	SIZE -7 inch, blade edge-4 inch. ROUND SHAPE HANDEL FULL BODY STAINLESS STEEL	Basic Cosemetology	1 No.	0.001725	0.001725	Competitive Bidding
33.	Thinning Scissors	size-3 inch. Stainless steel (full body)	Basic Cosemetology	1 No.	0.00173	0.00173	Competitive Bidding
34.	Velcro Rollers	Large, medium, & small, approx.-3cm dia, 4.9 cm dia Material Plastic	Basic Cosemetology	12z.each	0.002875	0.002875	Competitive Bidding

35.	Perm rollers (Star Perm, Ladder Perm, Spiral rods, Chop sticks, Wooden rollers)	different sizes Small, medium, large/ Material Plastic /foam 1. L.-3.26 inch. W.- 2.2 CM. 2. L. - 3.26 INCH. W. -2 cm. 3. L. -3.26 inch. W.1.9 cm. 4. L. -3.26 INCH. W. -1.6 cm.	Basic Cosemetology	1 dz. Each	0.00288	0.00288	Competitive Bidding
36.	Dust Brush	material wooden handle shape- square/Colour Brown Handle Material Wood bristle Material -nylon Shape Rectangular34L x 7.3H Centimeters Item Weight(min)- 298 g	Basic Cosemetology	1 No.	0.0012	0.0012	Competitive Bidding
37.	Dye Brush	hair dye brush length- 9 inch . Plastic Material, bristles material- synthetic	Basic Cosemetology	1 No.	0.00035	0.00035	Competitive Bidding
38.	Back View Mirror	Item Weight(min)- 685 g Frame Material - Rubber,Acrylonitrile Butadiene Styrene (ABS) . Style Square	Basic Cosemetology	1 No.	0.001	0.001	Competitive Bidding
39.	Dye Bowl	dye bowl height-5.9 cm . width-15 cm .100ml / Plastic material , color-black	Basic Cosemetology	1 No.	0.0007	0.0007	Competitive Bidding
40.	Professional Hairbrushes set	1 .Square Brush, (handle wooden) 1 . Round brush, 1 . Section comb 1. Wide Teeth Comb	Basic Cosemetology	1 set	0.00230	0.00230	Competitive Bidding
41.	Scalp steamer	Material- Plastic, Pre-Heating time-5 minute Rotation-Both left and right Rotation angle-360 degree, Minimum application Temperature-30 degree Celsius Cooling time before cleaning-10 minute Height Adjustment-Yes Maximum application Temperature-55 degree Celsius Cord Length- 1 meter Voltage-180 Volt Wattage-500 Watt Frequency-50 Hertz	Basic Cosemetology	1 No.	0.0055	0.0055	Competitive Bidding
42.	Hot Rollers	Voltage-220-240 v power-1500Watt Material- Titanium, Size LxWxH 30.5 x 9.5 x 5 Centimeters, Item Weight(min)-370 Grams, Power Source -Corded Electric.	Basic Cosemetology	1 set	0.02	0.02	Competitive Bidding
43.	Dummy head on stand with slip on	synthetic, curly, straight hair style/IAS Colour Golden Material Synthetic Installation Type For Practice Hair Type Wavy Brand VIEWS Extension Length 24 Inches Material Feature Can be curled Hair Type Curly	Basic Cosemetology	1 No.	0.006	0.006	Competitive Bidding
44.	Dryer	Wattage 1000 Product Dimensions 14 x 8 x 14 cm; 300 Grams, Flexible cord 2 Heat and 2 Speed settings good quality made of plastic or metal body Cool Shot Button 2 Detachable Nozzles	Basic Cosemetology	1 No.	0.0575	0.0575	Competitive Bidding
45.	Crimper	power-60Watt Adjustable temperature dial settings up to 230°C for all hair types Extra-long 9 feet professional length cord and 360° swivel tangle-free cord.system automatic	Basic Cosemetology	1 no for 5 stations	0.0161	0.0161	Competitive Bidding
46.	Mirror Panel	mirror height- 5 feet, width- 2.5 feet, thickness- 6mm , mirror side panel covered with wooden frame . (IN HOUSE)	Basic Cosemetology	1 No.	0.9200	0.9200	Competitive Bidding
47.	Styling Chair (multipurpose for hair & beauty services)	Chair type - Styling Chair Design -Ergonomic Provision of Swivelling - 180 degree Chair Height - Fixed Tilt of Seat - Fixed Chair Back - Fixed Arm rest - With Footrest -Without Footrest headrest Adjustable -100mm and Removable headrest Chair Base (shape) - Square Chair Base material Premium - chrome plated Body frame Heavy duty - steel frame Fork material - Heavy chrome plated Padding material Small cell High-density foam Small cell High-density foam - Noiseproof foam Seat and Back material - Soft PVC Leatherette Inside Seat width- 450 millimeter Inside Seat depth- 490 millimeter Seat thickness- 80 millimeter Seat Height from floor Hant : in term of Lowest to Highest (in case of Adjustable height only) 500 Back Height- 450 millimeter Back Width- 430 millimeter Arm Width- 60 millimeter	Basic Cosemetology	1 No.	0.13800	0.13800	Competitive Bidding
48.	Shampoo Station with chair	Thickness of solid wood = 75 mm Thickness of plywood = 3 mm PU foam moulded with density = 2 kg/CuM (on bed surface) 40 Kg/CuM Thickness of foam (armrest) = 50 mm Length with facility of electric leg lift ± 10 mm 1650 mm Seat to floor height ± 5 mm 450 mm Width of armrest ± 3 mm 125 mm Scope Used as hair wash unit Construction Wooden frame with plywood and fibre glass construction Design Laid back design with lamber support Hair wash ceramic basin with water supply faucet and drain facility - With pedestal Distributed load capacity Up to - 200 Kgs	Basic Cosemetology	1 no for 5 stations	0.057500	0.057500	Competitive Bidding
49.	Hair Trolley	5 slide out drawer - size of each drawer approx 14.8**10.6**2.6" (L**W**H) , overall size -approx. 14.8**12.6**32.3"(L**W**H) TOP TRAY : approx 19.7**12.4**" (L**W) DRAWER OUTER SIZE: approx- 14.8**10.6**2.6"(L**W**D) Mixing bowl - Inner size- approx- 4.3**2" (Dia**depth) Hair dryer holders Approx- 2.6"(inner dia)	Basic Cosemetology	01 No.	0.011500	0.011500	Competitive Bidding
50.	Ceramic Straightening Iron	full Length :292 mm. width :41 mm. cord length :4.34 m. height :45 mm. tem. Setting :165;185; 210 degree celcius power 210 w (max.) weight (min.) 561 g. Body : copper and plastic	Basic Cosemetology	1 No.	0.016100	0.016100	Competitive Bidding
51.	Curling Rods with attachments	cord length :2.68 m. height :272 mm. tem.setting :3 power :1300 w airflow :13.5 /s weight :0.61 kg min 30 mm air wrap :40 mm airwrap soft smoothing brush filler cleaning brush	Basic Cosemetology	1 no for 5 stations	0.010	0.010	Competitive Bidding
52.	Neck Tray (for perming)	size(L*W)-32cm*33cm, 12.60x12.99inch PVC Material Ceramic Tourmaline, Ceramic Weight (min)100 Gram	Basic Cosemetology	1 No.	0.00288	0.00288	Competitive Bidding
53.	Re-bonding Boards	(L)210 x (H)297 mm, material - plastic	Basic Cosemetology	1 set	0.001	0.001	Competitive Bidding
54.	Benders	flexible plastic unbreakable	Basic Cosemetology	1 dz.	0.00	0.00	Competitive Bidding

55.	Hood Dryer	1000Watt/ Stand Material-Mild Steel Wheel Diameter -75 mm Wheel Type -Caster Wheel (4) Powerful drying with - 1600 W Gently directs the airflow in specific sections giving better control during styling 3 temperature settings (hot, warm and cool), Ionic : No Separate cool shot button for convenience Double protection against over heating Foldable handle	Basic Cosmetology	1 no for 5 stations	0.115	0.115	Competitive Bidding
56.	Magnifying lamp	Light Source -electric Color - white Material ABS Plastic and Stainless Steel Concave Lens, Glass Prism, Size/Dimension 125mm Mounting Type- Stand Type Lamp Type- LED light with stand	Basic Cosmetology	1 no for 5 stations	0.0518	0.0518	Competitive Bidding
57.	Vapozone	Voltage 110-240V Frequency 50HZ/60HZ 1.hole pipe,middle pillar 2.four foot claw 3. lower pillar 4. cup water 5.stand unit 6.pulling hand 7.power line 8.control units 9. indicating fan 10 water level probe	Basic Cosmetology	1 no for 5 stations	0.069000	0.069000	Competitive Bidding
58.	Beauty Studio	Material-Acrylonitrile Butadiene Styrene, Color-White, Item Weight- 8 Kilograms, 7 in 1 Hydro Facial Machine, Facial Machine Blackhead Remover Pure Vacuum Cleaner Facial Skin Care Device Equipment PROFESSIONAL BEAUTY DEEP CLEANING DEEP MOISTURIZING Laser Equipments Pysiotherapy Equipments SlimmingEquipments.	Basic Cosmetology	1 no for 5 stations	0.69000	0.69000	Competitive Bidding
59.	High frequency	Material: -ABS,IAS Glass Voltage: 100-240V, US Plug Frequency: 50-60HZ Power: 10W 4 device 1. mushroom tube :length: 14 cm.(5. inch) 2. bent tube : length : 14.5 cm. 3. tongue tube : length :16 cm. (6.3 inch) 4. comb tube : length :15.5 cm.	Basic Cosmetology	1 No	0.0690	0.0690	Competitive Bidding
60.	Infra red Lamp	Height Adjustable,height, 275 watt Use for Whole Body Item Dimensions LxWxH 11 x 11 x 11 Centimeters Lighting Color red Weight min. - 2 kg Base Material PLASTIC Lamp Type STANDING	Basic Cosmetology	1 No.	0.0052	0.0052	Competitive Bidding
61.	Wax heater	Single Jar Waxing Heater, temperature can be adjustable from 0 degree to 55 degree .Suitable for all types of waxes: hard waxing, strip waxing, paraffin waxing, moulded in durable heat assistant material	Basic Cosmetology	1 No.	0.005750	0.005750	Competitive Bidding
62.	Beauty Trolleys	5 slide out drawer - size of each drawer approx 14.8"*10.6"*2.6" (L*W*H), overall size -approx. 14.8"*12.6"*32.3"(L*W*H) TOP TRAY - approx 19.7"*12.4"(L*W) DRAWER OUTER SIZE approx- 14.8"*10.8"*2.6"(L*W*D) Mixing bowl - Inner size- approx- 4.3"*2" (Dia*Depth) Hair dryer holders Approx- 2.6"(inner dia)	Basic Cosmetology	1 No.	0.014	0.014	Competitive Bidding
63.	Facial Bed	Bed frame structure and headrest made up of Hardwood- Teakwood Thickness of wooden bed frame-75 mm Bed surface made up of 5 mm thick boiling water proof plywood Legs of bed made up of- 100 mm thick teakwood Thickness of underneath-50 mm Reclining mechanism material (corrosion resistant)-SS 304 and nylon PU foam moulded with density ± 2 kg/CuM (on bed surface)-45 Kg/CuM Thickness of foam-125 mm Upholstery material- Soft PVC leatherette Length ± 10 mm-1900 mm Width ± 5 mm-710 mm Height ± 5 mm-710 mm Wood coating - With polyurethane	Basic Cosmetology	1 No.	0.0575	0.0575	Competitive Bidding
64.	Manicure Bowls	material- plastic body height-12cm , dia - 19 cm Item Weight min. -400 g. Capacity- 2 litres	Basic Cosmetology	1 No	0.002	0.002	Competitive Bidding
65.	Pedi spa tub	Material -Plastic Temperature control and LCD display Power Source -Corded Electric,CONSTANT HEATING, Function air bubble, infrared , vibration , heating on/off button	Basic Cosmetology	1 No	0.02300	0.02300	Competitive Bidding
66.	Manicure stools	Seat lowers to 16" and raises to 21", gauge -16, Material-synthetic leather Height Adjustable with rounded wheel	Basic Cosmetology	1 No.	0.0092	0.0092	Competitive Bidding
67.	Manicure table	36"*20".h-33" Stainless Steel with Wheel gauge -16	Basic Cosmetology	1 No.	0.0230	0.0230	Competitive Bidding
68.	Pedi stool	height-48-68cm Size of cushion(L x W x H): Approx. 24.5 x 16.5 x 9.5cm Overall Size(H x L x W): Approx. 66 x 32 x 29cm Product weight min : 2.665kg	Basic Cosmetology	1 No.	0.0058	0.0058	Competitive Bidding
69.	Manicure Trolley	Product Dimensions 81.3D x 38.1W x 73.7H Centimeters Material- Iron Number of Wheels - 4 bowl - 2 steel	Basic Cosmetology	1 No.	0.0138	0.0138	Competitive Bidding
70.	Dry Sterilizer	color-silver capacity- 12L voltage-220-240-V Frequency-50- 60 Hz Watt-1000W Disinfection Time- 30 m sterilization temp. - 100-250 degree Celsius Dimension - 225 *210*325 mm in approx Power Source: Electric Disinfecting Type: Medium temperature Dry Moisture, Medium temperature heating	Basic Cosmetology	1 no for 5 stations	0.03450	0.03450	Competitive Bidding
71.	Boiler	CAPACITY- 3500 MILLILITER, MATERIAL -STAINLESS STEEL , VOLTAGE-230 V, WATTAGE- 680 WATTS , Frequency- 50Hz.	Basic Cosmetology	01 No.	0.00690	0.00690	Competitive Bidding

72.	Front wash Basin	Overall length (cm) (±10)-40 Overall Breadth (cm) (±10)- 40 Overall Height (cm) (±10)- 40 Sosp Place with No. of Tap holes-1 Nuts Bolts and Fixing Bracket / Support Accessories are part of Supply-yes Height of the Pedestal (cm) (±10)-80 Shape- round	Basic Cosemetology	1 no for 5 stations	0.0575	0.0575	Competitive Bidding
73.	Curtain/blinds for Lab		Basic Cosemetology	As required	0.006	0.006	Competitive Bidding
74.	Blanket	Single Layer /woven, 50% WOOL, P/W- 1.5x2m, medium thermal resistance, Thickness-3mm minimum .Tensile strength - 250N minimum warp and weft	Basic Cosemetology	1 No	0.00575	0.00575	Competitive Bidding
75.	Hot towel cabinet	(L*W*H) - 45*33*32cm capacity - 16L Wet Towel Warmer, Hold 30-40 Hot Towels Power: 200W, Voltage: 110V, Temperature: 70°C±10°C, Exterior: 18 x 12 x 12 1/2 INCH, Interior: 13 3/4 x 10 x 5 1/2 INCH, Frequency: 60Hz	Basic Cosemetology	1 no for 5 stations	0.17250	0.173	Competitive Bidding
76.	Desktop Computer	Processor Generation -10 Number of Cores per Processor -10 Motherboard Chipset Series intel Q Series Chipset Number intel Q 470 Expansion Slots (PCIe x 1) (Number) 1 Expansion Slots (PCIe x 4) (Number) 0 Expansion Slots (PCIe x 16) (Number) 1 Expansion Slots (PCI) (Number) 1 Expansion Slots (M Dot 2) 1 Processor Processor Make Intel Processor Generation 10	Basic Cosemetology	01 No.	0.58	0.58	Competitive Bidding
77.	Computer Table	Computer table size 48" x 24" x 30". Frame made of 1" sq. Pipe of 2kg. One drawer fitted on right side and made of 2kg. Sheet. Top made of 18mm. Board with 3mm sun mica. One sliding tray for key board & two shelves under the top made of 18mm. Board. Both side of table covered with dual color paint. complete with drawers & shelf to accommodate UPS & CPU. IS marked boards, angles, sheets.	Basic Cosemetology	01 No.	0.02875	0.029	Competitive Bidding
78.	Heat Convector	three heat settings (600 W/ 1200 W/ 2000 W). Cord Type:PVC, adjustable height setting for your convenience	Basic Cosemetology	04 Nos.	0.0173	0.0690	Competitive Bidding
79.	Air conditioner split	SPLIT AC 2 TON ,HOT & COLD , Annual Power Consumption: 1013.01 kWh , Copper Condenser Coil with Shield Blu Technology: Anti Corrosion Blue Fin Technology , Wi-Fi Air Conditioner Works with Amazon Alexa and Google Assistant Voice Control Smart Diagnosis with One Touch Service Shield Blu Anti Corrosion Technology , indoor Unit Dimension CM: 107()23 5()29()H Outdoor Unit Dimension in CM :82.4()129.9()61.9()H IDU Weight : 12 kg ODU Weight : 31 Kg, Cooling Capacity - 6600 Watts Copper Condenser, Annual Energy Consumption- 1560 Kilowatt Hours Per Year, Noise Level-42 db, Voltage-240 Volts , Wattage- 1850 Watts,	Basic Cosemetology	2	0.690	0.690	Competitive Bidding
80.	Student Lockers	10 COMPARTMENT WITH 20 GAUGE Width (cm)-90.5, height-185 cm , depth -40 cm , Door Handle Type-swing, Lock Type-Keyed,Method of Construction- Welded, dual color deco paint. CRCA Steel	Basic Cosemetology	1 per student	0.006	0.006	Competitive Bidding
81.	Refrigerator	Capacity-190 litres, Freezer Capacity- 19 Litres, Defrost System-Direct Cool, Shelf Type- Toughened Glass, Included Components-Main Unit, Vegetable Tray, Ice Tray,User Manual, Power Requirement : 80W, Voltage: 220-240V, 50Hz, box with humidity controller, Energy Efficiency-5 Star, Annual Energy Consumption- 168 Wat Hours, Shelf Type: Toughened glass shelves of 150 kg load bearing capacity, Anti Drip Chiller Technology, 2-2SL, Aqua Space .	Basic Cosemetology	1 No.	0.17250	0.17250	Competitive Bidding
82.	Almirah	Number of shelves 3 Uniformly distributed load (UDL) for shelves 60 Kpa. Washable by any/No washable Tie Hanger No Colour of Finish Primer Grey Steel sheet material CRCA sheets conforming to grade CR1 of IS 513(part-1)2016 (with latest amendment) Almirah height(including the height of pedestal) ± 5 mm 1270 mm Almirah width ± 5 mm 760 mm Almirah depth ± 5 mm 610 mm Side sheet thickness 0.9 mm Back sheet thickness 0.9 mm Top sheet thickness 0.9 mm Bottom sheet thickness 0.9 mm	Basic Cosemetology	1 no for 5 stations	0.1150	0.1150	Competitive Bidding
83.	Black head remover	item form - needle (round and pointed) material - steel colour -silver length -10 cm.	Basic Cosemetology	1 No.	0.0058	0.0058	Competitive Bidding
84.	Wet Sterilizer	democracy 16*12*4.5inch . Electric instrument sterilizer with Sterilization Boxes, Power Code, Tray and Tray Lifting arrangement, Stainless Steel.	Basic Cosemetology	1 no for 5 stations	0.0345	0.035	Competitive Bidding
85.	Student's chair with flap		Basic Cosemetology	25 (24+1) Nos.	0.014	0.345	Competitive Bidding
86.	Teacher's Table and chair set		Basic Cosemetology	04 No.	0.115	0.115	Competitive Bidding
87.	Interactive board/lcd projector		Basic Cosemetology	01 No.	0.8050	0.8050	Competitive Bidding
88.	Computer set with UPS		Basic Cosemetology	01 No.	0.633	0.633	Competitive Bidding
89.	White Magnetic board with felt board		Basic Cosemetology	01 No.	0.12	0.12	Competitive Bidding
90.	Yoga Mat	6*72Non Slip Surface, DOUBLE SIDED ANTI-SLIP, 6mm thick, 72" extra long and 26" wide , (thermoplastic elastomer) material.	Basic Cosemetology	25 (24+1) Nos.	0.0035	0.086	Competitive Bidding
91.	Air conditioner	SPLIT AC 2 TON , Technology - Inverter AC Full Load Capacity (100%) - minimum-6600 W Half Load Capacity (50%) minimum- 3300 W Compressor Type- Twin Rotary with copper coil Refrigerant Gas -R32 Condenser Coil-Copper Rating -5 Star Power Supply [V/Hz/Ph] -230 / 50 / 1 Phase Max operating Ambient Temp Range [Deg C] -52° C Multi-Adjustable Cooling -variable Filter -Triple Filter Protection FEATURES- Sleep mode ,Auto Start ,Temp. Display ,Timer ,Fan speed control,Eco saving, turbo cooling Accessories / Installation kit with each split air conditioner Cu connecting pipe (for Wall Mount type upto 2 Ton),Remote control,2 nos.of battery for each All with outdoor unit stand and installation	Electronics Mechanics	01 no	0.650000	0.650	Competitive Bidding

92.	Connecting screwdriver 100 mm	Material Parameters Material of Blade Steel Material of Handle Plastic Type of Screw Drivers Engineers Screwdrivers Screw Driver Point Size or Tip Size (a x b) in mm x mm 1.2 x 8.0 Tip of Phillip Screw Driver , for others put NA for Flat Tip NA Shape of Blade Round Diameter of Blade if Round Shape in mm otherwise put NA for Square Shape Blade 8 Length of Blade in mm 100 Type of Head Slotted Head Size of Head M 1.6 Weight of Screwdriver in gms 225 The blade of Screwdrivers shall be protected against rust by plating with nickel , Chromium or zinc Yes	Electronics Mechanics	24 nOS	0.00288	0.00900	Competitive Bidding
93.	Neon tester 500 V.	Technical Parameter Tip Width - Tolerance +/- 0.18 mm Blade Diameter 4 millimeter Weight 40 gram Tip Width (Tolerance : - 0.18 mm) 4 millimeter Length of Handle 100 millimeter Handle Material Plastic Length of Blade 50 millimeter Tip Thickness - Tolerance :) +/- 0.05 mm Blade Plating Nickel Chrome Material of Blade Stainless Steel	Electronics Mechanics	16 Nos	0.00184	0.02944	Competitive Bidding
		Hardness on Tip (HRC) 55 Tip Thickness 0.1 millimeter Performance Parameter Maximum leakage current (micro ampere) 0.1 Maxmum Voltage for Testing (Direct Current) 500 Volt Minimum Voltage for Testing (Alternating Current) 20 Volt Maxmum Voltage for Testing (Alternating Current) 200 Volt Minimum Voltage for Testing (Direct Current) 60 Volt Generic		0.00161	0.0322	Competitive Bidding	
94.	Screw driver set	Packaging Type Plastic Box Size of Flat Tip in inches , Tolerance - 5% 0.055,0.07,0.08,0.1,NA No. of Flat tip scrdrivers tip 6 Blade Tip Finish Natural Steel Handle Grip PVC No. of Philips screwdriver tip 3 Type Manual Working Set of Screddriver in pcs 9Screw driver		24 Nos	0.003220	0.07728	Competitive Bidding
95.	Insulated combination pliers	Performance Parameters Type of Hand Tool Combination Plier as per IS 6149 Type of Insulation Plastic Insulation Shape of Handles Bowed handle Type of Joint Lay-on joint Type of Gripping Surface Serrated Shape of Nose Flat Section (End View) Type of Cutter NA Tool Finish Polished. Handle Finish Smooth finished Material Parameters Material Carbon Steel	Electronics Mechanics	16 Nos	0.00276	0.06624	Competitive Bidding
		Dimensional Parameters Length of Hand Tool in mm 165 Weight of hand tools in Grams 62 Width of hand tools in mm 62 millimeter Jaw length of Hand tool in mm 100 millimeter Jaw Thickness of Hand tool in mm 25 millimeter Hardness of Gripping Surafce (Must be in between 35 <=N<=50 HRC) Yes Hardness near Cutting Edge (Must be in between 50 <=N<=70 HRC) Yes		0.00092	0.01472	Competitive Bidding	
96.	Insulated side cutting pliers	Cutting Plier Insulated 150 mm matrial -High carbon steel with thick cellulose Acetate sleeve, Plier weight 160gm, drop forged tested . protected Anti-rust Smooth and quick working Jaws induction hardened	Electronics Mechanics	20 Nos	0.00610	0.03220	Competitive Bidding
97.	Long nose pliers	long nose insulated 150 mm Plier matrial Confrimty to Standards) IS 2615:1989 & IS 11526:1986 With latest amedmnt. Performance Parameters Type of Hand Tool Long Nose Pliers as per IS 3552 Type of Insulation Rubber Insulation Shape of Handles Straight handle Type of Joint Single Joint Type of Gripping Surface Plain Shape of Nose Straight Tool Finish Natural finish, Handle Finish Smooth finished		16 Nos	0.0015	0.0239	Competitive Bidding

		Electrical insulation Yes Soft handles Yes Material Parameters Material Alloy Steel Dimensional Parameters Length of Hand Tool in mm 150 Weight of hand tools in Grams 135 Width of hand tools in mm 50 millimeter Jaw length of Hand tool in mm 75 millimeter Jaw Thickness of Hand tool in mm 10 millimeter Hardness of Gripping Surface (Must be in between 35 <=N<=50 HRC) Yes Hardness near Cutting Edge (Must be in between 50 <=N<=70 HRC) Yes	Electronics Mechanics				Competitive Bidding
98.	Soldering iron	Soldering iron 25 Watt, 240 Volt Max Temperature 380c Operating Voltage 150~230V Out put power 25 watt Cable Length (Meter) 1.5 Tip Diameter: 5mm Weight (gm) 140		24 nos	0.00276	0.00662	Competitive Bidding
99.	Electrician knife	Knife Double Bladed Electrician 100 mm DIMENSIONAL PARAMETERS Type of Cutter Knife : wire cutter knife Material of Body Plastic Material of Blade Carbon Steel Length of Blade (in mm) 100 millimeter Width of Blade (in mm) 18 millimeter Thickness of Blades (in mm) 0.3 millimeter Head Type Sharp Head ADDITIONAL PARAMETERS Blade Replaceable Yes Screw Locking System Yes	Electronics Mechanics	16 Nos	0.00092	0.01472	Competitive Bidding
100.	Tweezers	Tweezers 150 mm Rubber Sleeve with Insulated Coating Tip material Stainless steel Tip size, length 0.3 millimeter Size 6 inch Tip size, Width 0.3 millimeter Shape Straight Handle Grip Stainless Steel		24 Nos	0.00069	0.01656	Competitive Bidding
101.	Digital Multimeter	(3 3/4 digit), 4000 Counts with 0.7 accuracy DC Voltage Range : 1000V Environment conditions : 1000V CAT II and 600V CAT III Operating temperature : : 0~40°C, 32°F~122°F(<80% RH, <10°C non-condensing) Storage temperature : : -10~60 °C, 14°F~140°F(<70% RH, battery removed) Temperature Coefficient : 0.1(specified accuracy) / °C (<18°C or >28°C) Display : 3 3/4 digits LCD display. Automatic indication of functions and symbols Range selection : automatic and manual Over Range indication : LCD will display "OL" AC Voltage Range : 1000V Resistance Range : 40MΩ Frequency Range : 100kHz Power Supply : 3x1.5 AAA Batteries Product Size : 185mmx87mmx53mm Product Weight : 360gm	Electronics Mechanics	24 Nos	0.01840	0.44160	Competitive Bidding
102.	Soldering Iron Changeable bits	Soldering iron changeable bit 15 Watt, 240 Volt Max Temperature 380c Operating Voltage 150~230V Cable Length (Meter) 1.5 Rated Power 15W Bit type : tip pointed Bit Material : Nickel plated Tip Diameter: 4mm	Electronics Mechanics	16 Nos	0.004	0.059	Competitive Bidding
103.	De- soldering pump electrical heated, manual operators	Desoldering pump 230 V, 40 W Size : length 7.8inch , Dia: 0.78 Inch Tip shape : Round , Tip Material Nickel . There should be a gap between nozzle and board to avoid heat of soldering iron. Elastic and heat-resistant nozzle can stick to soldering iron on board closely and suck up solder powerfully with less residue. Low maintenance cost owing to spare tube only required for replacement High-power and efficient absorption by means of elastic nozzle contact Self-cleaning shaft allows high productivity of continual work without clogging		24 Nos	0.0021	0.0497	Competitive Bidding
104.	Steel rule graduated both in Metric and English Unit	Steel Rule Graduated both in Metric and English Unit 300 mm with precision of 1/4th mm Rules Width (mm): 18 mm Item weight minimum 77.1 g material of rule Tempered stainless steel	Electronics Mechanics	4 Nos.	0.00138	0.00552	Competitive Bidding
105.	Precision set of screw driver	Precision set of screw drivers T5, T6, T7 BIT made of high quality CR-V steel by vulcanization, Hardness 52- 55 HRC , Head Style: Phillips ,Handle of screwdrivers made of high quality plastic. - Black electro lacquering finish of the blades effectively protects blades from corrosion		2 Nos.	0.00621	0.01242	Competitive Bidding

106.	Tweezers – Bend tip	Tweezers- Bend tip size : 150 mm Stainless steel Tip material Stainless steel Tip size, length 0.5 millimeter Tip size, Width 0.2 millimeter Shape Curved Handle Grip Stainless Steel	Material	Electronics Mechanics	2 Nos.	0.00138	0.00276	Competitive Bidding
107.	Steel measuring tape	Steel measuring tape 3 meter Measuring Steel Tape 3 meter x16mm case material Acrylonitrile Butadiene StyreneHeat sealed markings on tape ribbon for prolonged life.			4 Nos.	0.0037	0.0147	Competitive Bidding
108.	Tools makers vice	Tools maker vice 100mm (clamp) Jaw width: 100 mm Jaw opening: 70 mm Parallelism 0.007mm/100 mm,squareness 0.015 mm		Electronics Mechanics	1 Nos.	0.0460	0.0460	Competitive Bidding
109.	Tools maker vice	Tools maker vice 50mm (clamp) Jaw width: 50 mm Jaw opening: 35 mm Parallelism 0.007mm/100 mm,squareness 0.015 mm			1 Nos.	0.03450	0.03450	Competitive Bidding
110.	Crimping tool (pliers)	Maximum crimping capacity in Sqmm 16 Minimum crimping capacity in Sqmm 1 Crimping die's provided (mm) NA for Non changeble die Packing Plastic casing Construction Weight in Kg 0.2-0.6 Crimping Type Semi Disc Body Material Metal Stroke 14 mm Changeble Die's feature No Length in mm 240-280 Crimping Force in newton 4		Electronics Mechanics	2 Nos.	0.00520	0.01104	Competitive Bidding
111.	Magneto spanner set	Magneto spanner set 8 Spanners size : 6-7,8-9,10-11,12-13,14-15,16-17,18-19,20-21 Magneto wrenches on ring Chrome plated micro-matte finishing provides high quality surface High-performance alloy steel			2 Nos.	0.006440	0.01288	Competitive Bidding
112.	File flat bastard	File flat bastard 200 mm High carbon steel, PVC Handle, Colour- Dark Grey ,superior grade steel bar that high resistance grains	Material- Handle Material- PVC	Electronics Mechanics	2 Nos.	0.0048	0.0097	Competitive Bidding
113.	File flat second cut	File flat 200 mm 2nd cut High carbon steel, PVC Handle, Colour- Dark Grey ,superior grade steel bar that high resistance grains	Material- High Handle Material- PVC		2 Nos.	0.00460	0.00920	Competitive Bidding
114.	File flat smooth	File flat smooth 200 mm 2nd cut High carbon steel, PVC Handle, Colour- Dark Grey ,superior grade steel bar that high resistance grains	- Material Handle Material- PVC	Electronics Mechanics	2Nos.	0.00460	0.00920	Competitive Bidding
115.	Plier - Flat Nose	Plier flat nose insulated 150 mm Plier steel with thick CA Sleeve weight 200gm chrome vanadium steel Anti-rust protected Smooth and quick working Jaws induction hardened	Matrial -alloy Drop forged from tested		4 Nos.	0.05006	0.0202	Competitive Bidding
116.	Round Nose pliers	Round nose plier insulated 100 mm Plier matrial -alloy steel with thick CA Sleeve weight 200gm Drop forged from tested chrome vanadium steel Anti-rust protected Smooth and quick working Jaws induction hardened		Electronics Mechanics	4 Nos.	0.0048	0.0193	Competitive Bidding
117.	Scriber straight	Scriber straight 150 mm Scriber (Knurled centre position) Length 190mm Material Stainless Steel Color Silver Hardened 60 HRC Bent 90 Deg			2 Nos.	0.00403	0.00805	Competitive Bidding
118.	Hammer ball pen	Hammer ball pen 500 grams with handle 500 grams Drop forged from high-grade carbon steel Partially hardened up to 55 - 58 HRC Industry grade Phosphate coating Painted to provide anti-rusting properties Handle made from high quality Axle / Hickory wood head material steel handle material wood drop forged from high grade carbon steel.phosphated and painted head width 105mm face diameter 30 mm total length 33 cm Total Weight : 710 grams		Electronics Mechanics	1 No.	0.00690	0.00690	Competitive Bidding

119.	Allen key set (Hexagonal -set of 9)	Material Chrome Vanadium Steel Piece per Box 9 Tip Size 1.5 millimeter Warranty 12 month Certification & Standard Conformity to Indian Standard IS 3082:1988 Technical Parameter Length of Long Arm 100 millimeter Length of Short Arm 10 millimeter Material Chrome Vanadium Steel Piece per Box 9 Tip Size 1.5 millimeter Finish Black		1 No.	0.00943	0.00943	Competitive Bidding
120.	Tubular box spanner	Tubular box spanner Set of- 6 Contents : 6 x7, 8x9, 10x11, 12x13, 14x15, 16x17, mm Type of wheel spanner Double Ended Tubular Box Spanner Diameter of Rod 25 millimeter Length (Tolerance 5%) 180 millimeter Hardness, (HRC) 35-45 Wall Thickness of Tubular Spanner 6 millimeter Material :Steel with chrome plated	Electronics Mechanics	1 set.	0.01840	0.01840	Competitive Bidding
121.	Magnifying lenses	Magnifying Lenses 75mm Lens Magnification: 2.5x Lens Diameter: 75 mm Lens Type: Plano Convex Focal Length: 150 mm		2 Nos.	0.00905	0.01610	Competitive Bidding
122.	Continuity tester	Continuity tester capacity 0 to 50 mili amp. Maximum output-0 to 5 kva Material: Copper Tester Length: approx. 10.7cm Cable Length (Unstretched): approx. 62cm	Electronics Mechanics	6 Nos.	0.0069	0.0114	Competitive Bidding
123.	Hacksaw frame adjustable	Hacksaw frame adjustable upto 300 mm Handle material : steel , Blade 300mm Dimension 40x8x2 cm Adjusting range : 250 -300 mm Frame :Tubular Hacksaw		2 Nos.	0.0037	0.00736	Competitive Bidding
124.	Chisel - Cold - Flat	Hardness of cutting edge in HRC Min 55 Hardness of head in HRC Min 40 Material And Dimensional Parametes Material Carbon steel Nominal size in mm 20 Width across flats or diameter in mm 12 Length of blade in mm 140 Cutting edge thickness 1.5 Overall length of chisel 150 Length of conical head 6 Blade depth for cross cut chisels in mm 19 Blade root thickness for cross cut chisels in mm 8	Electronics Mechanics	1 No.	0.006	0.00621	Competitive Bidding
125.	Scissors	Handle Material Plastic Blade Length (mm) 195 millimeter Overall Length (mm) 200 Blade Thickness (mm) 2.5 Material of Blade Stainless Steel Type of Fastening Rivet Physical Characteristics Blade Length (mm) 195 millimeter Overall Length (mm) 200 Blade Thickness (mm) 2.5		1 No.	0.0030	0.00269	
126.	Handsaw 450mm	Handsaw 450 mm Size- 450mm (18"),with plastic handle Material- Hardened Steel blades, Thickness:0.9mm, Teeth distance: 7 teeth per inch (TPI) MINIMUM WEIGHT 350 GRAM Cutting Angle 90 Degrees	Electronics Mechanics	1 No.	0.0097	0.0097	Competitive Bidding
127.	Hand Drill Machine Electric with Hammer Action	Power supply 230 V, 50 Hz,Single Phase Power Rating in Watt 450 Rotation speed of the Hammer (in rpm) 500 Impact Rate (ipm) 10 Noise level in db when working within 1 metre distance 50 Length of electric cord provided in metres 6 3 Pin 5 Amp Electric Cord to be Provided Yes Number of drill bits provided 1 Length of Drill bits (in cm) 30 Chisel adjustment with mode selector switch for drilling/ chiselling 36 position;		2 Nos.	0.0200	0.0400	Competitive Bidding
128.	First aid kit	First Aid kit Key Features Scissor - 1. Antiseptic Wipes - 10 Stripes. Instant cold Pack - 1 Pkt. Povidine wipes - 5 Piece. Breathing Barrier - 1 Pkt. Adhesive bandage - 5 Pkt. Triangular bandage - 1Pkt. Sterilised Dressing - 5 Pkt. Burn Dressing - 1 Pk. Snake Bite Lancet - 1 Pkt. Roller Bandage - 1 Pkt. Glaze Pad - 1 Pkt.	Electronics Mechanics	1 No.	0.0092	0.0092	Competitive Bidding
129.	Bench Vice	Bench Vice - 125 mm ,Width of jaws 125 ,Opening Jaws 140 ,Depth of jaws 70 ,Overall Height 155 ,Overall Width145 ,Overall Length 375 , Weight Approx 13kg Jaw with hardened jaw tough cast iron material heavily tempered and hardened bench vice. Two Steel jaws are aligned to each other in which one is movable, and the other is fixed. The workpiece is held tightly by adjusting the jaws using the lead screw made of steel. The rest of the body is built from ductile iron.		1 No. each	0.058	0.138	Competitive Bidding

		<p>Bench Vice - 100 mm ,Width of jaws 100 ,Opening Jaws 120 ,Depth of jaws 55 ,Overall Height 130 ,Overall Width 130 ,Overall Length 315 , Weight Approx 9kg jaw with hardened jaw tough cast iron material heavily tempered and hardened bench vice. Two Steel jaws are aligned to each other in which one is movable, and the other is fixed. The workpiece is held tightly by adjusting the jaws using the lead screw made of steel. The rest of the body is built from ductile.</p> <p>Bench Vice - 50 mm,Width of jaws 50 ,Opening Jaws 60 ,Depth of jaws 50 ,Overall Height 100 ,Overall Width 80 ,Overall Length 225 , Weight Approx 3kg jaw with hardened jaw tough cast iron material heavily tempered and hardened bench vice. Two Steel jaws are aligned to each other in which one is movable, and the other is fixed. The workpiece is held tightly by adjusting the jaws using the lead screw made of steel. The rest of the body is built from ductil</p>	Electronics Mechanics		0.046	0.046	Competitive Bidding
					0.03450	0.03450	Competitive Bidding
130.	Dual DC regulated power supply	Dual dc regulated power supply Input voltage 240 volts ac , Dual Output Voltage- 0 ~ +30-0-30,2amp.VDC, Dual Output Current -0 ~ 2A , Fixed Output - 5VDC/2A , Recovery Time-< 100ms, Standard Accessories : Power cable, Instruction manual and LCD Display .	Electronics Mechanics	4 Nos.	0.0530	0.1012	Competitive Bidding
131.	DC Regulated Variable Programmable DC Power Supply	<p>OUTPUT</p> <p>Variable voltage range 0 to 30 V (+10%)</p> <p>Variable voltage control Single turn coarse and fine control, continuously adjustable</p> <p>Variable current range 0 to 30 A (+10%)</p> <p>Variable current control Single turn coarse and fine control, continuously adjustable</p> <p>Configuration Constant Voltage and Constant Current</p> <p>Load regulation $\leq \pm 0.1\% + 2 \text{ mV}$ for V 10% change in line voltage</p> <p>Line regulation $\leq \pm 0.1\% + 2 \text{ mV}$ for load change on zero to full load</p> <p>Ripple and Noise 1 mV RMS Max. 20 Hz to 20 MHz</p> <p>Stability under constant line, load and temperature - in Constant Voltage mode < $\pm 0.2\% \pm 10 \text{ mV}$</p> <p>Stability under constant line, load and temperature - in Current mode < $\pm 0.2\% \pm 0.5 \text{ mA}$</p> <p>Transient response 0.1 set to within 10 mV of set output voltage for load change from 50% to 90%</p> <p>Total output power Nominal: 900 Watts, Maximum: 2000 Watts</p> <p>Meters Display to indicate Volts and Amps.</p> <p>Voltage and current accuracy $\leq \pm 0.5\%$ ref. voltage 1 volt</p> <p>Terminals Provided on the front / rear panel</p> <p>INPUT</p> <p>voltage / Frequency 220 V $\pm 10\%$, 50 Hz, Single Phase AC</p> <p>Total input VA 1300 VA or better @ 65% efficiency</p> <p>Input current rating Nominal: 5.05 Amps @ 220m Volts, Maximum: 0.28 Amps @ 207 Volts</p> <p>Connection 3 Pin, 15 Amps Moulded cord</p> <p>PROTECTION</p> <p>Overload & Short circuit (Through CC/CV Mode) DC Fuse + MCB as well as AC MCB or over voltage protection / over current protection</p> <p>ENVIRONMENTAL</p> <p>Operating Temperature 0 to 55 deg C</p>	Electronics Mechanics	2 Nos.	0.0276	0.0552	Competitive Bidding
132.	LCR meter (Digital) Handheld	<p>Equivalent Circuit Parallel and Series</p> <p>Input impedance AC and DC Voltage 1M ohm</p> <p>Measurement parameters Inductance (L),Capacitance (C),Resistance (R),DC Voltage,Frequency</p> <p>Storage Vinyl Pouch</p> <p>Features Overload indication,Backlight Display,Damaged or open fuse detection function,,Strong Protective Holster,,Max, Min and Avg recording,,Auto-Power Off,Relative mode with zero reference or user supplied reference,Automatic blown fuse indication,,MAX HOLD facility,DATA HOLD facility,Low battery indication,Diode Test,Continuity Test,Duty Cycle,Transistor hFE test,Auto Zero Mode</p> <p>Basic Accuracy L (rdg-Reading, dgt-Digit) $\pm (0.7\% \text{rdg} + 5 \text{dgt})$</p> <p>Test fixture/Test Leads External Test Leads</p> <p>Correction Function(Calibration Function) NA</p> <p>Ranging Mode Manual</p> <p>Measurement Range Duty Cycle 10% to 90%</p> <p>Maximum counts of LCR Display 1999</p> <p>Measurement Range Frequency 2KHz to 15MHz</p> <p>Basic Accuracy R (rdg-Reading, dgt-Digit) $\pm (0.5\% \text{rdg} + 3 \text{dgt})$</p> <p>Maximum counts of Q.D.R Display 9999</p> <p>No. of Digits in LCR Display 3.5</p> <p>Measurement Range DC Voltage 0-10V</p> <p>Display Digital LCD Display</p> <p>Measurement Range AC Current 20mA to 10A</p> <p>Measurement Range Q 0.001 to 1999</p> <p>Measurement Range D 0.001 to 1999</p> <p>Measurement Range L 2000microH to 10000H</p> <p>Basic Accuracy C (rdg-Reading, dgt-Digit) $\pm (2.0\% \text{rdg} + 10 \text{dgt})$</p> <p>Measurement Range C 2000nf to 10mF</p>	Electronics Mechanics	1 No.	0.575	0.575	Competitive Bidding

		<p>Test Frequency (in Hertz) 1000 Internal Power Source Six AAA 1.5V batteries No. of Digits in Q.D.R Display 4 Digits ACCESSORIES Test leads pair Measurement Range DC Current 20mA to 10A Basic Resolution L 0.001 microHenry Basic Resolution C 0.1 picoFarad Basic Resolution R 1m ohm Display digit Size mm 14mm PC connectivity interface NA Measurement Range ? (Phase Angle) 0.00 degree to +/- 180.0 degree Measurement Range Z, R, X 20 ohm to 10M ohm</p>	Electronics Mechanics				
133.	CRO Dual Trace	<p>Bandwidth 20 megaHertz Number of Channels 2 Vertical Sensitivity 5mV/Div to 20V/Div Time Base Range 2.5.1 Time Base Accuracy 2 percent DISPLAY Display Type monochrome CRT Display Size 8 x 10 (cmXcm) GENERAL FEATURES Coupling AC/DC and Ground Trigger Types External,pattern/state Inbuilt Function Generator no Rise Time 11.6 nanosecond Time Base coefficients 0.5 microsec/cm to 0.2 sec/cm Trigger system Automatic and normal Source CH 1,CH 2,ALT,LINE,EXTERNAL Slope Positive /Negative Trigger Bandwidth 40 megaHertz Frequency Counter Range 40 Mega Hertz Computer Interface USB Max Input voltage 300 V (CAT II) Power Supply 230V ± 10% , 50Hz ACCESSORIES Standard Accessories covered in the scope of supply Two 10X Probes Two BNC- BNC Cables ,Power Cord ,Manual, Calibration Certificates Additional features/functions if any ONE BNC- CROCODILE CABLE OPERATING CONDITION Minimum Operating Temperature 0 degree Celsius Maximum Operating Temperature 50 degree Celsius Operating Humidity(RH) 80 percent TEST REPORT DETAILS & TESTS</p>	Electronics Mechanics	2 Nos.	0.25300	0.5060	Competitive Bidding
134.	Signal Generator with Digital Display for Frequency Amplitude	<p>RF Signal Generator Frequency Range(Hz) 9 KHz to 1 GHz Maximum Output Level (dBm) 5 Minimum Output Level (dBm) -105 Non Harmonics declared at >10 KHz carrier offset Reverse Power Protection(watt) 2 Watt VSWR on all operating frequencies 1.3 Maximum Amplitude Modulation Frequency (3 dB),f > 100KHz 20 kiloHertz Minimum Amplitude Modulation Frequency (3 dB), f > 100 KHz 10 Hertz Amplitude modulation depth(%) 0-90 Resolution of AM 0.1 percent AM Distortion at 1 KHz 2 percent Maximum Frequency Modulation Frequency(-3 dB)Standard 20 kiloHertz Minimum Frequency Modulation Frequency (-3 dB) Standard 10 Hertz Minimum Frequency Deviation 0 kiloHertz Maximum Frequency Deviation (KHz) 20 inch Phase Modulation Not-Available Pulse Modulation Not-Available Memory(Minimum Storage Settings) 1200</p>	Electronics Mechanics	2 Nos.	0.0460	0.0920	Competitive Bidding

135.	Battery Charger	<p>Battery charger 0 - 6 - 9 - 12 - 24 - 48 V, Battery Charger 30 Amp Float cum boost charger (FCBC) type Thyristor based Hot stand by module for redundancy No FCBC suitable for charging of Lead Acid SMF VRLA type Voltage 230 V +/-10%, 1 Phase AC Power factor (50% load to 100% load) Maximum 0.8 Efficiency (in %) >= 90 Nominal voltage 48 V Output rating 25 A Net Regulation +/- 1% Audible Noise < 60 dB Battery Current Limit 0.1 Ah of battery Enclosure protection IP 20 Display Digital Operating Temperature 0 deg C to 50 deg C Cooling type Natural cooling</p>	Electronics Mechanics	1 No.	0.026	0.026	Competitive Bidding
136.	Analog multimeter	<p>Analog Multimeter Specifications (Temperature : 23±2 °C humidity 75 % RH max. No condensation) Drop shock proof A taut-band structure is adopted in the meter part. The meter part is designed to withstand shock. Circuit protection The circuit is protected by fuse even when voltage of up to AC 230 V is impressed on each range for 5 seconds. Internal battery R6 (IEC) or UM-3 1.5 V X 2 Internal fuse F500 mA/250 V Ø5.2 X 20 mm Fast acting fuse Operating temperature and humidity range 5 ~ 31 °C, 80 %RH max. 31 < ~ 40 °C, 80 ~ 50 %RH (decreasing linearly) Withstand voltage 6 kV AC (1 min.) between input terminal and case</p>	Electronics Mechanics	4 Nos.	0.009	0.0216	Competitive Bidding
137.	Clamp meter	<p>Type Hand Held Display 3.5 digit Backlit LCD Measurement Type True RMS count 3000 MEASUREMENT FEATURES Resistance Measurement Range 4 kiloOhm Resistance Measurement Accuracy (+/-) 1 percent Frequency Measurement Range 1 kiloHertz Frequency Measurement Accuracy (+/-) 0.5 percent AC Current Measurement Range 100 Ampère AC Current Measurement Accuracy (+/-) 2 percent AC Voltage Measurement Range 600 Volt AC Voltage Measurement Accuracy (+/-) 1.5 percent DC Current Measurement Range 100 Ampère DC Current Measurement Accuracy (+/-) 1 percent DC Voltage Measurement Range 400 Volt DC Voltage Measurement Accuracy (+/-) 1 percent GENERIC Jaw Size (Dia in Closed State) 30 millimeter Dimensions (H x W x L) (mm x mm x mm) 220 x 85 x 46 Weight 608 gram POWER REQUIREMENTS Power Requirements Battery Operated Type of Battery Non- Rechargeable if Non-rechargeable , then size of the battery / cell AAA Number of non- rechargeable the battery / cell 2 Voltage of rechargeable Battery milliampere hour 0 OPERATING CONDITION Minimum Operating Temperature -5 degree Celsius Maximum Operating Temperature 55 degree Celsius Operating Humidity (RH) 90 percent</p>	Electronics Mechanics	2 Nos.	0.00	0.01	Competitive Bidding

143.	Milli Ammeter (DC)	Type of Meter Analog Supported power type DC Phase Input supported in case of AC Single Phase Range of Milliampmeter (mA) 0-500 Resolution 0.1 milliAmpère Accuracy % 1 Operating Temperature(Deg Celcius) 0-55 Construction Length(cm) 3-6 Width(cm) 18-21 Height(cm) 3-6 Weight 100 gram Type of scale in case of Analog 90 Deg Body Material ABS	Electronics Mechanics	2 Nos.	0.006	0.012	Competitive Bidding
144.	Op Amp trainer	Operational amp. trainer 741 IC with 5 volt to 15 volt DC power supply and all electronics components Inbuilt Variable/Fixed DC Regulated Power Supplies Output Voltages : 0-5VDC (2Nos.) (Variable), +12VDC (Fixed) ICs, Transistor & Components Provided IC : 741 Transistor : CL 100 (NPN) Resistances Capacitors High quality Aluminum used as front panel of 270 mm x 170mm & mounted on light weight shock proof plastic cabinet. Circuit diagram printed on Aluminum Front Panel & all important test Points are brought out on front panel Power requirement : 230 VAC 10%, 50Hz. Weight : 1.0Kg Approx. Dimensions (mm) : 300(L) x 175(B) x 75(H)		2 Nos.	0.0311	0.0621	Competitive Bidding
145.	Digital IC Trainer	Digital IC Trainer 10 Logic Input switches with LED Indication for logic low and logic high. 10 LED for output indication with LED Driver. Fixed Clock generation of 128 KHz, 64 KHz, 32 KHz, 16 KHz, 8 KHz, 4 KHz, 2 KHz, 1 KHz, 500 Hz. Logic Pulsar provides single pole double throw bounce less pulses of Low to High and High to Low transitions. Solder less Breadboard with 840 tie points. 1 No's of Breadboard. Two seven-segment LED display with decoder driver and provision for BCD input Fixed DC Power Supply: +5V/500mA, -5V/500mA +12V/500mA, -12V/500mA. Input supply 230V + 10%, 50Hz AC voltage Trainer is housed in a strong, wooden cabinet. All interconnections (Input/output) are made using 2mm banana Patch Cords.	Electronics Mechanics	4 Nos.	0.0748	0.2990	Competitive Bidding
146.	Digital IC Tester	Digital IC Tester ZIF 40 pin and DIP Socket , 28 keys with 9 digit seven segment display 230 volt supply Tests most of the 6 to 40 pin ICs in DIP package as per give in Test Library Automatic testing of variety of Ics Potential free 40 pin universal ZIF socket Six Seven Segment/16x2 LCD Display It has 16/12 keys for its operation Audio alarm to user whenever it is required Power requirement : 220 VAC +10% , 50 Hz Weight : 1.0Kg Approx.	Electronics Mechanics	1 No.	0.0276	0.028	Competitive Bidding
147.	Digital and Analog Bread Board Trainer	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		6 Nos.	0.039	0.235	Competitive Bidding
148.	Rheostats various values and ratings	Rheostate 1000 ohms , 0.5 amp , 1200 ohms ,0.5 amp , 3.5 ohm ,10 amp	Electronics Mechanics	2 Nos. each	0.023	0.046	Competitive Bidding
149.	POWER ELECTRONICS TRAINER with at least 6 no's of application board MOSFET Characteristics SCR Characteristics SCR Lamp Flasher SCR Alarm Circuit Series Inverter Single Phase PWM Inverter	1. 12V DC fan is provided separately for DC fan speed control experiment on the front panel with connecting 2mm sockets(Red & Black). 2. Separate Oven is provided with thermometer for temperature control experiment. 3. Separate 4mm shrouded sockets(Black) are provided marked as "TO Load(AC FAN & LAMP)" to connect AC fan or lamp 4. 220V AC is available on 4mm shrouded sockets(Black) marked as "AC Supply 220V AC" on front panel. 5. Circuits for different experiments are printed separately in blocks on front panel. 6 Single phase PWM Inverter		4 No.	0.081	0.322	Competitive Bidding

150.	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.	<p>Processor 11th Gen Intel® Core™ i5-1135G7 (8 MB cache, 4 cores, 8 threads, up to 4.20 GHz Turbo)</p> <p>Operating System Windows 11 Home Single Language, English</p> <p>Video Card NVIDIA® GeForce® MX330, 2 GB GDDR5</p> <p>Monitor 23.8", FHD 1920x1080, 60Hz, Non-Touch, Anti-Glare, InfinityEdge</p> <p>Memory 8 GB, 1 x 8 GB, DDR4, 2666 MHz</p> <p>Hard Drive 1TB M.2 PCIe NVMe Solid State Drive (Boot) + 1TB 5400 rpm 2.5" SATA Hard Drive (Storage)</p> <p>Stand A-Frame stand</p> <p>Microsoft Office Office Home & Student 2021</p> <p>Security Software Multi Device Security 15-month subscription</p> <p>Keyboard Wireless Keyboard Mouse Wireless mous</p> <p>Ports 1 Rear USB 2.0 Type A, 3 USB 3.1 Gen 1 Type A, 1 USB 3.1 Gen 2 Type-C, (Dell PowerShare accelerated charging on USB 3.1 type-A port during S1/S3/Modern Standby,S4, and S5), 1 RJ-45 10/100/1000, 1 Microphone/Headset Jack, 1 DC power 1 HDMI-In, 1.HDMI-out (1.4)</p> <p>Below: Speaker Power Input mode Power on/Wake from USB KBMS from S3/Modern Standby ,S4, S5 Slots 1 SD Card Reader 3.0 Rear security lock slot Speaker Input mode</p> <p>Dimensions & Weight Black Bipod : 16.25"(412.9 mm) x 21.24"(539.8 mm) x 1.64"(41.8 mm) Silver Arch : 16.25"(412.9 mm) x 21.24"(539.8 mm) x 1.64"(41.8 mm) Silver A-Frame : 16.25"(412.9 mm) x 21.24"(539.8 mm) x 1.64"(41.8 mm)</p> <p>Wireless Intel® Wi-Fi 6E 2x2 (Gig+) and Bluetooth 5.1</p>	Electronics Mechanics	4 Nos.	0.46	1.84	Competitive Bidding
151.	Laptops latest configuration	Laptop CPU:32/64 bit ,core i9 processor , z390 motherboard , 8 gb ddr 4 RAM , 1 TB SATA HDD , 120 GB SDD , WITH DVD DRIVE, WI-FI ENABLED , N/W CARD INTEGRATED GIGA BIT ETHERNET WITH USB MOUSE , KEYBOARD ,21" MONITOR LICENISED OS AND ANTIVIROUS WITH WINDOWS 10.	Electronics Mechanics	1 No.	0.2875	0.2875	Competitive Bidding
152.	Laser jet Printer	Laser jet printer Internal Memory 256 mb Printing Method Laser Active Noise Level 53 db,DisplayYes,Display Specifications2 Line Backlit Display Output Tray capacity150 pagesInput Tray capacity250 PagesSupported media60 g/m2Paper handling optional, input50Rated Voltage 220 V-240 VRated Frequency50 HZ-60 HZConsumption (active)495 watt consumption (off) 0.5 watt energy efficiency .	Electronics Mechanics	1 No.	0	0	Competitive Bidding
153.	INTERNET BROADBAND CONNECTION	Internet broadband connection with 100 mbps speed	Electronics Mechanics	1 No.	0.0288	0.0288	Competitive Bidding
154.	Electronic circuit simulation software with 6 user licenses	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.	Electronics Mechanics	1 No.	0.1840	0.1840	Competitive Bidding
155.	Different types of electronic and electrical cables, connectors, sockets, terminations.	1. Multicore flexiable cable 2 . Cat 06 Cable, 3 . Optical Fibre Cable, 4 . Data Cable, 5 . Multimeter lead cable with standard size 6 termination 7 rj -45 connectoer	Electronics Mechanics	10 mtr each (sr no 1 to 4) 5 nos of pairs 5 no each 10 no	0.0460	0.0460	Competitive Bidding
156.	Different types of Analog electronic components, digital ic's ,power electronic components , general purpose PCB's ,bread board ,MCB , ELCB	1. Resistors different ratings 2 diode IN 4007 3 . Capictor different ratinds 4. Inductor (different ratings)----- 10 no. each, 5. Ic 555,Ic 741, Ic 7812,Ic7805,Ic7912,Ic7905 (5 no. each) 6 . General purpose PCB's(5 no.) , 7 . bread board(05) , 8. MCB - 16 AMP 9 . ELCB - Rated Current-16 amp , Sensitivity-30 / 100 / 300 ma,Voltage-240/415V, Rated Current 16 / 25 / 32 / 40 / 63 A Sensitivity 30 ma Voltage 240 Number Of Poles-2 pole single phase	Electronics Mechanics	1- 20 nos 2- 20 nos 3 20 nos 4-- 20 nos 5- 5 no each 6- 5 no 7- 5 no 8- 2 no 9- 2 no	0.575	0.575	Competitive Bidding

157.	DSO (colour)	<p style="text-align: center;">INPUT CHANNELS</p> <p>Type of input channels Analog,Analog and Digital (Mixed Signal) Number of Analog Channels 2 Record Length Per Analog Channel Simultaneously 100K points Sampling Rate Per Analog Channel Simultaneously 1 GS/sec Digital Channels Number of Digital Channels 8 Record Length Per Digital Channel Simultaneously 100K point Sampling Rate Per Digital Channel Simultaneously 1GS/sec</p> <p style="text-align: center;">PERFORMANCE FEATURES</p> <p>Bandwidth 70 megaHertz Operating System Windows</p> <p style="text-align: center;">DISPLAY</p> <p>Display Type colour TFT Minimum Display Size 7 inch</p> <p style="text-align: center;">MEASUREMENTS FEATURES</p> <p>Vertical Sensitivity 2mV/Div to 5 V/Div Vertical Resolution 8 bit Frequency Analysis In-built Frequency Counter Time Base Range 2 ns/div-100 s/div Time Base Accuracy 20 parts per million</p> <p style="text-align: center;">GENERIC</p> <p>Minimum Detectable Pulse Width 10 nanosecond Memory Upgradability Segmented Memory Feature Availability Waveform Update Rate (Waveform/sec) 250000 Coupling AC,DC,GND</p> <p>Trigger Types Edge,pulse width,video,pattern/state,External,Zone Qualified triggering,runt,setup/hold,pattern,burst</p> <p>Measurements Math function-Add, subtract, multiply, divide,Automatic Measurements of Amplitude and time,FFT (phase),low-pass filter,Frequency Domain function</p> <p>Acquisition Modes Normal,Peak Detect,Averaging,High Resolution,Roll Mode,Sample,Envelope,Waveform database</p> <p>I/O Interface USB,LAN Port/GPIB,Software for waveform analysis Power Source 230 V AC</p> <p style="text-align: center;">ACCESSORIES</p> <p>Standard Accessories to be supplied Probes, UM,CD..etc</p> <p style="text-align: center;">OPERATING CONDITION</p> <p>Minimum Operating Temperature 0 degree Celsius Maximum Operating Temperature 50 degree Celsius Operating Humidity (RH) 70 percent</p>	Electronics Mechanics	1 No.	0.288	0.288	Competitive Bidding
158.	Soldering & De soldering Station	<p style="text-align: center;">Soldering & De soldering</p> <p>Temperature range 200 deg C to 450 deg C Temperature accuracy ± 10 deg C Temperature stability ± 5 deg C No. of channels (Minimum) 2 Power consumption 150 W to 300 W Soldering iron rating (minimum) 80 W Desoldering iron rating (minimum) 80 W Power supply 230 Volt +/-10% Out put voltage 24 V Power cord length (Minimum) 1.2 Mtrs Display LCD</p> <p>Operating temperature range and humidity - Must declare 160 degree c to 480 degree c & 95</p> <p style="text-align: center;">ACCESSORIES</p> <p>Chisel bits for soldering iron 0.8 mm , 1.6 mm, and 2.4 mm (one number from each) Knife bit for soldering iron 2 mm Gull wing bit soldering iron 45 degree, 2.3 mm Desoldering nozzle inner dia 1.0 mm, 1.2 mm and 1.8 mm (one number from each) User manual for soldering and desoldering station YesStation</p>	Electronics Mechanics	:	0.023	0.023	Competitive Bidding
159.	SMD Soldering & De soldering Station with necessary accessories	<p>Power consumption 250W High quality heating element Diaphragm air pump Air flow 23e/min (maximum) Supply with Air Nozzle Power requirement : 220 VAC +10% , 50 Hz Necessary Accessories</p> <p>1 x Soldering Iron 1 x Hot Air Gun 1 x Station 3 x Nozzles of Different Sizes 1 x Stand with Sponge 1 x Supply Cord</p>	Electronics Mechanics	2 Nos.	0.046	0.092	Competitive Bidding

160.	Frequency modulator and Demodulator trainer kit	Message Signal : Sine wave Frequency 2 KHz to 4 KHz Amplitude : 3v Modulation : XR 2206 Based. Demodulation : PLL Detector & LPF. Low Pass Filter : 4th Order LPF. Supply Voltage (Board) : +12V, +5V / DC. Input Voltage : 230 V/ 50 Hz AC.	Electronics Mechanics	2 Nos.	0.253	0.506	Competitive Bidding
161.	PAM, PPM, PWM trainer kit	In built IC based DC regulated power supply +12V, + 5V/ 300mA On board sine wave audio frequency signal generator Frequency : 1 KHz & 2KHz Amplitude : 0-10Vpp & 0-4Vpp Approx. On board square wave signal generator Frequency : 1 KHz & 2KHz Amplitude : 5Vpp Approx. On board sampling pulse generator Frequency : 8KHz, 16KHz, 32KHz, 64KHz Amplitude : 5Vpp Approx. Demodulation of PAM/PPM/PWM using 4th order / low pass filter & AC amplifier using TL 074 with adjustable gain control Voice Communication: Voice Link using dynamic Mic & Speaker DC Output : 0-4V (Variable) 8 Nos. Fault Switches & 29 Test Points Glass Epoxy PCB used as front panel of 400mm x 225mm & mounted on shock proof cabinet Circuit diagram printed on Glass Epoxy PCB & all important IC's & test points are brought out on front panel Power requirement : 220 VAC +10%, 50Hz	Electronics Mechanics	2 Nos.	0.081	0.161	Competitive Bidding
162.	AM/FM Commercial radio receivers	Table top radio with 180mW RMS Sound output Telescopic Aerial Power Source: Battery: 2xR20 (UMI) External 3V DC (optional) Telescopic Antenna - AM Frequency Range: 520 - 1605 kHz AM and 88 - 108 kHz FM Batteries 1 Lithium Ion batteries Hardware Interface 3.0 V TTL Voltage 3 Volts Power Source Battery Powered Batteries Included YES Battery Cell Composition Lithium Ion GSM frequencies 0.11 MHz Radio Bands Supported AM/FM		2 Nos.	0.023	0.046	Competitive Bidding
163.	Microcontroller kits (8051) along with programming software (Assembly level Programming)	Microcontroller kit(8051) CPU : 8 BIT MICRO CONTROLLER, MEMORY : total on board capacity 32 kb , RAM : 2 kbyte , Display : 20x2 lcd , Interface : 1. serial UART Interface provided by 8031/5189c /51/52 /58 2. 8 output led , 8 bit 8 channel 4 input switch , printer interface , microcontroller programmer Power supply : +5 volt Operating temp : 0-50 c	Electronics Mechanics	4 Nos.	0.181	0.736	Competitive Bidding
164.	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 7. Thumb wheel switch interface 8 elevator simulator interface 9. traffic light control interface		1 set	0.621	0.621	Competitive Bidding
165.	Sensor Trainer Kit Containing following Sensors 1. Thermocouple transducer 2. RTD 3. Load Cell/ Strain Gauge 4. LVDT 5. Smoke Detector Sensors 6. Speed Sensor 7. Limit Switch 8. Photo sensors 9. Optocoupler	Sensor trainer kit: 1. Thermocouple transducer K TYPPE 5 Volt 2. RTD - PT100 3. Load Cell/ Strain Gauge- range 0-10 kilo resolution 0.01 kg 4. LVDT- 3.5 DPM VOLTMETER Power suply 5 volt dc 5. Smoke Detector Sensors- IC NE 555 Relay transitro , diode, buzzer , resistance and capacitor 6. Speed Sensor - proximity sensor - npn 7. Limit Switch 8. Photo sensors 9. Optocoupler 10. Proximity Senso Graphical touch LCD with inbuilt processor for viewing the output waveforms, In built DAQ, and standard processing circuits like Inverting , Non - Inverting , Power, Current ,Instrumentation Differential Amplifier,	Electronics Mechanics	2 Nos.	0.690	1.380	Competitive Bidding

	10. Proximity Sensor	F/V,V/F,V/I,I/V Converter, Sensors :RTD,NTC Thermistor,LM35 Thermocouple, Gas(Smoke) Sensor, Load cell, LVDT Sensor, Speed Sensor					
76.	Various analog and digital ICs useful for doing project works mentioned in the digital and analog IC applications modules	7400 , 7406,7408,7415,7418,7420,7465,7425,7485,7412,7423 etc and 4001 ,A005,4007,4011,4012,4016,4021ICs	Electronics Mechanics	2 no each	0.0483	0.0483	Competitive Bidding
166.	Different types of electronic and electrical cables, connectors, sockets, terminations.	1. Multicore flexible cable 2 . Cat 06 Cable, 3 . Optical Fibre Cable, 4 . Data Cable, 5 . Multimeter lead cable with standard size 6 termination BC 547, BC 548 7 rj -45 connectoer		10 mtr each (sr no 1 to 4) 5 nos of pairs 5 no each 10 no	0.25	0.03	Competitive Bidding
167.	Fiber optic communication trainer	Fiber optic communication trainer Input voltage 220VAC Output 6 volt output current 150 mA for 6 volt Power supply load regulation > 50 Mv Ripple > 10 mvR Accessories : 1 eight single point (4mm) patch cord for interconnection 2. mic with 2 meter long lead and plug 3. speaker 4 inch 4 ohm mounted in wooden box 5. ofc cable 1 mtr	Electronics Mechanics	2 Nos.	0.2760	0.5520	Competitive Bidding
168.	Seven segment DPM trainer	Seven segment DPM trainer Technical Specification: Power Supplies: • DC Power Supply +0-30V,250mA • AC Power Supply 0-9V,250mA • Operated on Mains power 230V, 50Hz +10% • COMPONENTS: • 7107 IC • LT 542 FND 4NOS. • CAPACITORS • RESISTORS • 4 Different Load Resistor For Current measurement • 4 Different Ranges for Voltage Through Rotary Switch • 4 Different Ranges for Current Through Rotary Switch • Dot Selection		6 Nos.	0.0851	0.5106	Competitive Bidding
169.	LCD based DPM	LCD based DPM 16 Characters x 2 Lines Green Backlight 5x7 Dot Matrix Character + Cursor HD44780 Equivalent LCD Controller/driver Built-In 4-bit or 8-bit MPU Interface Standard Type Works with almost any Microcontroller	Electronics Mechanics	6 Nos.	0.0368	0.0736	Competitive Bidding
170.	SMPS of different make	Line effect +/-1% out put regulation for 180- 264 Vac input variation Maximum power Out put (In Watts) 200 Output voltage +5 V / 4-20A , -5 V / 0-0.5A Minimum Efficiency at nominal input and rated load (in %) 70 Load regulation for a variation of load from Min.to Max. load and vice versa for the out put +/-5% (Under test and output at 50% load Periodic and random deviation (PARD) +5V / 50 mV , -5V / 100 mV Dynamic load regulation (load change from Min. to Max. rated load), +/-3% Effect of power interruption No output drop out for 0.5 cycle (10 ms) input loss No.of power interruption and rate of interruption 100 times at the rate of 6 operation per minute Cross regulation (The output under test shall be loaded at 50% and the other loads shall be varied tfrom minimum load to till load) +/-5% Maximum In-rush current at rated input voltage (in A, Peak) 20 Minimum Hold up time at rated load and minimum input voltage (in ms) 20 SMPS 1 . Electrical Characteristics 24V, 3A 1. Input Voltage 100 – 270V AC 2. Output Voltage 24 V DC 3. Output Current 3A 4. Leakage Current @ 230 V ac < 2mA 5. Line regulation < 1% 6. Load regulation < 1% 7. Ripple content 150mV p-p 8. Dielectric strength: Between Input & Output 2 kV AC Between Input & Earth 1.5kV AC Between Output & Earth 1.5kV AC SMPS 2 •Output Voltage; 12V•AC inrush current (max.) Cold start, 45A at 230VAC •DC adjustment range ±10% by potentiometer•Overload protection Range	Electronics Mechanics	4 Nos.	0.1449	0.8694	Competitive Bidding

		<p>110%~150%</p> <ul style="list-style-type: none"> •Auto-Recovery After Protection•Universal AC input / Full range •100% Full Load Burn-in Test•Cooling by Free Air Convection •High Quality and High Performance•LED power supply with a metal body for hidden installationfor LED lighting•Design with Built-in EMI Filter, improve signal precision. •Category - Switch Mode Power Adaptor (SMPS)•MTBF >50,000 hours •Output Type - DC•Output - 12VoltsShell Material: Metal Case / Aluminum Base 					
171.	UPS trainer	<p>Input voltage : 150 v to 260 v +- 10 % ,50 hz Transformer voltage : 140 v ac , Maximum load 600 v output voltage 230v battery voltage 12 v , 7.5 amp Transformer 12v-0- 12 v Acinput 0-190 v-220240-260 v Technology PIC Microcontroller , Alarm Buzzer sound</p>	Electronics Mechanics	1No.	0.062100	0.24840	Competitive Bidding
172.	UPS	<p>UPS 5 KVA WITH BATTERY ,3 Phase In 1 Phase Out,15 KVA, 12 KW,250*610*650 in mm ,Exide Battery, Amaron Battery, Power (Watts- 16000), Input Frequency- 50/60 Hz +/- 5 Hz (auto sensing), Three Phase In, Single Phase Out UPS, Advanced PFC Technology,High End IGBT Based., Shot Circuit Protection,Noise Level-Less than 50dBA @ 1 Meter (With Fan Speed Control), LED Display-Mains, UPS, Over Load, Battery Low, Fault Indication,etc,Switch from Mains to UPS- Automatic,Switch from UPS to Main-Automatic, NPUT VOLTAGE RANGE--160-270 VAC, INPUT PIWER FACTOR. >0.9, INPUT FREQUENCY-- 45 -55Hz, OUTPUT VOLTAGE--230/2% 50Hz, OUTPUT POWER FACTOR--0.8, FREQUENCY-- 50Hz+/0.5%, EFFICIENCY-->85%, WAVE FORM--PURE SINE WAVE, TOTAL HARMONIC DISTORTION (THD)--3% FOR LINEAR LOAD, >6% NON LINEAR LOAD, 25% FOR 60 SEC, BACK UP TIME-- MINIMUM 2 HOURS BACK UP, BATTERY BACK UP AND WITH BATTERY RACK--SMF BATTERIES WITH MINIMUM OF 6240 VAH FOR 2Hrs. WITH BATTERY RACK, CHARGER CAPACITY-- <8 HOURS UP TO 90%, BATTERY MAKE--DGSED OR JIS C8702 COMPLAINT, PROTECTION-- LOW BATTERY, OVER LOAD CAPACITY--UP TO 1 TEMPERATURE , SHORT CIRCUIT, OPERATING TEMPERATURE--0.40 C, OPTIONAL-- RS 232/USB, SNMP COMPATIBILITY, NOISE--<50 DB UPTO 1 METER, PRODUCT QUALITY STANDARD AND CERTIFICATION-- ISO 9001:2008, 14001:2004 & BIS CERTIFICATION, COMPATIBILITY--DG SET</p>	Electronics Mechanics	As required	0.21850	0.21850	Competitive Bidding
173.	Mobile phone Trainer	<p>Mobile phone trainer 4G Dual SIM GSM Handset. Frequency measurement and band verification. Real time Mobile Operation Frequency 900/1800 GHz Voltage 9V-12V Baud Rate 300-115200bits/s operating voltage 230Vac Output Power 2/1W</p>		1 No.	0.184000	0.18400	Competitive Bidding
174.	Smart phones of different make (android/Windows)	<p>Smart phone :Processor 2.8 GHz, snapdragon 768 G ram -min. 6 GB , android version 12 , HDD-256 GB , Display -amoled , battery 5000mAh with accessory .</p>	Electronics Mechanics	4 Nos.	0.046000	0.04600	Competitive Bidding
175.	Cell phone power source with charger chords for different cell phones	<p>Cell phone power source 20000 MAH power bank USB cable with 4 output coard power supply 5v/3 A, 9V/3A,12 V /3 A with battery backup indicator with adaptor, Li-poly power bank ,</p>		As required	0.046000	0.184000	Competitive Bidding
176.	LCD TV (Trainer kit)	<p>LCD TV Trainer Specification: Aspect rartion : 4 :3 / 16:9 /zoom1/zoom2 Input signal : PAL-B/G,I,D/K Color system : Pal /ntse/scam Sound system : bg/dk/mn/l Receiving channel 1-199 Input power voltage : AX 100 -240 V , 50 HZ Signal I/o : PC (VAG) INPUT , HIGH DEFINATION , multimedia interface Troubleshooting : Fault switch F1 : CUTS + 12 VOLT DISPLAY OUTPIUT SUPPLY SO THAT LCD DISPLYA NOT WORK F2 : CUT THE SPEAKER OUTPUT that it not produce sound only picture . F3- USB SUPPLY (5V)DC WILL BE cut so it will not work and can be seent at tp5. F4: CUT the IR section so that remote function will not work . test point : tp1 : audio section out put wave form can be obsreve on extenal CRO . TP2 : IR sensor output wave form can observ on external CRO by pressing any remote key . tp 3 : Reference volatage from supply section to respection section in LCD card will be seen on external multimeter. tp 4 main circuit viltage will be see on external multimeter.</p>	Electronics Mechanics	1 No.	0.02300	0.0230	Competitive Bidding
177.	LCD TV (21")	<p>LCD TV Display Type A+ Grade Viewing Angle 178 Degrees Image Aspect Ratio 16:09 Image Brightness 280 nits Screen Resolution 3840 x 2160 pixel Audio Wattage 20 Watts Wattage 20 Watts Power Source AC</p>		2 Nos.	0.529000	0.529000	Competitive Bidding

178.	LED TV (Trainer kit)	LED TV Trainer : Aspect ratio : 16:9 format , 4:3 zoom 1, zoom 2 , Viewing angle : H/178 DEGREE , V/ 170 DEGREE Brightness : 5000 cd /m2 Response time : 5 ms, Display Color 16.7 M USB : 2.0 INPUT , COLOR SYSTEM Pal / ntsc/ secam Sound system : BG/ DK/ Receiving channel : 1-199 Input power voltage : AC 100 V -240 V +50/60 HZ WIDE FULL HD : 1080 P Fault : f1 cut reference voltage , main circuit voltage , usb operating voltage which can be seen at TP3 , TP 4 , TP 5 WITH the help of external multimeter so that it is almost dead. f2 : cuts the speaker output so that it produce no sound only picture TEST POINT T1 : Audio section output wave form can be observed on external CRO T2 : IR sensor output wave form can be observed on external CRO by pressing any remote key T3 : REFERENCE VOLTAGE from supply section to respective section in LED card will be seen on external multimeter .	Electronics Mechanics	1 No.	0.04600	0.09200	Competitive Bidding
179.	LED TV (21")	LED TV (21") Resolution: HD Ready (1366x768) Refresh Rate: 60 hertz Connectivity: 2 HDMI ports to connect set top box, Blu Ray players, gaming console 2 USB ports to connect hard drives and other USB devices, Dimensions(TV With Stand) - 71.3cm*20cm*46.9cm, VESA Hole Pitch - 20cm*20cm Sound : 20 Watts Output Dolby Audio Smart TV Features: Android TV 9.0 OnePlus Connect Google Assistant Play Store Chromecast Shared Album Supported Apps : Netflix, YouTube, Prime video Content Calendar OxygenPlay Display : LED Panel Noise Reduction Colour Space Mapping Dynamic Contrast Anti-Aliasing DCI-P3 93% colour gamut Gamma Engine Design: Bezel-less Screen/Body Ratio = 91.4%		2 Nos.	0.483000	0.48300	Competitive Bidding
180.	Home theatre system	Home theatre system Power Requirements: AC 220-240 V, 50/60 Hz Power output (RMS): 190 W Power consumption/Standby: 190 W/0.45 W Dimensions (W x H x D)/Weight: AV receiver: 435 x 168 x 320.5 mm/7.7 kg Front Speaker: 106 x 116 x 106 mm/0.6 kg Centre Speaker: 270 x 100 x 106 mm/0.8 kg Surround Speaker: 106 x 116 x 106 mm/0.6 kg Subwoofer: 285 x 318.5 x 300 mm/4.0 kg	Electronics Mechanics	1 No.	0.039100	0.078200	Competitive Bidding
181.	Solar Training Kit/ Simulator	Solar trainer 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		1 No.	0.07130	0.07130	Competitive Bidding
182.	LED lighting system	LED, CFL at variable input voltages 0 to 245V variable AC Measurement of Power, Voltage, Current, Power Factor and Light output performance of different lighting products	Electronics Mechanics	2 sets	0.230000	0.23000	Competitive Bidding
183.	Instructor's table	TABLE- 2.5*4*2.5 feet Table top made up to 18 mm thick pre laminated board thick lipping on edge. Understructure made up of MSERW square cube of size 30x30x1.6mm thick ,side,front , back panel made up of 18 mm pre laminated twin board . Table includes pedestal made up of combination of pre laminated panel and ms sheet . overall size 439W x729d 536 h . Color :Silver grey and teak , MS sheet , pipe roads , rod & angle ISI Marks.		1 No.	0.085100	0.170200	Competitive Bidding
184.	Instructor's chair	Chair-The metal framework shall be made from iron pipes painted by using electrostatic process.Diameter: 25 mm, thickness: 2 mm.The metal ends shall be covered with plastic covers. Plastic heels are to be installed under the chair.Chair back and seat- Seat measurement: 50 x 45 cm.Chair back measurements 50 x 22 cm , The back and the seat shall be made of plywood (sandwich) with a minimum thickness of 17 mm, best quality.The chair back and seat shall be upholstered press sponge (33/35).The thickness of sponge for the chair back should not be less than 4 cm and for the seat 6 cm.Thickness of painting (60 – 80) micron.	Electronics Mechanics	2 Nos.	0.07130	0.07130	Competitive Bidding
185.	Metal Rack	Metal rack size 100cm x 150cm x 45cm , Sheet Gauge -22 Angle guage :18 five Shelves Installation Type Free Standing Type of Steel CRCA Steel Surface Finish Powder Coated		4 Nos.	0.036800	0.073600	Competitive Bidding
186.	Lockers with 16 drawers standard size	Locker with 16 drawers Overall size : 600X700X450mm , Gauge 18 SWG, with 16 drawers Locking Arrangement Installation Type Of Steel CRCA Steel, The product shall be epoxy powder coated to the thickness of 50 micron, Color : prince grey /snowbell grey , Surface Finish Powder Coated MS sheet , pipe roads , rod & angle ISI Marks.	Electronics Mechanics	2 Nos.	0.39100	0.1564	Competitive Bidding
187.	Steel Almirah	Steel Almirah Size : 2.5 m x 1.20 m x 0.5 m , Steel almirah : The overall size of storage shall be 916 mm (w) x 486 mm (D) x 1980 mm (H) The construction shall be welded construction with 0.7 mm thick CRAC for shelf and 0.58 mm thick for back.The door should be made of 0.8 mm thick CRCA and all other metal component shall be made of 0.9 mm thick CRAC .The locking and handle of the storage shall be mazak handle with three way locking mechanism. The shelving shall be height adjustable and shall have a load capacity of 40 kg .The product shall be epoxy powder coated to the thickness of 50 micron, Color : prince grey /snowbell grey with atleast 5 shelves. MS sheet , pipe roads , rod & angle ISI Marks.		2 Nos.	0.16100	0.3220	Competitive Bidding
188.	Black board/white board	White board 4* 6 Feet , Primary Material -Ceramic , with alluminium frame easy for writing, paint, erasing, drawing pictures and signs.write with marker in white surface and with chalk on reverse green surface	Electronics Mechanics	1 No.	0.20700	0.4140	Competitive Bidding
189.	Fire Extinguisher	Fire Extinguisher operating pressure -250 bar , body material-mild steel , Capacity-2 kg ,Temperature Range- -30 to 60 deg C , Discharge Time- More then 08 sec.		2 Nos.	0.019550	0.019550	Competitive Bidding

190	Water cooled induction welding/ Brazing machine	200-250 Amp - induction coil length 3 inch and 2.5 inch input voltage- 220V-50Hz Oscillate power max -6KW Max input current - 28 Amp Oscillate frequency - 0.2-1.1MHz Cooling water desire > 0.2MPa 2-6L/Mm Max temperature - 1000 degree Temperature control - Manual Working temperature display - 3 digit digital Heating element - Copper alloy Temp - Display, variable temp. P/E, P/P, PVC sheet or pipe welding control with stand. Accessories. Voltage- 230V Frequency-50/60 Hz Power consumption-2500 watt Temperature range -20-500 C Air flow Max - 250 Liter/M Noise level - 20 Db.	Welder	1 No	1.5	1.5000	Competitive Bidding
191	Plastic welding machine with hot air gun	Frequency-50/60 Hz Power consumption-2500 watt Temperature range -20-500 C Air flow Max - 250 Liter/M Noise level - 20 Db.	Welder	1 No	0.15	0.15000	Competitive Bidding
192	Swaging and flooring tool kit 45° tubing	Size- 1/8 to 3/4 inch Size- 1/2,3/4,3/8,5/16,3/16,1/8,1/4,7/16 Angle - 45 degree Tool material - chrome vanadium steel Attachment - all size and vice Packaging - in wooden box Or Plastic Box Multi angle magnetic clamp set metal base(18x10x10cm) Size - 100-150 mm Angle -30,45,60,75,90,120 degree Material - 16 swg GI sheet Color- Powder coating Magnet - Inbuilt Magnet fixing - by rivet Center Hole -20mm dia	Welder	1 Set	0.05	0.05000	Competitive Bidding
193	Multiangle magnetic clamp set	Size - 100-150 mm Angle -30,45,60,75,90,120 degree Material - 16 swg GI sheet Color- Powder coating Magnet - Inbuilt Magnet fixing - by rivet Center Hole -20mm dia	Welder	1 Set	0.011	0.0110	Competitive Bidding
194	Welding helmet fiber	Size glass widw- 100 x 80 mm glass fitted with screw type fastner. Very sturdy and light weight Welding helmet. Head type-adjustable ratchet head gear type. Material - good quality Fiber	Welder	42 Nos.	0.0092	0.3864	Competitive Bidding
195	Welding hand shield fiber	Glass widw Size- 100 x 80mm glass fitted with screw type fastner for Standard vision. Very sturdy and light weight Welding hand shield. Handle should be fitted to hold the Hand shield. Material - good quality Fiber	Welder	42 Nos.	0.00345	0.1449	Competitive Bidding
196	Chipping hammer	weight -250 gm. Type- One side flat face and other side pointed face Handal type-handle drop forged double chisel Helical barrel spring type steel handle. Material - High carbon steel	Welder	42 Nos.	0.001035	0.04347	Competitive Bidding
197	Chisel cold	Length-150 mm Type- flat Cutting edge width/Face size minimum -19mm material- hot forged high carbon steel, cutting edge - Hardened & Tempered.	Welder	42 Nos.	0.004025	0.16905	Competitive Bidding
198	Centre punch	Length-127 mm Dia- 9 mm Angle 90 degrees (point shape) material- Carbon steel	Welder	42 Nos.	0.00092	0.03864	Competitive Bidding
199	Dividers	Length-200 mm long Type- spring with adjustable screw Dividing Range- (0-200 mm) carbon steel point hardened Material- Carbon steel (point hard and tempered)	Welder	42 Nos.	0.00046	0.01932	Competitive Bidding
200.	Steel rule graduated both in Metric and English Unit	Steel Rule Graduated both in Metric and English Unit 300 mm with precision of 1/4th mm Rules Width (mm): 18 mm Item weight minimum 77.1 g material of rule Tempered stainless steel	Welder	42 Nos.	0.00035	0.01449	Competitive Bidding
201	Scriber	150 mm length made of medium carbon steel and points should be hardend and tempered (BIS approved) 150mm length medium khurafing body of 9mm dia. Double pointed.	Welder	42 Nos.	0.000345	0.01449	Competitive Bidding
202	Flat Tonge	Tongy flat in size of 350mm long made of Mild Steel Courses Point mouth should be flat and Hand. Tonges should be good quality and easy to use	Welder	42 Nos.	-0.001891	0.07100	Competitive Bidding
203	Hack saw frame	Very duty Hand Hacksoo frame Fixed type made of Mild Steel solid flat and suitable for 300 mm blade filament. Fly nut and Both side pins should be good quality riveted With wooden handle.	Welder	42 Nos.	0.001150	0.048300	Competitive Bidding
204	File half round	300mm long bastard Half Round file with plastic/wooden handle made of high carbon steel manufactured as per IS 1931 2000. grade- Bastard double teeth - thickness 5 mm with handle (Plastic/wooden)	Welder	42 Nos.	0.006877	0.28834	Competitive Bidding
205	File flat	350mm long bastard Flat File with plastic/wooden handle made of high carbon steel manufactured as per IS 1931 2000. grade- Bastard double teeth - thickness 5 mm with handle (Plastic/wooden)	Welder	42 Nos.	0.00414	0.17388	Competitive Bidding
206	Hammer ball pane	Ball Pien Hammer 1 Kg, with handle (BIS approved) 1 kg made of drop forged mild steel with wooden handle length size 12 inch minimum.	Welder	42 Nos.	0.002875	0.12075	Competitive Bidding
207	Tip Cleaner	Tip Cleaner to clean the tip of gas welding blow pipe having 13 nos stainless steel reamers (6 to 13 Nos) with one file including aluminium/steel case.	Welder	42 Nos.	0.000332	0.013524	Competitive Bidding
208.	Try Square	Try Square 150 mm blade Material: Stainless Steel L Shaped 90 Degree right angle corner Length of Blade of in mm 150 Width of Blade of in mm (with ± 2 mm tolerance) 30 Width of the Handle in mm (with ± 5 mm tolerance) 130 Graduations marking should be provided on blade Yes Dimensions of Try Square (L x W x H) in mm x mm x mm 180x30x90 Weight of Try Square in gram 200	Welder	42 Nos.	0.000920	0.038640	Competitive Bidding
209	Spindle key	Standard size spindle key for opening the cylinder valve made of Hot Forged steel/Cast iron and should be minimum 100mm in length.	Welder	04 Nos.	0.000345	0.00138	Competitive Bidding
210	Screw Driver	Heavy Duty screw driver blade length 300mm, Blade thickness should be minimum 10mm. heat treated blade made of carbon steel & nickle chrome plated, (BIS approved) Tip shape should be flat. Handle made of composite hard plastic such as cellulose acetate and rubber.	Welder	01 Each	0.001725	0.001725	Competitive Bidding
211	Screw Driver	Heavy Duty screw driver blade length 250mm, Blade thickness should be minimum 8mm. heat treated blade made of carbon steel & nickle chrome plated, (BIS approved) Tip shape should be flat. Handle made of composite hard plastic such as cellulose acetate and rubber.	Welder	01 Each	0.001725	0.001725	Competitive Bidding
212	Number punch	Hardened medium carbon steel Number punch length minimum 75mm and 8 mm thick. Number punch set of 0 to 9 numbers with plastic case.	Welder	02 Set	0.00138	0.00276	Competitive Bidding
213	Letter punch	Hardened medium carbon steel Letter punch length minimum 75mm and 8 mm thick. Letter punch set of A to Z Letters(Capital letters) with plastic case.	Welder	02 Set	0.002473	0.009445	Competitive Bidding
214	Magnifying glass	Round Magnifying glass 100mm dia. convex lens round shape fitted in plastic frame minimum 5X zooming with handle.	Welder	02 Nos.	0.00115	0.0023	Competitive Bidding
215	Universal Weld measuring gauge	Universal Weld Measuring gauge For measurement of weld bead in Butt & fillet joints, minimum 75mm long in size and should be Available in Standard or Metric system.	Welder	02 Nos.	0.00005	0.0161	Competitive Bidding
216	Spanner D.E.	Double ended spanner set 6mm to 32mm made of chrome Vanadium steel (BIS approved) drop forged. size 6 X 7, 8 X 9, 10 X 11, 12 X 13, 14 x 15, 16 X 17, 18 x 19, 20 x 22, 21 X 23, 24 X 27, 25 X 28, 30 x 32.	Welder	02 Sets	0.006578	0.013156	Competitive Bidding
217	C-Clamps	100mm Clamps, Shape - C. Material - High grade Steel /cast iron hot drop forged. Jaw opening 100mm and square threaded heavy duty.	Welder	02 Nos.	0.00575	0.0115	Competitive Bidding
218	C-Clamps	150mm Clamps, Shape - C. Material - High grade Steel / cast iron hot drop forged. Jaw opening 150mm and square threaded heavy duty.	Welder	02 Nos.	0.00575	0.0115	Competitive Bidding
219	Hammer sledge	Double Face Sledge Hammer, Minimum 4 kg. With Wooden Handle Material-Forged Steel. Handle length should be minimum 450mm.	Welder	01 No.	0.00345	0.00345	Competitive Bidding
220	S.S tape	5 meters long S. S. Tape Flexible Material with foldable rotting in a PVC case. Measuring Scale graduation should be both Metric and British system like MM, CM, Meter, Inches & Feet	Welder	01 No.	0.000575	0.000575	Competitive Bidding
221	H.P. Welding torch	High Pressure welding Torch made of copper alloy having two control valves one for Oxygen and second for Acetylene, two inlet nipples and handle for holding. Along with a set of free nozzles 1,2,3,5,7 nos. BIS Approved.	Welder	02 Sets	0.014375	0.02875	Competitive Bidding
222	Oxygen Gas Pressure	Heavy duty double stage Regulator made of Brass/Copper alloy having Two pressure gauges(For Cylinder Pressure and working pressure) suitable for 200/230bar inlet pressure and imported safety pressure gauges design for 300 bar service pressure.	Welder	02 Nos.	0.020125	0.04025	Competitive Bidding
223	Acetylene Gas Pressure	Heavy duty double stage Regulator made of Brass/Copper alloy having Two pressure gauges(For Cylinder Pressure and working pressure) suitable for 20/25bar inlet pressure and imported safety pressure gauges design for 300 bar service pressure.	Welder	02 Nos.	0.020125	0.04025	Competitive Bidding
224	CO ₂ Gas pressure regulator	Heavy duty double stage Regulator conforming to IS 6901-2009 made of Brass/Copper alloy having Two pressure gauges(For Cylinder Pressure and working pressure) suitable for 200/230bar inlet pressure and imported safety pressure gauges design for 300 bar service pressure.	Welder	02 Set	0.022368	0.044735	Competitive Bidding
225	Argon Gas pressure regulator	Heavy duty double stage Regulator conforming to IS 6901-2009 made of Brass/Copper alloy having Two pressure gauges(For Cylinder Pressure and working pressure) suitable for 200/230bar inlet pressure and imported safety pressure gauges design for 300 bar service pressure.	Welder	02 Set	0.023905	0.04781	Competitive Bidding
226	Metal rack	Metal rack of size 1800mm x 1520 mm x 450mm made of MS angle iron 40°40°5° mm and sheet of 16 SWG & three sides covered with sheet & rigid frame & with 4 compartments.Painted with Black colour.	Welder	01 No.	0.023	0.023	Competitive Bidding
227.	First Aid kit	First Aid kit KEY FEATURES Scissor - 1. Antiseptic Wipes - 10 Stripes. Instant cold Pack - 1 Pkt. Povidine wipes - 5 Piece. Breathing Barrier - 1 Pkt. Adhesive bandage - 5 Pkt. Triangular bandage -1Pkt. Sterilised Dressing - 5 Pkt. Burn Dressing - 1 Pk. Snake Bite Lancet - 1 Pkt. Roller Bandage - 1 Pkt. Glaze Pad - 1 Pkt.	Welder	01 No.	0.012	0.012	Competitive Bidding
228	Steel lockers	Steel Locker with 08 Compartments Body made from 20 Gauge CR Sheet size(W*D*H)MM 1200*400*2160. Doors made from 22 gauge sheet, Door Handle Type-swing , Lock Type-Keyed,Method of Construction- Welded, dual color deco paint with a coat of Red Oxide.	Welder	02 Nos.	0.05175	0.1035	Competitive Bidding

229.	Almirah	Standard Steel Almirah having dimensions of 2.5 x 1.20 x 0.50 m, with cupboard as per IS 3312-1984 made of MS sheet 18 SWG, silver coated paint Five compartments adjustable type ,Good quality handle , Fitted with lock & key, with at least 5 shelves. M.S. Sheets, Pipes & angles	Welder	02 Nos.	0.05175	0.1035	Competitive Bidding
230.	Black board/white board	BOARD 4* 6 FEET , Primary Material -Ceramic , easy for writing, paint, erasing, drawing pictures and signs.write with marker in white surface and with chalk on reverse green surface	Welder	01 nos	0.03450	0.0345	Competitive Bidding
231	Flash back arrester (torch mounted)	A spring loaded non- return valve prevents slow or sudden reverse gas flow which could form explosive mixtures in the gas supply.	Welder	04 Pairs	0.0207	0.0828	Competitive Bidding
232	Flash back arrester (cylinder mounted)	A temperature sensitive cut-off valve extinguishes sustained flashbacks long before the internal temperature of the arrester reaches a dangerous level. A spring loaded non-return valve prevents slow or sudden reverse gas flow forming explosive mixtures in the gas supply.	Welder	01 Set	0.0173	0.0690	Competitive Bidding
233	Welding Transformer	Copper wound Welding Transformer conforming with IS 1851 : 1997 Input Voltage= AC 415V+/- 10%, 3 PH, Frequency= 50 Hz, O.C.V-60-100Volt, Output Current (minimum) 60- Output Current Capacity 40amps, forced air cooled type, Rated Duty Cycle= 60% , Efficiency = 65%, class of insulation A. For reading purpose Voltmeter and Ammeter should be there on front side of the Machine. Each and every parameter should be displayed on the Machine like- OCV, Arc Voltage, Current etc. Current setting regulator should be in machine.	Welder	01 Set	0.122	0.122	Competitive Bidding
234	Measuring Steel Tape	Case material PVC coated Fiberglass Blade material stainless steel Size,(m) 5 Lock Button eye Blade width,(inch) 1 Blade thickness,(mm) 0.5 Total weight,(kg) 100 Case Shape Round Strong copper rivet ensures a stronger end hook. YES	Solar Technician	42	0.00138	0.05796	Competitive Bidding
235	Combination Plier Insulated	Combination Plier Insulated 200 mm, Type of Hand Tool Combination Plier as per IS 6149 Type of Insulation Rubber Insulation Shape of Handles Bowled handle Type of Joint Parallel Action joint Type of Gripping Surface Serrated Electrical insulation Yes Soft handles Yes Material Parameters Material Carbon Steel DIMENSIONAL PARAMETERS Length of Hand Tool in mm 200 Weight of hand tools in Grams 225 Width of hand tools in mm 60 millimeter Jaw length of Hand tool in mm 210 millimeter Jaw Thickness of Hand tool in mm 25 millimeter Hardness of Gripping Surface (Must be in between 35 +-N=50 HRC) Yes Hardness near Cutting Edge (Must be in between 50 +-N=70 HRC) Yes	Solar Technician	42	0.001725	0.07245	Competitive Bidding
236	Screw Driver Insulated	Screw Driver Insulated 6mm X 150 mm, Standards Conformity to Standards IS : 844 Part I and Part II latest Type of Screw Drivers Electricians Screwdrivers Screw Driver Point Size or Tip Size (a x b) in mm x mm 0.6 x 4.0 Shape of Blade Round Length of Blade in mm 150 Length of Head M 4 Weight of Screwdriver in gms 60 Insulation on Blade Yes Length of Handle in mm 25 Diameter of Blade in mm 5 Material of Blade Steel Material of Handle Plastic Material of Ferrules Steel conforming to Type D of IS 513 latest	Solar Technician	42	0.0023	0.0966	Competitive Bidding
237	Screw Driver Insulated	Screw Driver Insulated 6mm X 150 mm, Conformity to Standards IS : 844 Part I and Part II latest Type of Screw Drivers Electricians Screwdrivers Screw Driver Point Size or Tip Size (a x b) in mm x mm 0.8 x 6.0 Shape of Blade Round Length of Blade in mm 150 Size of Head M 4 Weight of Screwdriver in gms 60 Insulation on Blade Yes Length of Handle in mm 80 Material of Blade Steel Material of Handle Plastic Material of Ferrules Steel conforming to Type D of IS 513 latest	Solar Technician	42	0.001725	0.07245	Competitive Bidding
238	Electrician screw driver thin stem insulated handle	Electrician screw driver thin stem insulated handle size 4mm X 150 mm Standards IS:844 Part III Type of Screw Drivers Phillip Screw Driver Tip Size 4.0 mm x 0.4 mm Shape of Blade Round Length of Blade in mm 100 Weight of Screwdriver in gms 97 Insulation on Blade No Length of Handle in mm 80 Material of Blade Steel Material of Handle Plastic Material of Ferrules Steel conforming to Type D of IS 513 latest	conformity to Solar Technician	42	0.00115	0.0463	Competitive Bidding
239	Heavy Duty Screw Driver insulated	Heavy Duty Screw Driver insulated Size: 5mm X 200 mm Conformity to Standards IS : 844 Part I and Part II latest Type of Screw Drivers Engineers Screwdrivers Screw Driver Point Size or Tip Size (a x b) in mm x mm 1.2 x 5.0 Shape of Blade Round Length of Blade in mm 200 Weight of Screwdriver in gms 165 Length of Handle in mm 80 Material of Blade Steel Material of Handle Plastic Material of Ferrules Steel conforming to Type D of IS 513 latest	Solar Technician	42	0.0023	0.0966	Competitive Bidding
240	Electrician Screw Driver thin stem insulated handle	Electrician Screw Driver thin stem insulated handle Size 4mm X 250 mm Conformity to Standards IS : 844 Part I and Part II latest Type of Screw Drivers Engineers Screwdrivers Screw Driver Point Size or Tip Size (a x b) in mm x mm 1.2 x 4.0 Shape of Blade Round Length of Blade in mm 250 Height of Screwdriver in gms 165 Length of Handle in mm 80 Material of Blade Steel Material of Handle Plastic Material of Ferrules Steel conforming to Type D of IS 513 latest	Solar Technician	42	0.002875	0.12075	Competitive Bidding
241	Punch Centre	Centre Punch Size: 9mm X 150 mm conformity to Indian Standard IS 7177 : 1974 Length of centre punch in mm 150 Diameter of Tip of Centre punch in mm 5 Diameter of centre punch body in mm 9 Height of centre punch in gms 100 Material of Centre punch Alloy steel	Solar Technician	42	0.00115	0.0463	Competitive Bidding
242	Knife Double Bladed Electrician	Double Bladed Electrician 100 mm DIMENSIONAL PARAMETERS Type of Cutter Knife - wire cutter knife Material of Body Plastic Material of Blade Carbon Steel Length of Blade (in mm) 100 millimeter Width of Blade (in mm) 18 millimeter Thickness of Blade (in mm) 0.3 millimeter Head Type Sharp Head ADDITIONAL PARAMETERS Blade Replaceable Yes Screw Locking System Yes	Solar Technician	42	0.00023	0.00906	Competitive Bidding
243	Neon Tester	Technical Parameter Tip Width (Tolerance +/- 0.18 mm) Blade Diameter 4 millimeter Height 40 gram Tip Width (Tolerance - - 0.18 mm) 4 millimeter Length of Handle 100 millimeter Blade Material Plastic Length of Blade 50 millimeter Tip Thickness (Tolerance +/- 1 +/- 0.05 mm) Blade Plating Nickel Chrome Material of Blade Stainless Steel Performance Parameter Maximum leakage current (Direct current) 0.1 Maximum Voltage for Testing (Direct Current) 500 Volt Maximum Voltage for Testing (Alternating Current) 20 Volt Maximum Voltage for Testing (Alternating Current) 200 Volt Maximum Voltage for Testing (Direct Current) 50 Volt Generic	Solar Technician	42	0.000575	0.02415	Competitive Bidding
244	Steel Rule Graduated both in Metric and English Unit	Steel Rule: Graduated both in Metric and English Unit 300 mm with precision of 1/60th mm Ruler Width (mm) 18 mm Item Weight minimum 77.1 g Material of rule Tempered stainless steel	Solar Technician	42	0.0006	0.0242	Competitive Bidding
245	Hammer, cross peen with handle	Hammer, cross peen with handle 350 grams Dimensional And Material Parameters Grade of Material (Steel) EN9 Handles Requirement Yes Material of Handle Wood Name of the wood / Timber Jungle wood Length of the Handles (in mm) 300 millimeter Performance Parameters Conformity to Indian Standard IS 841:1983 With Latest Amendment. Nominal Mass (Grams) 250 Type of Hammer cross peen hammer	Solar Technician	42	0.0046	0.1932	Competitive Bidding
246	Electrical Symbol and Accessories Charts	Electrical Symbol and Accessories Charts Minimum size of chart 2x4 feet, laminated and water resistant.	Solar Technician	04 nos.	0.00230	0.0092	Competitive Bidding

247	Pipe vice Cast Iron with hardened jaw open type	Pipe vice Cast Iron with hardened jaw open type 100 mm Performance Parameters Type of Pipe Vice Fixed side Nominal size of Jaw opening (in mm) and (Clearance + 2 %) 105 Suitability for Pipe having outer diameter (in mm) 10-182 Hardness of the jaw plates for Pipe Vice 60 to 65 HRC The corners of pipe vice shall be integral with the base, the base shall have provisions for atleast three holes for mounting Yes The serrated clamping surfaces of the jaw shall be V-shaped and have V Grooves of suitable size for gripping the pipe Yes The screw spindle shall have square, saw tooth or re-splined threads which shall be properly and accurately cut Yes The screw spindle shall provide for proper alignment of the jaws, and the jaws shall distribute even pressure over the entire area of contact Yes The vice shall be finished smooth on all surfaces, and shall be free from burrs, cracks and other manufacturing defects Yes The handle shall be straight and slide freely in the hole provided at the end of screw spindle and shall not slide out of the hole during use Yes Standards Conformity to Standards IS 2587: 1975 Material Parameters Material of Body and jaw body Steel Casting Material of Jaw plates Tool Steel Material of Screw spindle and handle Steel	Solar Technician	2 Nos.		0.28750	0.5750	Competitive Bidding	
248	Hand Vice	Hand Vice 50 mm jaw Material Cast Iron Jaw Width: 50 mm Overall Width: 142 mm Overring via Large Wing Nut with hardened jaw Weight 300 Grams	Item	Solar Technician	2 Nos.		0.017	0.343	Competitive Bidding
249	Table Vice	Table Vice 100 mm with hardened jaw Performance Parameters Types of bench vice Fixed base bench vice Type of construction Cast The head jaw and the base of the vice shall be soundly constructed to shape in one piece and the base shall have flange or lugs to provide for atleast three holes for mounting Yes The handle shall be straight and shall slide freely in the hole provided at the end of the screw spindle Yes The castings or fabricated components shall be sound, free from sand holes, pits, blowholes, scratches and other imperfections Yes All components shall be free from cracks, rust, scales, flaws and other defects Yes The movable jaw shall be soundly constructed to shape and shall be so designed that the vice is statically balanced Yes The screw spindle shall move freely in the spindle nut without any undue play and stiffness Yes The spindle nut shall have a length of the nominal diameter of the screw spindle at least 2.5 times Standards Conformity to Standard with latest amendments IS: 2586 (1986) IS marked No If BIS marked Yes indicate BIS license no other wise indicate NA NA Material And Dimensional Parameters Material of Body for Bench Vice Grey cast iron conforming to minimum grade FG 200 of IS: 210-1978 Material of Movable jaw Grey cast iron conforming to minimum grade FG 200 of IS: 210-1978 Material of Swivel base plates Grey cast iron conforming to minimum grade FG 200 of IS: 210-1978 Material for Jaw plates Tool steel conforming to designation S7B of IS: 2788-1978 Material for Screw spindle and handle Steel conforming to designation Fe410 of IS: 1570 (Part 1): 1978 Material for Spindle nut Grey cast iron conforming to minimum grade FG 200 of IS: 210-1978 Nominal size of bench vice in mm (width of the jaw) (tolerance of + 2 percent) 125 Minimum mass of Fixed base bench vices (in kg) 20 Minimum mass of Swivel base bench vices (in kg) 30 for Fixed base bench vice The hardness of the jaw plates (in HV) (145 HV to 596 HV)	Solar Technicians	2 Nos.		0.0230	0.0460	Competitive Bidding	
250	Hacksaw frame (with blade)	Hacksaw frame (with blade) All Advertisers upto 300 mm, Material: Steel (Handle), Blade Length: 300mm, Dimension: 40x30x2 cm, Adjusting Range: 250-300mm Blade 150 mm frame, Mach From High-Quality Steel, High hardness, stiff and strong, attraction and durable	Solar Technicians	2 Nos. Each		0.0023	0.0092	Competitive Bidding	
251	File flat	File flat 200 mm 2nd cut with handle Conformity to Material Requirement for Non Sparking tools As per IS: 4595 1969 with latest amendment	Solar Technician	2 Nos.		0.0023	0.0046	Competitive Bidding	
252	File half round	File half round 200 mm 2nd cut with handle Conformity to Material requirement for Non Sparking Tools As per IS: 4595 1969 with latest amendment Type of Non Sparking tools Copper Beryllium Chemical Composition Copper (Min 97%), Bi/No (Max 2.5%), Other material (0.5%) Tensile Strength (with tolerance + 5 percent) in N/mm ² 1250 Hardness in HRC 30-40 Magnesium Non Magnetic Types of Engineer's Files Flat file File Length in mm 200 Total length of file with handle in mm 300 Width of file in mm 20	Solar Technician	2 Nos.		0.0023	0.0046	Competitive Bidding	
253	File round	File round 200 mm 2nd cut with handle Conformity to Material requirement for Non Sparking tools As per IS: 4595 1969 with latest amendment Type of Non Sparking tools Copper Beryllium Chemical Composition Copper (Min 97%), Bi/No (Max 2.5%), Other material (0.5%) Tensile Strength (with tolerance + 5 percent) in N/mm ² 1250 Hardness in HRC 30-40 Magnesium Non Magnetic Types of Engineer's Files Flat file File Length in mm 200 Total length of file with handle in mm 300 Width of file in mm 20	Solar Technician	2 Nos.		0.002300	0.0046	Competitive Bidding	
254	Pliers long nose insulated	Pliers long nose insulated 150 mm, IS 11526:1986 With latest amendment. Performance Parameters Type of Hand Tool Long Nose Pliers as per IS 3552 Type of Insulation Rubber Insulation Shape of Handles Straight handle Type of Joint Single joint Type of Gripping Surface Plain Shape of Nose Straight Tool Finish Natural Finish, Handle Finish Smooth finished Electrical insulation Yes Soft handles Yes Material Parameters Material Alloy Steel Dimensional Parameters Length of Hand Tool in mm 150 Weight of hand tools in Grams 135 Width of hand tools in mm 50 millimeter Jaw length of Hand tool in mm 75 millimeter Jaw Thickness of Hand tool in mm 10 millimeter Hardness of Gripping Surface (Must be in between 35 <-N<-50 HRC) Yes Hardness near Cutting Edge (Must be in between 50 <-N<-70 HRC) Yes	Solar Technicians	4 Nos.		0.001725	0.0069	Competitive Bidding	
255	Pliers flat nose insulated	Pliers flat nose insulated 150 mm, IS 11526:1986 With latest amendment. Performance Parameters Type of Hand Tool Long Nose Pliers as per IS 3552 Type of Insulation Rubber Insulation Shape of Handles Straight handle Type of Joint Single joint Type of Gripping Surface Plain Shape of Nose Straight Tool Finish Natural Finish, Handle Finish Smooth finished Electrical insulation Yes Soft handles Yes Material Parameters Material Alloy Steel Dimensional Parameters Length of Hand Tool in mm 200 Weight of hand tools in Grams 150 Width of hand tools in mm 50 millimeter Jaw length of Hand tool in mm 75 millimeter Jaw Thickness of Hand tool in mm 10 millimeter Hardness of Gripping Surface (Must be in between 35 <-N<-50 HRC) Yes Hardness near Cutting Edge (Must be in between 50 <-N<-70 HRC) Yes	Solar Technicians	4 Nos.		0.001725	0.0069	Competitive Bidding	
256	Pliers, round nose insulated	Pliers, round nose insulated 100 mm, IS 11526:1986 With latest amendment. Performance Parameters Type of Hand Tool Long Nose Pliers as per IS 3552 Type of Insulation Rubber Insulation Shape of Handles Straight handle Type of Joint Single joint Type of Gripping Surface Plain Shape of Nose Straight Tool Finish Natural Finish, Handle Finish Smooth finished Electrical insulation Yes Soft handles Yes Material Parameters Material Alloy Steel Dimensional Parameters Length of Hand Tool in mm 100 Weight of hand tools in Grams 125 Width of hand tools in mm 60 millimeter Jaw length of Hand tool in mm 60 millimeter Jaw Thickness of Hand tool in mm 10 millimeter Hardness of Gripping Surface (Must be in between 35 <-N<-50 HRC) Yes Hardness near Cutting Edge (Must be in between 50 <-N<-70 HRC) Yes	Solar Technicians	4 Nos.		0.01725	0.0069	Competitive Bidding	
257	D.E. metric Spanner Double Ended	D.E. metric Spanner Double Ended 6 - 32 mm set of 12 spanner The spanner set contains 12 spanners of the following sizes: 6 x 7 mm, 8 x 9 mm, 10 x 11 mm, 12 x 13 mm, 14 x 15 mm, 16 x 17 mm, 18 x 19 mm, 20 x 22 mm, 24 x 26mm, 28 x 27mm, 30 x 32mm respectively Material Chrome vanadium steel Coated with nickel Chrome to protect from rust or corrosion and anti-slip ends; jaw shape maintains grip on fastener with only slight rotational pressure File for tightening or loosening nuts/bolts etc.	Solar Technicians	2 Set		0.01725	0.0345	Competitive Bidding	
258	Sawgs, wire imperial stainless steel marked in 5WG & 6mm	Sawgs, wire imperial stainless steel Material Stainless steel Range 6 to 30 SWG, 12,700 mm to 6,025 mm	Solar Technicians	2 Nos.		0.0012	0.0023	Competitive Bidding	
259	Portable Electric Drill Machine	Portable Electric Drill Machine 12 mm Check Size 12mm Type Corded Colour Blue Chuck Type Keyed Motor Type Brushed Power & Performance Power Rating 750 Watt Amperage Lamp 0 Maximum Speed (RPM) 3000 RPM Power Supply 230-240 V, 50Hz +/- 10 Bit Holder Included Yes Reverse rotation Yes Should have Shockproof Body Yes Dimensions Weight 1.9 kilogram Cord length 3 meter Height 190 millimeter Width 70 millimeter Drill bit Capacity in Steel 12 millimeter Length of Drill bits 5 inch Depth 4 inch	Construction	Solar Technicians	1 No.		0.0575	0.0575	Competitive Bidding

260	Crimping Tool	Crimping Tool 1.5 sq mm to 16 sq mm. Maximum crimping capacity in Span 16 Minimum crimping capacity in Span 1 Crimping die's provided (mm) NA for Non changeable die Packaging Plastic casing Construction Weight in Kg 0.2-0.6 Crimping Type Side Disc Body Material Metal Stroke 18 mm Changeable Die's Feature No Length in mm 240-280 Crimping Force in newton 6	Solar Technician	1 No. Each	0.0046	0.0092	Competitive Bidding
261	Pliers Side Cutting	Pliers Side Cutting 150 mm Conformity to Standards IS 2415:1989 & IS 11526:1986 With latest amendmet. Performance Parameters Type of Hand Tool Side Cutting Pliers as per IS 4370 Type of Insulation Plastic, Insulation Shape of Handle Straight handle Type of Joint Single Joint Type of Gripping Surface Plain Shape of Nose Half Round (Eand S View) Type of Cutter SIDE Cutter Tool Finish Neutral finish, Handle Finish Smooth finished Electrical Insulation Yes Soft handles Yes Material Parameters Material Alloy Steel Dimensional Parameters Length of Hand Tool in mm 150 Weight of Hand tools in Grams 125 minimum Width of hand tools in mm 40 millimeter Low length of Hand tool in mm 30 millimeter Low Thickness of Hand tool in mm 28 millimeter Hardness of Gripping Surface (Must be in between 35 <<N<<50 HRC) Yes Minimum Edge Cutting Edge (Must be in between 50 <<N<<70 HRC) Yes	Solar Technician	2 No.	0.00230	0.0046	Competitive Bidding
262	Wire stripper adjustable length	Wire Stripper Specification Overall Length 150 mm Strips and Cuts 8-16 AWG Solid Stripping capacity: max 2 Stripping capacity (Diameter) 6 millimeter Handle Finish 1 Layer Material Chrome plated Screw Shearing 6-32 Generic Weight 150 gram	Solar Technician	2 No.	0.001150	0.00230	Competitive Bidding
263	Hammer, ball pein With handle	Hammer, ball pein With handle 250gms Grade of Material (Steel) T50 Handle Requirement Yes Material of Handle Wood Name of the wood /Timber TEAK Length of the Handle (in mm) 110 millimeter Performance Parameters Conformity to Indian Standard IS 841:1983 With Latest Amendmet. BIS Marking No Nominal Mass (Grams) 250 Type of Hammer ball pein hammer	Dimensional And Material Parameters Solar Technician	2 No.	0.002875	0.00575	Competitive Bidding
264	Scriber (Knurled centre position)	Scriber (Knurled centre position) Length 200mm, Diameter 06 mm, Hexagonal Material Stainless Steel with Alloy Steel finishing Finished to HRC 50 to 55	Solar Technician	2 No.	0.0017	0.0035	Competitive Bidding
265	Tool kit Box/bag portable	Tool kit Box/bag portable Trolley Car with three Wheels, Made from high quality polypropylene, Top carry handle with ergonomic grip and large locking clasp, Top box and bottom box lock in position via foldable handle locks making the complete trolley mobile. Trolley handle in height adjustable. Load Capacity: 30 Kg max	Solar Technician	5 No.	0.01150	0.05750	Competitive Bidding
266	Allen Key	Allen Key Conformity to Standard Conformity to Indian Standard IS 3082:1988 Technical Parameter Length of Long Arm 200 millimeter Length of Short Arm 25 millimeter Material Carbon Steel Piece per Box 12 Box Size 15 millimeter	Solar Technician	1 Set	0.0035	0.0035	Competitive Bidding
267	Scissors blade	Scissors Blade 150 mm,Material Material of Blade Stainless Steel Handle Material Plastic Type Type of Fastening Rivet Physical Characteristics Blade Length (mm) 150 millimeter Overall Length (mm) 200 Blade Thickness (mm) 2	Solar Technician	2 No.	0.002	0.02	Competitive Bidding
268	Electrical loads: set of incandescent lamp, Tube light, CFL, LED light, heater and Geyser	Electrical loads: set of incandescent lamp, Tube light, CFL, LED light, Heater and Geyser Incandescent lamp 250 W, Tube light 40 W, CFL 15 W, LED light 09 W, Heater 1000 W Geyser 1.5 KW 20 Lit	Solar Technician	2 Set	0.0115	0.2300	Competitive Bidding
269	Torque wrench	Torque wrench 30-40 to 150-n Construction Least Count 0.5 Spring Arc 50 degree Head Depth 26.5 millimeter Square Drive Size 3/8 inch each Weight 0.7 kilogram Overall length in mm cap 350 millimeter Head Width 30 millimeter Torque Range, Nm 3-15 N-m Material Material Steel Ergo Material Steel Additional Information Torque Limiting Direction Clockwise Finish Chrome Plated	Solar Technician	1 No.	0.0115	0.0115	Competitive Bidding
270	Pipe Cutter to cut pipes	Pipe Cutter to cut pipes upto 5 cm dia Body Made of Malleable Cast Iron, Roller made of Steel Weight Min 2.2 kg	Solar Technician	1 No.	0.0092	0.0092	Competitive Bidding
271	Pipe Cutter to cut pipes	Pipe Cutter to cut pipes above 5 cm dia Body Made of Malleable Cast Iron, Roller made of Steel Weight Min 8.5 kg	Solar Technician	1 No.	0.011300	0.01130	Competitive Bidding
272	Try Square	Try Square 150 mm Blade Material: Stainless Steel L Shaped 90 Degree right angle corner Length of Blade of in mm 150 Width of Blade of in mm (with ± 2 mm tolerance) 30 Width of the Handle in mm (with ± 5 mm tolerance) 130 Graduations marking should be provided on blade Yes Dimensions of Try Square (L x W x H) in mm a mm x mm 180x30x10 Weight of Try Square in gram 200 Blade More (Weight)	Solar Technician	2 No.	0.00288	0.00575	Competitive Bidding
273	Multi Meter (analog)	Drop and check proof Multi meter DC V 0-500V, AC V 750V and DC 0-2.5A Resistance upto 200MΩ, Capacitance upto 10µF, dB measurement -10dB to 20dB Diode Testing, Transistor Testing A-15mA-100µA HF: ~1000 Hz with connector Standard Accessories: Connecting Probes With Gold plated (Red and Black), Holster, Manual, Battery 2 x 1.5 AA Dimensions 148 (H) x 100 (W) x 35 (D) millimeters Lead Book (optional) 10 in x 12 mm (Lamp holder Type) with over load Relay, Single Phase, housed in a box with MCB, Voltmeter, KW Meter, Ammeter	Solar Technician	1 No	0.00575	0.00575	Competitive Bidding
274	Load Bank (variable)	Load Bank (variable) 10 in x 12 mm (Lamp holder Type) with over load Relay, Single Phase, housed in a box with MCB, Voltmeter, KW Meter, Ammeter	Solar Technician	1 No.	0.017250	0.0173	Competitive Bidding
275	Wire Cutter and Stripper	Wire Cutter and Stripper 150 mm Specification Overall Length 177 millimeter Rated Type 1000 VAC and 1500 VDC Strips and Cuts 8-16 AWG Solid Stripping capacity: max 2.5 Stripping capacity (Diameter) 2 millimeter Handle Finish 1 Layer Material Chrome plated Screw Shearing 6-32 Generic Weight 150 gram	Solar Technician	4 No.	0.002	0.01	Competitive Bidding
276	Earth Plate	Earth Plate Copper Plate: Size 60 cm x 60 cm x 3.15 mm Zn Plate: Size 60 cm x 60 cm x 6 mm	Solar Technician	1 Each	0.115	0.230	Competitive Bidding
277	Earth Electrode	Earth Electrode Primary Elements: Of length 2000±20 x 20 x 3.2 5mm Secondary Zn Strip: Size of 20 x 20mm	Solar Technician	1 No.	0.1150	0.115	Competitive Bidding
278	Out Side Micrometer	Out Side Micrometer 0 - 25 mm least count 0.01mm. Wide measuring range with interchangeable anvils. Measuring face of the anvils is carbide tipped (ground made) IP 65 water/dust protection (series 3407) Equipped with knurled stop for constant measuring force. Flanesh: 0.9 µm/0.00024 in for models up to 300 mm/12 in 1.0 µm/0.00039 in for models over 300 mm/12 in Parallelism 2 µm/0.00008 in for models up to 75 mm/3 in 1 µm/0.00012 in for models up to 150 mm/6 in 2 x 1 µm/0.00004 in for models over 150 mm, Dress: steel (mm) Fraction rounded up 0.00008 = 0.00004 (R/4) in for models over 6 in, R= max. range (inch) Fraction rounded up Accuracy: ±(± 0.7) µm, R = max. range (mm) ±0.00016 = 0.00004 (R/3) in, R = max. range (inch) Fraction rounded up Excluding quantizing error Excluding quantizing error	Solar Technician	2 No.	0.0345	0.0690	Competitive Bidding
279	Tap set	Tap set Different size Material Of Construction Material of Bit Alloy Steel Technical Parameters Hardware Range (HRC) 32-35 Types of Screw Driver Bit Supplied Torx, Bit, Hexagon Bit, Flat bit, Phillips Bit, Phillips Double Head Bit, Tri-wing Bit, Hex Square Bits Sizes of Screw Driver Bit (Hexagonal Bits) inches 1/16, 5/64, 3/32, 7/16, 1/2, 5/8, 3/4, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 3, 4, 5, 6, 8, 10, NA Finish of Bits Chrome/Powder/Black/Anodized Grey/Black Sizes of Screw Driver Bit (Flat Bit) mm 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, NA Sizes of Screw Driver Bit (Double Head) (Phillips Bit) PH0, PH1, PH2, PH2.5, NA Sizes of Screw Driver Bit Torx Torx Bits (T) T5, T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40, NA Special coating on bits & their prevention oil on Bits for protection against corrosion. Yes Sizes Tri wing Bits, Y1, Y2, Y3, Y4, NA Driver Bit Driver Sizes of Square Bits S6, S1, S2, S3, NA Sizes of Screw Driver Bit (Hexagonal Bits) mm 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, NA Sizes of Screw Driver Bit 2 in 1 (Flat Bit, Phillips Bit) Flat Bit size in mm, PH2, 4, 5, PH1, 1.5, PH2.5, 5, PH3, NA Sizes of Screw Driver Bit (Phillips Bits) PH0, PH1, PH2, PH3, NA	Solar Technician	02 Set Each	0.0092	0.018	Competitive Bidding

305	Multimeter	<p>MEASUREMENTS DC Voltage Range 1000 Volt DC Voltage Accuracy 0.5 percent DC Voltage resolution 0.1 millivolt AC Voltage Range 1000 Volt AC Voltage Accuracy 1 percent AC Voltage resolution 1 millivolt DC Current Range 10 Ampere DC Current Accuracy 1 percent DC Current resolution 0.001 milliamperes AC Current Range 10 ampere AC Current Accuracy 1.5 percent AC Current resolution 0.01 milliamperes Resistance Range 40 megohm Resistance Accuracy 2.5 percent Resistance resolution 0.1 Ohm Capacitance Range (Minus Paratd) 1 to 100 Capacitance Accuracy (%) 1.5 Capacitance resolution (at) 0.001 Frequency Range (kHz) 20 Frequency Accuracy (%) 0.1 Frequency resolution (Hz) 0.001 Temperature Range (Degree C) -40 to 400 Temperature Accuracy (%) 2 Temperature resolution (Degree C) 1</p> <p>FEATURES Type Hand Held Display (Digits) 3.5 Measurement Type True RMS Counts 6000</p>	Solar Technician	02 Nos.	0.0115	0.0230	Competitive Bidding
306	Megger	<p>Megger Analyser 500 v DESCRIPTION Type Portable Measurement Range 0.01 M Ohm to 10 G Ohm Measurement Accuracy 4 percent Measurement Resolution 1 megohm Test Voltage 500 Volt Test Current 1 milliamperes</p> <p>FEATURES Leak Discharge Time (Second) Less than 0.5</p> <p>GENERIC Dimensions (mm x mm x mm) 144.5 x 95 x 72.5 Weight 440 gram</p> <p>SAFETY Safety rating Category III 600 V of IEC 61010</p> <p>POWER REQUIREMENT Power Requirement Battery Operated Type of Battery Non- Rechargeable (Alkaline) If rechargeable, then chemistry of the battery NA If Non-rechargeable, then size of the battery / cell AA Number of non-rechargeable battery / cell 4 Voltage of rechargeable Battery 9 Volt Capacity of rechargeable battery (with ampere hour) 0</p> <p>ACCESSORIES Standard Accessories Supplied with the Equipment Test Lead, Battery</p>	Solar Technician	01 Nos.	0.017	0.017	Competitive Bidding
307	Hydrometer	<p>Hydrometer Specific Gravity Tester enerc Measure Range(%) 1-50 Application Particle size analysis of soil Measuring Range(60) 0.995-1.030 Display Display size 10 inch</p> <p>Power Source Battery Charging Time 24 hour Number of Batteries supplied (Inclusive in the Scope of Supply) 1 Battery Run Time 20 minute Number of Batteries required for operation 1 Power Supply Rechargeable Batteries Battery Capacity (mAh) 7000 Cable Adapter to be supplied to make the equipment work on 110V /220V NA Constructional Properties Housing Material ABS Plastic General Overall Dimension 200X100X350MM Weight 0.5 Kilogram General Technical Requirement General technical requirement to be supplied with Hydrometer Glass Jar (not 5 nos.) of 1000 ml capacity about 7 cm diameter and 33 cm high marked at 1000 ml volume with ground glass or rubber stoppers without pour out, complete with the rubber bung. Maximum operating temperature 70 degree Celsius Degree protection IP54 Minimum operating temperature -10 degree Celsius</p>	Solar Technician	04 Nos.	0.002	0.009	Competitive Bidding
308	Solar Insulation meter	<p>Solar Insulation meter Product Specification Display: Semi-transmissive LED Display Voltage Range (AC): 20 V / 600 V Voltage Accuracy (AC): ±2%, rdg. ±8 dgt. Voltage Range (DC): 1.2 V to 600 V Voltage Accuracy (DC): ±1.3 % rdg. ±4 dgt. Accessories Included: Test lead set with remote switch, L9788-11 +1, back strap +1, instruction manual +1, LRA (AA) alkaline batteries +4 Input Power: LRA (AA) alkaline batteries +4, Continuous use: 10 hours Dimensions: 150(W) x 177(H) x 121(D) mm</p>	Solar Technician	02 Nos.	0.023	0.046	Competitive Bidding
309	Pyranometer	<p>Pyranometer Spectral range 300 - 3000nm Signal range 0 - 2000W / m² Signal 0 - 20uV Sensitivity 7 - 14uV / W * m⁻² Impedance 300 Ω Response time (0.95) < 30s Spectral selectivity (0.5 to 1.5μ) ± 5% Temperature response (for 50K interval) 4% Tilt response (0.97) ± 2% Operating ambient temperature -50 °C - +80 °C Operating humidity 0% - 100% RH</p>	Solar Technician	01 No.	0.345	0.345	Competitive Bidding
310	Pyrheliometer	<p>Pyrheliometer Measured: Direct solar radiation Measurement range 0 to 6000 W/m² Response time: 95 % (2) (nominal) Full field of view angle: 5 Degree Slope angle: 1 Degree Standard cable length: 5 m Window assembly heater: 12 VDC, 0.5 W Wind operating: -40 to +40 DegreeC</p>	Solar Technician	01 No.	0.075	0.075	Competitive Bidding
311	Lux meter	<p>Lux meter Lux meter LED read out 0.05 to 7000 Lumens Display: 18 mm LED Range: 0 to 7000 Lumens, Electrical Specifications: Range: 0 to 2000 Lux, Resolution: 1 Lux, Accuracy: +/- 0.5% 2000 to 7000 Lux, Resolution: 10 Lux, Accuracy: +/- 0.5% With 4F22 9V DC Battery</p>	Solar Technician	02 Nos.	0.0400	0.0920	Competitive Bidding
312	Magnetic Flux Meter	<p>Magnetic Flux Meter 0-500 Tesla Measuring: D.C., Magnetic fields, Ferris Magnetic Detectors, Field Surveyors, Production Test Systems, Voltage Integration, Hydrogen Loop Tracers, Magnetic Shielding Effectiveness Accuracy: 1% Protection: Over range protection up to 100% Indication: Three and half digit seven segment LED display Input Requirement: AC: 230, 50Hz, single phase</p>	Solar Technician	02 Nos.	0.0400	0.092	Competitive Bidding
313	Tong Tester / Clamp Meter	<p>Tong Tester / Clamp Meter 0 - 300 A (Digital Type) Hex Display: AC: 1.5 Digit, 1999 Counts, 0.1° High Polarity: Automatic, Inducting Minus, assumed Plus, Measure Method: Double Integral A/D Switch implement. DC Voltage Range: 1000 V, Resolution: 1V, Accuracy: +/- 1.0% of rdg. AC Voltage Range: 750 V, Resolution: 1V, Accuracy: +/- 1.2% of rdg. AC Current Range: 200 A, Resolution: 100 mA, Accuracy: +/- 2.5% Insulation Test Range: 20 M Ohm, Resolution: 10 K Ohm, Accuracy: +/- 2%</p>	Solar Technician	01 Nos.	0.03450	0.0345	Competitive Bidding
314	Soldering Iron	<p>Soldering Iron A) 25 Watt: 25 watt soldering iron, Pen3 type nozzle, Copper tip with pec wire, Temp 380 °C, Power Cord 1.5 M B) 65 Watt: 65 watt soldering iron with round tip bit, Heat Resistant Grip, Quick Heating, Power Cord 1.5 M, Copper and Nickel tip, Temp. 450 C) 120 Watt: 120 Watt soldering iron with round tip bit, Heat Resistant Grip, Quick Heating, Power Cord 1.5 M, Copper and Nickel tip, Temp. upto 550°C</p>	Solar Technician	02 Nos. Each	0.0115	0.0230	Competitive Bidding
315	Temperature controlled Soldering Iron	<p>Temperature controlled Soldering Iron 50 Watt, 230 Volt, 50 Hz Burner type: ceramic, LED digital display screen for temperature showing, Power 50 watt, Adjustable temp 100c to 400 c, Power cord length min 1.5 metre</p>	Solar Technician	02 Nos.	0.0058	0.012	Competitive Bidding
316	Thermometer Digital	<p>Thermometer Digital 0 °C - 150 °C Temperature Range: 0 to 150 deg C Accuracy: +/- 2.5 deg C or +/- 0.75% Application: Industrial Assembly: Thermocouple Probe Probe Termination: Lead Wire</p>	Solar Technician	01 No.	0.02	0.03	Competitive Bidding
317	Sun Shine recorder	<p>Sun Shine recorder Accessories in the scope of supply 6 Month graph chart, 1 year graph chart, Marble support, Operational Manual, Wooden Box carrying case, cardboard carrying case Application: Measurement of the duration of bright sunshine at the latitudes 5 o to 45 o N CONFORMITY Conformity to Indian Standard Generally conforming to IS: 7243, Latest GENERIC Construction Material, Dimension, General Requirements, Workmanship and finish are conforming to IS: 7243, Latest Marking Engraved as per clause of IS:7243, Latest Packaging Details PACKED IN WOODEN BOX Overall Weight 6000 gram SAFETY FEATURES Solvent Features Air bubble free glass, anti-corrosive, NA ACCESSORIES Accessories in the scope of supply 6 Month graph chart, 1 year graph chart, Marble support, Operational Manual, Wooden Box carrying case, cardboard carrying case, NA WARRANTY Warranty on Equipment 12 month</p>	Solar Technician	02 No.	0.1725	0.345	Competitive Bidding
	Weather monitoring station	<p>Wind Speed And Direction Wind speed Resolution: m/sec 0.1 Wind direction Accuracy (for wind > 2 m/sec) (degree) +/- 3 Wind direction measuring Range 360 degree Wind speed measuring Range: m/sec 60 Wind direction Resolution 1 degree Principle Ultrasonic Wind speed accuracy (for wind > 5 to 50 m/sec) (%) +/- 3 Air Temperature Temperature Resolution 0.1 degree Celsius Temperature Accuracy at 25 degree Celsius (degree Celsius) +/- 0.3 Air temperature Principle Integrated type thermistor sensor Temperature Measuring Range (degree Celsius) -40 to 80 Relative Humidity Humidity Resolution 1 percent Humidity Measuring Range: RH 100 percent Relative humidity Principle Integrated type thermo sensor Humidity Accuracy % (for 10 to 90%) at 20 degree Celsius +/- 2</p>	Solar Technician				

318		<p>Air Pressure Precision Accuracy at 25 degree Celsius (hPa/F Pascal) +/- 1.0 Air pressure Principle MEMS capacitive Pressure Measuring Range 1200 hPa/F Pascal Pressure Resolution 0.1 hPa/F Pascal Brightness Brightness Measuring Range (lux to klux) 100 Resolution of measuring value 0.3 percent Precipitation Precipit. Stan. 1 millimeter Precipitation Resolution(mm) 0.001 Precipitation Intensity(mm/h) 240 Technical Parameter Output Instantaneous Values Housing weather proof Interface RS485 Protection IP66 Lead Time: 8WEEK</p>	Solar Technician	01 No.	1.1500	1.1500	Competitive Bidding
319	Solar cell based sunlight radiation meter	<p>Electrical Parameter Operating Voltage (DC) 12 Volt Operational temperature Range:degree Celsius: -40 to 70 Cable (min) 10 meter Data Logger For Data Acquisition Secondary power supply Battery Color Touch Display Yes Measuring Cycle: 1 second Channels: 2, Serial Synchronous Power Supply: 12 Volt Software For Data Analysis Window 7 or Higher version Screen type TFT Display Leap year Detection Yes Communication port: WiFi Time Real Time Clock Data Output SD Card COM:GPRS:No</p>	Solar Technician	02 No.	0.219	0.437	Competitive Bidding
320	Magnetic compass	<p>Solar cell based sunlight radiation meter For Solar power measurement up to 2000 w/square meter SPECIFICATIONS: Calibration Uncertainty: ± 5% (see Calibration Traceability below) Measurement Repeatability: ± 1% Non-stability (Long-term Drift): ± 2% per year Non-linearity: < 1% up to 1750 W/m² Response Time: < 1 ms Field of View: 180° Spectral Range: 360 to 1120 nm (wvln lengths where response is 10% of maximum Directional (Cosine) Response: ± 3% at 75° zenith angle (see Cosine Response below) Temperature Response: 0.04 ± 0.04 % per °C (see Temperature Response below) Operating Environment: 0 to 50 °C < 90 % non-condensing relative humidity up to 30 °C < 70 % non-condensing relative humidity from 30 to 50 °C Separate sensors can be submerged to water up to depth of 3.0 m Meter Dimensions: 12.6 cm length, 7.6 cm width, 2.4 cm height Sensor Dimensions: M2 200, 2.4 cm diameter and 2.8 cm height</p>	Solar Technician	04 No.	0.0046	0.018	Competitive Bidding
321	Cut models of photo voltaic cell assembly	<p>Magnetic compass Professional Multifunction Metal Sighting Compass High Accuracy Waterproof Compass Crew. Key Features: 1. Size: 60*30*20mm. Material: Metal, glass 2. Waterproof and shockproof 3. This compass with luminous display window, convenient night clearly viewing 4. Sighting window with sighting line 5. Reference table to estimate distance and scope 6. With one piece shopping bag and easy special Packing Box. 7. With English instructions And the vertical rubber line of the sighting optic lets you take full advantage of the 1 degree resolution used on the compass card. 1. Made of metal construction 2. To measure direction, longitude and latitude, horizontal and so on 3. Sighting window with sighting line 4. North arrow 5. Floating compass dial with 360°/A°scale 6. Rotary dial with 360°/A°scale 7. Luminous magnet arrow 8. Bezel ring 9. Lock /on side 10. Adjustable prism lens 11. Liquid-filled 12. Bubble level 13. Reference table to estimate distance and scope</p>	Solar Technician	02 Nos.	0.000	0.001	Competitive Bidding
322	Cut model of Lead acid battery	<p>144 Mono-per/ Poly Solar Cells Eight Junction Boxes 3 Func/ 3 Bypass Positive Power Tolerance Enhanced Power Output Cooling Module Efficiency (up to 17.5%) Cut model of Lead acid battery 12 V 150 AH battery cut model depending on the model. Superior Lead Acid Cells with High-Density active materials Complexity Sealed Leak Proof battery container, Electrolyte: H₂SO₄ High purity ABS Case 3-10g Low Self Discharge</p>	Solar Technician	01 No.	0.1	0.1	Competitive Bidding
323	Lead Acid battery	<p>Lead Acid battery 12V A) 60Ah, Battery Cell Composition: Lead Acid Voltage: 12 Vdc Battery Weight: 17.5 Kilograms Battery Capacity: 40 Amp Hours B) 75Ah Battery Cell Composition: Lead Acid Voltage: 12 Vdc Battery Weight: 28.0 Kilograms Battery Capacity: 75 Amp Hours</p>	Solar Technician	01 Each	0.115	0.115	Competitive Bidding
324	Lead Acid battery	<p>Lead Acid battery 12V, 100Ah Dimensions: 38.5 x 25.4 x 23.8 centimeters Mounting Hardware: Top Vented Lid With Anti-Splash Guards Item Weight: minimum 56 kg RoHS/REACH: Compliant Floor/Flat Guide To Indicate Electrolyte Level</p>	Solar Technician	04 Nos.	0.104	0.104	Competitive Bidding
325	Solar simulator for solar cell characteristic study	<p>Solar simulator for solar cell characteristic study To study IV curve of a solar cell of minimum 2 watt under variable illumination, temperature and suitable load Triple class A (Uniformity 2%, Spectral AM1.5, Instability 0.5%) No recharging time between the tests High testing speed: 3-7 seconds per module Flexibility to accommodate the pulse Calibrated pyranometer for irradiance measurements Compact dimensions Precise electronic load for the characterization of the module with custom I-V range Senses to measure the temperature of the module and the environment temperature Uniformity constant over LED source life time 3x3x6 Illuminated area</p>	Solar Technician	01 No.	0.115	0.115	Competitive Bidding
326	IV Curve tester	<p>Trace Parameters: DC Voltage, DC Current, Power, PV, PV, STC, BMPP, VMPP, Fill Factor, Multi-function solar photovoltaic installation test instrument capable of performing all of the electrical tests required by IEC 62446. All-in-one commissioning tests and I-V curve tracing, 1kV insulation resistance test function, Ground (earth) continuity measurement with test lead and (earth) continuity (0.200kV), AC/DC voltage using the four terminals, Open circuit module, string or array voltage, Voltage polarity, Short circuit module, string or array current, Module, string or array insulation resistance at 250V, 500V and 1000VDC, Probe to probe insulation resistance at 250V, 500V and 1000VDC, PV string open circuit and maximum power point voltage measurements up to 1000V DC, Tests individual PV modules or strings, Instant NFC data transfer using the PVMobile app, String I-V curve test Maximum Power Measured: 15 kilowatt Maximum Open Circuit Voltage Measured: 500 volt Maximum Short Circuit Current Measured: 10 Ampere Constructional Parameters Weight of Operating Unit: 2.6 Kilogram Length of Operating Unit: 280 millimeter Minimum operating temperature in degree Celsius: (-) 5, (+) 5 Maximum Operating Temperature: 50 degree Celsius Depth of Operating Unit: 64 millimeter Width of operating Unit: 150 millimeter Solar Body Material: Composite Certification Compliance to IV Curve measurement Test IEC/EN60891 Compliance to Safety standard IEC/EN61910-1 Compliance to Temperature measurement Test IEC/EN60964-5 Functional Parameters Additional Trace Parameters: Irradiance, Panel temperature Trace Parameters: DC Voltage, DC Current, Power, PV, PV, STC, BMPP, VMPP, Fill Factor, Multi-function solar photovoltaic installation test instrument capable of performing all of the electrical tests required by IEC 62446. All-in-one commissioning tests and I-V curve tracing, 1kV insulation resistance test function, Ground (earth) continuity measurement with test lead and (earth) continuity (0.200kV), AC/DC voltage using the four terminals, Open circuit module, string or array voltage, Voltage polarity, Short circuit module, string or array current, Module, string or array insulation resistance at 250V, 500V and 1000VDC, Probe to probe insulation resistance at 250V, 500V and 1000VDC, PV string open circuit and maximum power point voltage measurements up to 1000V DC, Tests individual PV modules or strings, Instant NFC data transfer using the PVMobile app, String I-V curve test Performance Parameter Minimum Power Measured: 10 milliwatt Maximum Temperature of Module measured (Deg Celsius): 60-80 Minimum irradiance measured in MV: 1 Maximum Power Measured: 15 kilowatt Minimum temperature of Module measured (Deg Celsius): 20 (-) 10 Accuracy of Current Measurement: 1% Accuracy of temperature measurement: 1% Accuracy of irradiance measurement: 1% Resolution of irradiance measurement in MV: 1 Resolution of Power Measured (Max): 1 Watt Minimum Current measured: 0.1 Ampere Minimum Voltage Measured: 1 volt Accuracy of Power Measurement: 3% Accuracy of Voltage Measurement: 1% Resolution of Current Measurement (Min): 0.01 Ampere Resolution of temperature measurement: 0.1 Minimum irradiance measured in MV: 200 Resolution of Voltage Measurement (Min): 0.1 volt Maximum Open Circuit Voltage Measured: 500 volt Maximum Short Circuit Current Measured: 10 Ampere General: Parameters Software provided for Data Logging: Yes Warranty: 1 year Interface: USB Profile: manual, Hard Copy Alkaline Battery Powered: Device Yes Real-time display: Feature Yes Accessories: Provided: Banana Connectors, Irradiance measurement device, Carrying Case, USB Cable, PC Software, Temperature sensing Probe Display: LCD Internal Memory Capacity (Number of Curves): 200-400 Auto-shut-off: Power Off: Yes</p>	Solar Technician	01 No.	2.300	2.300	Competitive Bidding
327	Sun path finder	<p>Sun path finder, Shadow Analysis of Solar Roofs/Ground Mount system Highly portable, transparent, convex plastic dome gives a panoramic view of the entire site. All the trees, buildings or other obstacles to the sun are clearly visible as reflections on the surface of the dome. The Sun path diagram can be seen through the transparent dome at the same time. Works any time of the day for month-long, regardless of sun or clouds. Accurately identifies shading of a site for any time of the year.</p>	Solar Technician	01 No.	0.575	0.575	Competitive Bidding

328	Solar energy trainer with grouping of solar cells	Solar energy trainer with grouping of solar cells to group (series or parallel) at least six solar cells each with minimum 2 W of variable loads. Current Each solar cell 150 mA Frequency: 50 Hz Voltage: 220 V Body Material: MS Steel Voltmeter: 0-10 V Solar Panel: Consists of 6 solar cells Maximum Voltage: Each solar cell 1.5 V Maximum Dimension: 0-500 mm Power: Minimum 5 W AC Rechargeable Ni-Cd Battery: 1.2 V Complete training system to study the fundamentals of photovoltaic system The system has two modes for study: Characteristics and Application Modes On board voltmeter and ammeter are provided to measure the voltage and current respectively, during various modes of operation Charging the batteries using solar energy Weather proof solar cells Portable and light weight Four (four) manuals are provided with theoretical and	Solar Technician	01 No.		0.374	0.374	Competitive Bidding
329	Solar tracker demonstrator kit	Solar tracker demonstrator kit to study manual and automatic control of 10 W solar panel in East-West and North-South & back Capacity: 12V Type: 02 Phase, Off Grid Other Components: Mounting Structure Operating Voltage: 12 V Axis Type: Vertical Specifications: Automatic type Operating Voltage: 230V AC Sensor based technology Fixed with Solar Panel Easy to understand kit Easy manual Function available Single axis operation Control kit is separately provided Well designed Trainer	Solar Technician	01 No.		0.012	0.012	Competitive Bidding
330	Solar PV e-learning software using animations for training	Solar PV e-learning software using animations for training	Solar Technician	01 License		2.300	2.300	Competitive Bidding
331	Halogen lamp with stand for illumination of solar panels in lab	Halogen lamp with stand for illumination of solar panels in lab. AC mains operated to provide 0 to 1000 watts per meter square Lamp: 250 Watt with all Accessories, Chuck, Lamp Holder, Ignitor	Solar Technician	02 Set		0.058	0.115	Competitive Bidding
332	Motorized Bench Grinder	Motorized Bench Grinder Motorized Bench Grinder - 1 HP, 3 phase, 440V with DOL starter, Double side with smooth and rough wheel with Tool Rest, 2000 rpm. Panel Specification: Panel made of MS Sheet of thickness 18 avg. of size 2'6" X 2' X 5" (depth). Front door of panel should be on hinges so that it may be opened. With smooth top and lock arrangement. Panel should be duly painted with grey colour powder coated paint.	Solar Technician	01 No.		0.173	0.173	Competitive Bidding
333	Battery Charger	Battery Charger 0-6-9-12-24-48V, 30 Amp Max charging voltage (CV): 16 volts Floating voltage: custom-made Max output current (CC): 30 amps Charging method: Pre-charge, CC, CV, floating / trickle or shut off AC input voltage: 220V AC AC input freq.: 50 / 60 Hz AC plug: custom-made Protections: Short circuit, Over-voltage, Over-temperature, Reverse Polarity. Efficiency > 90%	Solar Technician	01 No.		0.058	0.058	Competitive Bidding
334	Solar photovoltaic module	Solar photovoltaic module 75 W mono crystalline module: Dimensions: 780 X 670 X 25/35 mm, Type of Solar Panel: Mono Crystalline, Power: 75 W, No. of Cells: 36, Voc: 22.22 V, Maximum System Voltage: 1000 V DC Weight: 7 Kg, X-Flux: 622, Y-Flux: 390, Module Efficiency: 14.5% 75 W amorphous silicon module: Voltage: 25 W, Solar Cell Type: SBL, Voltage: 12V, Material: Poly-crystalline silicon wafers Maximum Current: 4.05 A, Open Circuit Voltage: 22 V, Short Circuit Current: 4.20 A, Temperature Range: -40 to +85 Degree Module OF Cell: 36 Cells, Dimension: 775mm x 665mm x 30mm (L x W x H), Weight: 6.8 kg 250 W thin film module: Back Sheet Composite Film, White (Black and Transparent Optional), Junction Box: IP 67 rated Cable: 1200 mm / 4mm2, Connectors: 2 Nos. (Black MC4 Compatible Connectors, 1x Pass Diodes 3 Pcs) Maximum System Voltage: 600 Vdc, Maximum Series Fuse Rating: 150A, Limiting Reverse Current Rating: 15.0A Operating Temperature Range: -40 to 85 Deg C, Maximum Static Load, Front: 5400 Pa Maximum Static Load, Back: 2400 Pa, Cell Arrangement: 72 (6 x 12) Dimensions (L x W x H) 1960 x 990 x 35mm, Weight: 21.5 Kg Superstrate (Glass) 3.2 mm High Transmission Low Iron Tempered Glass (48 Carats) Frame Material: Silver Anodized Aluminum Frame With Ties Weld Pouch (Black Optional) SW: 10W, 40W poly crystalline module	Solar Technician	01 Each		0.230	0.405	Competitive Bidding
335	Solar panels	Solar panels 250 W Monocrystalline Solar Panels CAPCITY 250 W Positive Power: Voltage: 0-20V PID Resistant with long term reliability Glass with Anti-Reflective Coating Salt mist, Ammonia and Hail Resistant Suitable Heavy Wind & Snow Loads (2400 Pa & 5400 Pa) IP 67 rated MC4 compatible connectors Excellent Performance in low light	Solar Technician	04 Nos.		0.092	0.368	Competitive Bidding
336	Smart TV	Type of Display Technology Smart TV (Android TV) Screen Size (Inches)- 72-75" Resolution (Pixels) [3840x2160] UHD Category Smart Operating System in case of Smart TV Android Static contrast Ratio 5000 : 1 Typical Brightness 400 - 500 Screen Mirroring Yes Mount Type Both table and wall mount Inbuilt Speakers Yes If Yes, Wattage of Speakers 20W x 2 Sub Woofers No Power Consumption (Watts) 220 Ports & Connectivity Number of HDMI Ports 3 Number of USB Ports 2 Number of VGA Ports 0 Number of Ethernet Ports 1 Built-in Wi-Fi Yes Wi-Fi Direct Yes Input-Composite Input Yes Component Input Yes RF Input Yes Accessories Built-in set-top Box No Details of accessories (included in the scope of supply) Remote Control, Connecting Cable, Batteries Certification BIS Registration as per CRS of Mchty Yes BIS Registration Number R-71005371 Energy Star Rating in line with the Government of India Notification number S O 1896(E) and S O 1897(E) NA Generic Minimum Operating Temperature (Degree C) -5 Maximum Operating Temperature (Degree C) 45 Minimum Operating Humidity (%RH) 10 Maximum Operating Humidity (%RH) 75 Dimensions (Length x Breadth x Depth) (mm x mm x mm) 1800X200X1120 Weight (Kg) 35.5 Warranty Warranty (Years) 3	Multimedia animation & special effects	01 nos		0.700	0.700	Competitive Bidding
337	Desktop Computer	Processor Generation -10 Number of Cores per Processor -10 Motherboard Chipset Series Intel Q Series Chipset Number Intel Q 470 Expansion Slots (PCIe x 1) (Number) 1 Expansion Slots (PCIe x 4) (Number) 0 Expansion Slots (PCIe x 16) (Number) 1 Expansion Slots (PCI) (Number) 1 Expansion Slots (M Dot 2) 1 Processor Processor Make Intel Processor Generation 10	Multimedia animation & special effects					

		<p>Number of Cores per Processor 10 Processor Base Frequency (GHz) 2.8 Processor Description Intel Core i9 Processor Number Intel Core i9 10900 Out of Band Management Intel vPro Cache (MB) 20 Graphics Graphics Type Integrated Graphic Card Description Na Size of Memory in Case of Dedicated Graphic Card (GB) 0 Size of VRAM in case of Integrated Graphics (MB) 0 Operating System Operating System (Factory Pre-Loaded) Linux Recovery Image Media CD from the OEM</p>	13 Nos.	0.575	6.900	Competitive Bidding	
		<p>Memory Type of RAM DDR4 RAM Size (GB) 64 RAM Speed (MHz) 2666 Total Numbers of DIMM Slots Available 4 Number of DIMM Slots populated 2 RAM Expandability up to(using spare DIMM Slots in GB) 128 Storage Total Number of Internal Bays available 3 Number of 2 point 5 inches Internal Bays 2 Number of 3 point 5 inches Internal Bays 1 Number of 2 point 5 Inches Internal Bays Populated 0 Number of 3 point 5 Inches Internal Bays Populated 1</p>	Multimedia animation & special effects				
		<p>Type of Drives used to populate the Internal Bays HDD Number of Internal Bays populated with HDD 1 Capacity of each HDD (GB) 1000 @7200 rpm Total HDD Capacity (GB) 1000 Number of Internal Bays populated with SSD 0 Capacity of each SSD (GB) 0 Total SSD Capacity (GB) 0 Number of Internal Bays populated with SSHD 0 Capacity of each SSHD (GB) NA Total SSHD Capacity in addition to 8 GB Flash (GB) 0 Number of Internal Bays populated with SSED 0</p>					
176	Server for LAN		Multimedia animation & special effects		0.690	0.690	
139	Wi-Fi Router	<p>Data transfer rate- 2500Mbps per sec. Frequency 2.4 GHz - (GHz) External antenna -4 Wi-Fi (WLAN - protected system) - yes Wi-Fi router support s/w - Internet Explorer, chrome firefox. No. of ethernet port-4 Upstream Line Rate (Mbps) - 1,244 Downstream Line Rate (Mbps) -2,488 Data signal rate - 2.4 Channels 300 Mbps and more) additional components - Input Power adaptor - 100 to 240 v Ethernet cable length- min- 2mtr SD(Secure Installation Guide) Warranty-min 3 year warranty color- black and grey</p>	Low				
			1 No.	0.035	0.035	Competitive Bidding	
140	Switch	<p>Type of Switch - unmanaged Port type - Gigabit Material- heavy duty metal No. of ports- 24 no. Power Consumption - 9.9W Interface- 10 to 1000 mbps Inward AC Input- 100-240 Volt Port speed - min 10 mbps and above Multi-Gigabit Support- NO Redundant Power supply (5 min day use)- not available Console Port- not available Operating System- available Basic layer- 3 protocol - NA Standards- IEEE802.3, IEEE802.3u, IEEE 802.3af/at, Support CLI administration QoS- Based on source IP, destination IP Support SP, WRR scheduling policy Based on 802.1p Based on DSCP Operating Temperature Range (Degree C)- 0 to 40°C Operating Humidity (RH%) - 10% - 90% non-condensing color- Black, dark grey any color Warranty- min 1 year</p>	Multimedia animation & special effects	1 No.	0.023	0.023	Competitive Bidding
141	Structured cabling in Lab	in house	No required		0.002	0.002	Competitive Bidding
142	Internet Connectivity	no	Multimedia animation & special effects	No required	0.012	0.012	Competitive Bidding
143	Registered Domain	no	No required		0.020	0.020	Competitive Bidding
144	Colour Laser Printer	<p>Cartridge Technology-Composite Cartridge Printing Technology- Laser Type of Printing- Colour Paper Size - A4kgal Print Speed per minute as per ISO/IEC 24734 in (A4) Size - Mono - 18 Print Speed per minute as per ISO/IEC 24734 in (A4) - Color-8 Resolution (Dpi)- 600x600 Memory (MB)- 1024 Hard Disk Capacity (GB)-0 Processor Speed- 732 MHz Duplex Printing- Yes Duplex Print Speed (PPM)-38 Network Connectivity-yes Network Interface- if available-Ethernet 10/100/1000 Wireless Connectivity- No If Yes, Type of Wireless Connectivity- NA USB Ports- yes Number of Main Paper Trays-1 Each Main Paper Tray Capacity-500 Each Main Paper Tray Capacity-yes Number of prints - 5400/minimum Operating Temperature (Degree C)- 10 Maximum Operating Temperature (Degree C)-30 Maximum Operating Humidity (% RH)-80 Minimum Operating Humidity (%RH)-20 Duty Cycle (No. of Print/month)-10000 Weight (In kg) min -24.8 warranty- 3mrs 3 year warranty</p>	Multimedia animation & special effects	1 No.	0.311	0.311	Competitive Bidding

145	Network Laser Printer	<p>Cartridge Technology:Composite Cartridge Printing Technology: Laser Type of Printing: Colour Paper Size: A4legal Print Speed per minute as per ISO/IEC 24734 in (A4) Size - Mono - 18 Print Speed per minute as per ISO/IEC 24734 in (A4) Size - Color-8 Resolution (DPI): 600x600 Memory (MB): 5124 Hard Disk Capacity (GB):0 Processor Speed: 782 MHz Duplexing Feature: Yes Duplex Print Speed (FPM):38 Network Connectivity:yes Network Interface, if available:-Ethernet 10/100/1000 Wireless Connectivity: No If Yes, Type of Wireless Connectivity: NA USB Ports: yes Number of Main Paper Trays:1 Each Main Paper Tray Capacity:500 Each Main Paper Tray Capacity:yes Number of prints: 5400/Minimum Operating Temperature (Degree C): -10 Maximum Operating Temperature (Degree C):30 Maximum Operating Humidity (% RH):80 Minimum Operating Humidity (%RH):20 Duty Cycle (No. of Prints/month):10000 Weight (in kg) min.-24.8 Warranty:-36m 3 year warranty</p>		1 No.	0.518	0.518	Competitive Bidding
146	Optical Scanner	<p>Scanner Type:Flat Bed Maximum Scan Length (in) 44 Maximum Resolution (Dpi) 600 Maximum Scan Speed (in) 30 Color Scan Speed (in) 6000ipm Color Scan Resolution (Dpi) 2400 Scan Length Feeding Capacity (Dpi) 200 Scanning Feature: auto Paper Size: Legal Max File Detection Feature: Yes I2C Compatibility: Windows 8.1, 10 Scan File Format: PDF, PNG, JPEG Power Consumption in Standby (Watt) 1.4 Power Consumption in Operation mode (Watt) 19 Operating Temperature Range (Degree C) 10-35 Weight (kg) 2.8 min. Color Scan Resolution (Dpi) 2400 Color Scan Speed (in) 6000 ipm Warranty: Min 1 year warranty Includes components: Power Adapter (240 v) CD (in) 1 I2C (in) 1 I2C Cable (in) 1</p>	Multimedia animation & special effects	1 No.	0.069	0.069	Competitive Bidding
147	Digital Web Cam	<p>USB Certification:USB 2.0 high-speed certified Resolution:1080p F/No(Lens):2.0 Frame Rate(frames per second):30 OS Compatibility:windows, Fit type:Universal clip fit Night vision:yes Auto Exposure:on White Balance:NA Max. Image Resolution: 5500 x 3640 Focus: 3 cm to Infinity Audio capture: yes Auto Compensation:No Number of Night Vision LEDs:0 Max. Video Resolution:4096x3072 Microphone:Built-in high sensitive USB microphone Lens(MegPixel):2 Support: plug and play(micro) Webcam updates and adjust (software) Warranty: min 3 year</p>		2 Nos.	0.150	0.300	Competitive Bidding
148	UPS	<p>3KVA WITH BATTERY 3 Phase In 1 Phase Out 5 KVA, 12 KW,250%10/650 in mm, Power (Watt):16000, Input Frequency:50/60 Hz +/- 5 Hz (auto sensing), Three Phase In, Single Phase Out, UPS, Advanced IFC Technology,High End IGBT Based,, Short Circuit Protection,Noise Level Less than 50dBA @ 1 Meter (With Fan Speed Control), LED Display,Main, UPS, Over Load, Battery save, Fault indication,etc,switch from Main to UPS, Automatic,switch from UPS to Main,Automatic,INPUT VOLTAGE RANGE: 160-270 VAC, INPUT POWER FACTOR: >0.9, INPUT FREQUENCY: 45-55Hz, OUTPUT VOLTAGE: 230/225/208V, OUTPUT POWER FACTOR: 0.8, FREQUENCY: 50Hz/60.5%, EFFICIENCY: >95%, WAVE FORM: PURE SINE WAVE, TOTAL HARMONIC DISTORTION (THD) <3% FOR LINEAR LOAD, >4% NON LINEAR LOAD, 25% FOR 60 SEC.</p>		As required	0.035	0.449	Competitive Bidding
149	Crimping Tool	<p>Crimping Type: Semi-Disc Body Material: Heavy Duty Metal Stroke: 18 mm (stripping knife) In 1 set, (4x4), (4x1), (4x1) Changeable Die's feature: no Length in mm (inches): 122 Maximum crimping capacity in Sqmm: 4 Minimum crimping capacity in Sqmm: 0.5 Continuum crimping: no</p>	Multimedia animation & special effects	5 Nos.	0.009	0.045	Competitive Bidding
150	Network Rack	<p>Type of Server Rack: Rack Enclosures Size of Server Rack Enclosure: 4U Depth of the Rack (mm) - 480 to 600 Mount Type: Wall mount Front glass Door: Yes Sheet metal: 20 G Type of glass used in front door: Transparent Toughened Glass(thickness -3mm) Material used for rear door:SPCC Quality Cold Rolled Steel Metal Both rear and front doors with Performance Side Panels With Key Locks and Slam Latch: no Secure Locks: Available Rear split door design: No Keyboard Tray Sliding and Rotary: Yes Cable channel in rear side for cable management: Yes Support cable entry from top or bottom: Yes Vertical & Horizontal managers: Yes Numbers of Rack bays: 0 Number of Fan For heat dissipation (nos): 1 Number of fan tray: 1 Heavy Duty Castor Wheels: no Load Bearing Capacity (kg/inch) - 10kg Dust or water resistant: no PDU Power Strips: Available If Wall mount racks then, Swing-Out Racks Not Available color: black, grey</p>		1 No.	0.038	0.038	Competitive Bidding
151	Digital Multimeters	<p>DMM Functions: AC/DC Current, AC/DC Voltage, Capacitance-40 nF - 1000 micro F, Current Measure DC Max: 10A Voltage Measure AC Max: 600V Voltage Measure DC Max: 600V Resistance Measure Max: 200Mohm, Display Count: 2000, Data Freeze:- yes, Reading Storage:- yes, Resistance:- 0-40 M Ohm, DC voltage:- 0 to 1000 V, Audible Continuity Test:- yes, DC Accuracy: ± 0.5% + 3 digit. DC Accuracy: ± 1.5% + 3 digit. AC Accuracy: ± 1.5% + 3 digit. CAT III 600 volts safety rating, Capacitance Accuracy- ± 5% + 5 digit,</p>	Multimedia animation & special effects	4 Nos.	0.020	0.079	Competitive Bidding
152	Screw Driver Set	<p>ALLOY STEEL WITH BLUB , 6 DIFFERENT BLADES ,Fully insulated blade ensures shock proof working, Distinct glow of Neon lamp identifies line live., cellulose acetate plastic Handle..</p>		4 Set	0.008	0.032	Competitive Bidding
153	Mini Dongle for Bluetooth devices Connection	<p>Support OS: WINDOWS Hardware: PC, Laptop, mobile DATA LINK PROTOCOL - USB BLUETOOTH INTERFACE 2.0 WIRELESS SPEED - 33Mbps Transmission range - 20 meter Compatible Device: Desktop, Laptop, Mouse, Keyboard, Printer, Headsets, Speakers, P54 Xbox Controller Item Weight: 30 Grams min. Color: Black - Ink grey</p>	Multimedia animation & special effects	4 Nos.	0.017	0.069	Competitive Bidding
154	Headphone & mic. set	<p>Connectivity: WIRELESS Hardware: Desktop, Laptop, PC, Mobile phone Compatible Device: Windows, PC, Laptop, mobile Microphone: Front Facing-Beam Headphone Form Factor: Over Ear Connector Type: Wired Single 3.5mm Jack, for sound and mic Flexible microphone Voice Detect instantly 1 item would be full set Controls: VOLUME CONTROL Wireless range: 10 m color: any color Warranty: Min 1 year</p>		5 Nos.	0.017	0.086	Competitive Bidding
155	Sound System	<p>FRONT SPEAKER: 10x15x157mm x 6.3M COMBAT TABLE WITH MIDDLE B PC LAPTOP WIRELESS BLUETOOTH LAMP, 80 W OUTPUT</p>	Multimedia animation & special effects	1 No.	0.058	0.115	Competitive Bidding
156	External Hard Disk	<p>Type: HDD (7TB) Connectivity: Wired Digital Storage Capacity (TB): 1 Data Transfer Rate (Gbit/sec): 10 Interface: Type C USB Password Protection: no External Power Required: no Water Resistant: no Shock Resistant: yes Backward Compatibility: No Weight (grams) min: 45 Standard Accessories to be supplied with the Hard Disk-SATA CABLE Operating Temperature Range (Degree C) 0-70°C Operating Humidity (% RH): 70 color: any Warranty: 2 year min.</p>		2 Nos.	0.092	0.184	Competitive Bidding
Total						60 lakh	

3. Training of Teaching and management staff :- Rs. 1.5 Lakh (1.5 lakh - already spend on training 34716 = 1.15 lakh Approx.)

Sr. No.	Name of Items	Specifications	Tasks/Course for which it is required	Total Required	Rate/Unit (in INR lakh)	Total (in INR lakh)	Method of Procurement (e.g. Shopping/Competitive Bidding)
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1	Hiring of motivational speaker/Professional trainer/Expert for training of trainee's	Topic to be covered in Training • Capacity Building • Positive attitude and aptitude • Initiative, creative and innovative approach • Presentation preparation • Personality development and body language • Time management and planning	All Technical and administrative staff	30-50 HRS	2500/-hr	1.5	Competitive Bidding
2	Travel expenses boarding & lodging and other expenses/ allowances for teaching and management staff as per applicable norms and rules.	As per applicable norms and rules.	All Technical and administrative staff				As per applicable norms and rules.

4. Information & communication Technology (ICT) Infrastructure:- (Rs. 1.0 Lakh)

Sr. No.	Name of items	Specifications	Trade/Course for which it is required	Total Required	Rate/Unit (in INR lakh)	Total (in INR lakh)	Method of Procurement (e.g. Shopping/Competitive Bidding)
1	Procurement of interactive boards for improved teaching and learning aids / procurement of trades specific teaching and learning material.		All trades under STRIVE			1.0	Competitive Bidding/Shopping

5. Purchase of books and other learning materials :- (Rs. 1.0 Lakh)

Sr. No.	Name of items	Specifications	Trade/Course for which it is required	Total Required	Rate/Unit (in INR lakh)	Total (in INR lakh)	Method of Procurement (e.g. Shopping/Competitive Bidding)
1	Purchase of print and digitalized books & journals / CDs or other learning materials related to the trades being offered, soft skills or employment prospects of trainees.		All trades under STRIVE			1.0	Competitive Bidding/Shopping

6. Facilities for Trainees:- (Rs. 6.5 Lakh)

Sr. No.	Name of items	Specifications	Trade/Course for which it is required	Total Required	Rate/Unit (in INR lakh)	Total (in INR lakh)	Method of Procurement (e.g. Shopping/Competitive Bidding)
1	Reimbursement of transport charges to women trainees and hiring of vehicle for transportation of trainees to industry premises for OJT.		All trainees of institute			6.5	Competitive Bidding/Shopping
2	Hiring of motivational speaker/Professional trainer/Expert for training of trainee's	Topic to be covered in Training • Motivation and behavior • Communication skill • Personality development • Preparation for Interview and Group discussion • Improvement in Confidence • Team work • Discipline • Career development • Problem solving and decision making • Basic knowledge about industry (Safety, kaizen, PPEs, 5S, 3R, 7 waste etc.)	All trainees of institute	30-50 HRS	2500/-hr		Competitive Bidding/Shopping

C. Items to be procured in Year-3 (FY-2022-23)

1. Minor civil work:- (Rs. 1.0 Lakh)

Sr. No.	Name of items	Specifications	Trade/Course for which it is required	Total Required	Rate/Unit (in INR lakh)	Total (in INR lakh)	Method of Procurement (e.g. Shopping/Competitive Bidding)
1	Cable cabin for CNC lab made of PFR board. Top- 25 mm thick modesty 18 mm thick. Leg- 25 mm thick divider 18 mm thick. Size- 1000Wx600Dx700H mm. Cabin total height - 1200 mm with installation in CNC lab.		Tuner	10		1	Competitive Bidding/Shopping
2	Renovation work/ fixing of aluminium Almirah in sewing technology trade.		Sewing Technology				

2. Equipment Furniture and other goods:- (Rs. 44 lakh)

Sr. No.	Name of items	Specifications	Trade/Course for which it is required	Total Required	Rate/Unit (in INR lakh)	Total (in INR lakh)	Method of Procurement (e.g. Shopping/Competitive Bidding)
1	Welding Transformer (or) Inverter based welding machine	Copper wound Welding Transformer conforming with IS 1851 : 1997 Input Voltage AC 415V ± 10%, 3 PH, Frequency= 50 Hz, O.C.V-60-100Volt, Output Current (minimum) 60- Output Current Capacity 300amps, forced air cooled type, Rated Duty Cycle 60%, Efficiency = 85%, class of insulation A. For reading purpose Voltmeter and Ammeter should be there on front side of the Machine. Each and every parameter should be displayed on the Machine like- OC.V, Arc Voltage, Current etc. Current setting regulator should be in machine.	Welder	01 set	0.2875	0.2875	Competitive Bidding
2	D.C Arc welding rectifiers set with all accessories	D.C Arc welding rectifiers (400 A, OCV 60 – 100 V, 60% duty cycle) Input Voltage-415± 10%, 3 PH, Frequency= 50 Hz, O.C.V-60-100Volt, class of insulation A. For reading purpose Voltmeter and Ammeter should be there on front side of the Machine. Each and every parameter should be displayed on the Machine like- OC.V, Arc Voltage, Current etc. Current setting regulator should be in machine. With following accessories- i) Welding leads two nos 10 meters each. ii) Earth Clamp - 1 No. iii) Electrode Holder - 1 No. iv) Cable connector - 2 Nos.	Welder	01 Set	0.322	0.322	Competitive Bidding
3	GMAW welding machine	Gas Metal Arc Welding (MIG/MAG) Machine with Input Voltage AC 415V, 50Hz, 3PH, Frequency= 50 Hz, Output Current Capacity 400amps, Thyristor or Diode type, class of insulation F. Forced air cooling type, air cooled torch, wire feeder with permanent (400A capacity with air cooled torch) i) Each and every parameter should be displayed on the Machine like- OC.V, Arc Voltage, Current etc. Current setting regulator and Voltage setting regulator should be in machine.	Welder	01 Set	0.9085	0.9085	Competitive Bidding
4	AC/DC GTAW welding machine	Gas Tungsten Arc Welding (TIG) Machine with Input Voltage AC 415V ± 10%, 3 PH, Frequency= 50 Hz, Output Current (Maximum) 300amps, forced air cooled type, Rated Duty Cycle 60%, Efficiency = 85%, class of insulation H. Forced air cooling type Each and every parameter should be displayed on the Machine like- OC.V, Arc Voltage, Current etc. Current setting regulator and Voltage setting regulator should be in machine.	Welder	01 Set	1.2075	1.2075	Competitive Bidding
5	Air Plasma cutting equipment	Input Supply Voltage 415± 10%, 3 Phase, 50 Hz, Cutting Amps. range 25-80 Amps; Cutting capacity mild steel Recommended- 25mm, Duty cycle (Max. Output) @ 60%, Pilot Arc facility, Type of cooling: Forced Air, Insulation Class H 9.	Welder	01 Set	0.667	0.667	Competitive Bidding
6	Air compressor suitable for air plasma cutting system	Air compressor with the Motor of 5 H.P., Double Cylinder, Double stage, 17.5 CFM, Working Pressure 175 PSI, Tank Capacity-250ltr. Autotest should be active with solenoid valve.	Welder	01 No.	0.575	0.575	Competitive Bidding
7	Auto Darkening Welding Helmet	Auto Darkening Welding Helmet with Solar/Battery operated Automatic Protection level IDN 9-13 No. Adjustable ratchet head gear type accessories should be fitted for hand free use.	Welder	02 Nos.	0.046	0.092	Competitive Bidding
8	Spot welding machine	Spot welding machine easy Foot pedal operated/mechanically. Machine should be suitable for connection 2 line of 400/415 volt, 3 phase 50 Hz supply, Input Volt 415± 10%, 2 line of 3 Phase, 50 Hz, Max. KW-15, Max. capacity in MS sheet 5 to 10 MM (4-5S), Throat Depth 400 MM Approx, Throat clearance 200 MM Approx, Transformer cooling-Natural Air.	Welder	01 Set	0.345	0.345	Competitive Bidding
9	Portable gas cutting machine (PIUG)	Portable Gas Cutting Machine with Motor input supply 220± 10%, AC/DC, 50 Hz, Cutting Capability in straight & circular with following Accessories: 1. Aluminium Track 1.8 Metre Long 2. Standard Circle Cutting Attachment 3. Hose Pipes Black & Red (Inside Dia. 5 mm) 4. Extra Cutting Nozzles (Acetylene & LPG) 3 Each LPG Regulator & Sparker Set (Standard Tool Kit For Machine) 7. Instructional Manual (With Circuit Diagram)	Welder	01 Set	0.16875	0.16875	Competitive Bidding
10	Pedestal grinder fitted with coarse and medium grain size grinding wheels	Double Ended Pedestal grinder type with direct drive, totally enclosed Motor with Ball Bearing, approved closed wheel guards and eye shields, Cast Iron or Sheet metal pedestal for floor mounting, Complete with control switch with no-volt and over load protection, six ventilated grinding wheels, with Wheel Dia-30 cm (300mm DR 12"), Width Of wheel 50mm, Distance between Wheels 600mm, Spindle speed-1400 Rpm, Motor (copper wound), 1.5 Kw (2 Phase) 3000 RPM.	Welder	01 No.	0.20125	0.20125	Competitive Bidding
11	Bench grinder fitted with fine grain size silicon carbide green grinding wheel	Bench grinder fitted with fine grain size silicon carbide green grinding wheel dia. 150 mm 1.5 hp motor, 3ph, Spindle speed 1400 Rpm, 2800 RPM.	Welder	01 No.	0.046	0.046	Competitive Bidding
12	AG 4 Grinder	AG 4 Grinder having 235V AC, 50 Hz, 850 Watts, 13000 rpm, 100 mm Grinding wheel with Side Handle and Safety Guard.	Welder	02 Nos.	0.069	0.138	Competitive Bidding
13	Suitable gas welding table	Gas Welding Table Made of M.S. angle iron 40x40x6mm, Size: L x W x H 900 x 600 x 900 mm with fire bricks fitted on top as per IS Standard.	Welder	02 Nos.	0.1367	0.2734	Competitive Bidding
14	Suitable Arc welding table	Arc Welding Table Made of M.S. angle iron frame 40x40x6mm, top M.S. flat, 35x10mm, Size: (L x W x H) 900mm x 600mm x 900mm. Table should be covered from 3 sides by 18 gauge M.S. Sheet up to the height of 600mm. Movable welding positioner should be fitted on the table for doing welding in all positions.	Welder	02 Nos.	0.15525	0.3105	Competitive Bidding
15	Trolley for cylinder (H.P. Unit)	Cylinder Trolley for oxygen & Acetylene made of M.S. pipe dia 25mm x WT 165W/g, base M.S. angle 35x30x6mm, wheel rod dia 25mm thick with lock & key, Cylinder holding chain M.S. heavy duty/Thick, Note: Heavy duty Rubber wheel guarantee/warranty for five years.	Welder	02 Nos.	0.03665	0.0733	Competitive Bidding
16	Hand shearing machine capacity	Hand lever operated Bench shearing machine suitable for cutting sheets, flats, Round, Square upto 6mm, Body made of heavy duty steel and Blades made of high carbon steel or high speed steel, grinded at 87 degree angle, Blade length 225mm minimum.	Welder	01 No.	0.05175	0.05175	Competitive Bidding
17	Portable drilling machine	Portable drilling machine Equipped with reverse & forward motion, capacity 12mm, rated voltage-220/230 V, A.C, No load speed - 2500 rpm, Input power-400 Watts complete with all accessories, Drums & Extra to handle fitted with ON/OFF switch.	Welder	01 No.	0.7705	0.7705	Competitive Bidding
18	Oven, electrode drying	ELECTRODE DRYING OVEN TEMPERATURE RANGE 0°C TO 350°C, CAPACITY 10KG (450 MM Electrode Length), THERMOSTATIC DIGITAL, CONTROLLED TEMPERATURE, Input Supply 220-10% AC, 50 Hz, 1 Phase, Air Circulation Natural & Siphonics System.	Welder	01 No.	0.01725	0.01725	Competitive Bidding
19	Work bench	Work bench 3000x1200x750 mm made of heavy wooden top of atleast 50mm thick wood and frame made of angle iron 62x62x6 mm fitted with rigid supports with a bench vice of 150 mm jaw opening.	Welder	04 Set	0.069	0.276	Competitive Bidding
20	Oxy Acetylene Gas cutting blow pipe	Cylinder Trolley for oxygen & Acetylene Gas cutting blow pipe with the option of LPG conform to IS 7853-1975 Body and Head made of forged brass over all length 450mm Angle head 90 degree with cutting capacity upto 300mm. Complete set including cutting nozzle 3/8", set of nut & nipple for hose connection of both oxygen and acetylene gas.	Welder	02 Set	0.322	1.288	Competitive Bidding
21	Oxygen, Acetylene Cylinders	Standard size for commercial use with the capacity of 6 Cubic meter, Brass valve and Safety cap should be fitted. Approval certificate of appropriate authority/BIS should be there.	Welder	02 Each	0.207	0.414	Competitive Bidding
22	CO2 cylinder	Standard size for commercial use with the capacity of 40 Kg, Brass valve and Safety cap should be fitted. Approval certificate of appropriate authority/BIS should be there.	Welder	02 Nos.	0.207	0.414	Competitive Bidding
23	Argon gas cylinder	Standard size for commercial use with the capacity of 6 Cubic meter, Brass valve and Safety cap should be fitted. Approval certificate of appropriate authority/BIS should be there.	Welder	02 Nos.	0.1965	0.391	Competitive Bidding
24	Anvil	Anvil 50 Kgs with stand, made of cast iron (BIS approved) stand made of m.s. angle 50 x 50 x 6 mm height 150 mm.	Welder	01 No.	0.0782	0.0782	Competitive Bidding
25	Swage block 5048	Swage block weight minimum 50kg Material- cast iron, Different types of profiles should be out in the swage block like- Round, Half Round, Try angle, Square, Rectangular etc. Size- cast iron 16 x 16 x 16 inch	Welder	01 No.	0.069	0.069	Competitive Bidding
26	Magnetic particle testing Kit	Magnetic particle testing Kit having iron powder (Red & Black), (portable type) One Prodt type Magnetic crack detector, one ACH/WDC Yoke, one pair of Cables, One pair of Prods, ASTM Leg Spacing 0-30 cms across poles	Welder	01 Set	0.10925	0.10925	Competitive Bidding
27	Fire extinguishers (foam type and CO2 type)	CO2 and foam type 4kg	Welder	01 No.	0.026393	0.026393	Competitive Bidding

29	Fire buckets with stand	Standard Fire Buckets 4 nos. made of GI sheet.Red painted and round bottom with handle and must be of 9 Litre Capacity filled with dry sand and stand have to arrangement for hanging of 4 Buckets stand made of MS Angle 50mm x 30mm x 4 mm.	Welder	04 Nos.	0.014352	0.057408	Competitive Bidding
30	Portable abrasive cut-off machine	Portable abrasive cut-off machine 220V 50 Hz , 2100 watts, 3600 rpm/min , Wheel dia 14 inches x 30mm thick.	Welder	01 No.	0.092	0.092	Competitive Bidding
31	Suitable Gas cutting table	Suitable Gas cutting table Specification -Made of M.S. Angle iron frame 40x40x6mm x , top M.S. Flat40x10mm Size (L x W x H) 900x600x750mm With minimum 200mm deep tray between the table. Tray size 800x510mm and made of 18 gauge M.S. Sheet.	Welder	01 no.	0.0552	0.0552	Competitive Bidding
32	Chair and table for the instructor	Chair- The Seat/Back are made up of 1.2cm thick hot pressed plywood and upholstered with fabric and moulded sheet and back covers. High Back Size - 50cm(W)*72cm(H) seat size 50cm(W)*46.5cm(D). The HR polyurethane foam moulded with density =45+/-2 Kg/m cube and hardness load 16+/-2Kg as per IS:7888 for 25% compression.The Seat Cover is injection moulded in black copolymer polypropylene and back cover is vacuum formed from ABS sheets. Armrests made of black integrat skin polyurethane with 50-70 shore 'A' Hardness and reinforced with M.S INSERT. The Chair has mechanism 360 degree revolving type and tilt tension adjustment. the twin wheel castors are injection moulded in black nylon. Colors: Carbon black, milan red, copper moon, platinum blue. Table-over all size 1345 W* 760D*735H(mm) table top made of 18 mm thick pre laminated board with 2mm thick lipping on the edges under structure madeup of MSERW square cube of 30*30*1.6mm thick , side , front , back panel made up of 18 mm pre laminated twin board .Table include pedespal madeup of combination of prelaminated panel and MS sheet over all size 439W*729D*536H(mm)	Welder	01 Set	0.1035	0.1035	Competitive Bidding
33	Students chairs with writing pads	Chair Frame made of M.S Square Pipe 25 mm ,thickness of pipe 1.5 mm, seat size18" x 18" , height 18" with arms, seat and back fitted of 12 mm moulded commercial ply, with writing pad of 20" x 14" made of commercial ply 19 mm with surmicca top having folding arrangement	Welder	20 Nos.	0.03165	0.621	Competitive Bidding
34	Instructors lap top with latest(vista & above) configuration pre loaded with operating system. and MS Office package.	4th Generation intel i7 processor(3.4 GHz, 8 MB Cache with 4GB RAM, 1 TB harddisk, wi-fi enabled, USB optical mouse, 15"LED Screen , Standard ports and connectors, DVD Writer, inbuilt Speakers and Mic. with web camera with preloaded licensed windows 8.1 or latest operating system and latest internet security input. preloaded licensed latest version MS Office .	Welder	01 No.	0.4945	0.4945	Competitive Bidding
35	LCD projector with screen.	3000 LMS WITH WXGA, SUPPORT HDMI & VGA PORT ,ANALOG IC AUDIO BUILT IN 16 W SPEAKER TO EXTERNAL SYSTEM PROJECTOR CONTROLLED RS-232 INCLUDED REMOTE CONTROL FULL HD IMAGE Anti-Dust Lens Hood & Anti-Dust Vertical Louver, with wall stand support monitor and windows Computer Memory Type: DDR SDRAM, Response Time: 54 Milliseconds, Image Aspect Ratio:16:9, Image Contrast Ratio: 2200:1, Noise Level-Noise Level, Wattage: 270 Watts, Total Usb Ports- 2, Horizontal Resolution :1280 Pixels, Max Vertical Resolution:800 Pixels , SACM 343 CM, 150 inches Diagonal in 4.3 Aspect Ratio, VIEW ANGLE : 180 DEGREE, 150" DIAGONAL, WHITE FABRIC HD , 3D & 4K TECHNOLOGY , HOME CINEMA, ELECTRONIC TYPE, FRAME RON METAL(Wrinkle-Free Materials & Structure, high-density nylon pixels, Screen Surface Description-Matte,Operation Mode Automatic, Radio Frequency Cordless Remote, Compatible With all the Projectors , Comes With 1080P- 3D - 4K - 8K Ready Technology.	Welder	01 No.	0.33	0.34	Competitive Bidding
36	Welding Process, Inspection & codes DVD/ CDs	Inspection & codes DVD/ CDs (as per NIMI & A.W.S)	Welder	01 Set Each (optional)	0.00575	0.0058	Competitive Bidding
37	Solar Charge controller with Dusk to Dawn automatic switching	Solar Charge controller with Dusk to Dawn automatic switching 12V, 10A Type of Product: Solar Charge Controller & Regulator Efficiency: >90%Model No: 12V-10A CC Power Consumption: 10 mAMax Solar Input: 12V-140W Max Battery Bank: 12V-120Ah Operating Temperature: upto 55°C	Solar Technician	05 Nos.	0.046000	0.23000	Competitive Bidding
38	Solar charge controller with manual switch (Day lighting)	Solar charge controller with manual switch (Day lighting) 12V, 10A Type of Product: Solar Charge Controller Charging Current (A): 10 A Current: 10 A Voltage: 12 V Panel Support: Up to 7000 Watts Wire Size: 16 Sq. mm	Solar Technician	05 Nos.	0.023000	0.11500	Competitive Bidding
39	Array junction box	Array junction box Material: Polycarbonate Size: 280x280x100 mm Features: 5 in 1 Out Usage/Application: Solar Panel Control System Number of Strings: 5 No. Of DC Inputs: 5 For connecting 200W x 4 Nos. solar panel with DC fuse, DC MCB and surge suppressor protection	Solar Technician	02 Nos.	0.057500	0.1150	Competitive Bidding
40	Solar lantern	Solar lantern LED type Includes Solar Light Voltage: 5 watts Back up Duration: Up to 3 hours Charging method/provision: Charging via Solar Panel Recharging Time: 5 hrs Portable, hand held lamp with two step dimming and embedded solar recharge panel Backlight with 120 degree illumination	Solar Technician	01 No.	0.011500	0.0115	Competitive Bidding
41	Solar lantern	Solar lantern CFL type 7Watt CFL Lantern Solar SMD Battery 7.2Ah/9V 12V With Total back up of battery will be min. 7-9 hours. System Voltage: 7W Input Voltage: 12V	Solar Technician	01 No.	0.011500	0.0115	Competitive Bidding
42	Solar lantern assembly sets	Solar lantern assembly sets Solar panel 10Watt/12V (With 3 meter wire) SOLAR LED solar lantern LED AND ACCESSORIES	Solar Technician	01 No.	0.023000	0.02300	Competitive Bidding
43	Home light system	Home light system 12V DC with FM receiver, LED bulb and mobile charger as loads Lithium Type: LED IP Rating: IP66 Back Up: 12 - 18 hrs Pv Module: Polycrystalline Bulb Type: LED 10W - 9W Power: 10W - 15W Charging Time: 5 to 6 hrs Case: ABS 12V Battery Box: 40Ah - 150Ah Load: Mobile Charger 12V 2.5 A	Solar Technician	01 No.	0.023000	0.02300	Competitive Bidding
44	Solar cell kit	Solar cell kit Bovall of cell Type Monocrystalline Power: 50 watt Material: Silicon Thickness: 180 Size: 225mm x 225 mm Lamp houses with power supply Solar cell mounted Connection leads LED is connected	Solar Technician	01 No.	0.03450	0.03450	Competitive Bidding
45	Chinometer	Chinometer for angle measurement Magnetic Base & Level Tube High-impact moulded body Acrylic capsule Anodized light-alloy housing Optical adjustment for reading Parallax-free lens Revolving bearing Damping liquid Nylon pouch with belt-loop Lanyard and metal lanyard ring Dimensions: 75 x 52 x 15 mm Weight: 110 g	Solar Technician	01 No.	0.17250	0.17250	Competitive Bidding
46	Spirit level	Performance Parameters Type of spirit level: Magnetic Accuracy to mm:0.5 mm Material of bubble tube: Glass Thickness of the tube: (in mm) 1.25 mm Name of the liquid filled in the tube: Industrial methylated spirit Warranty (in years): 1 Dimensional And Material Parameters Material of the spirit level: ABS plastic Length of spirit level (in mm): 300 Width of spirit level (in mm): 350 Height of the spirit level (in mm): 20 Weight of the spirit level (in gm): 25 Bubble opening length (in mm): 10 Bubble opening width (in mm): 10	Solar Technician	01 No.	0.00575	0.005750	Competitive Bidding
47	Anemometer	Performance Parameter Air velocity measurement accuracy +/- 1percent Air velocity measurement resolution:(meter/sec) 0.05 Temperature Accuracy +/- 1percent Minimum temperature measured 0 Degree Celsius Barometric Pressure Resolution in hPa:0.1 Minimum measurable air velocity (meter/sec) 0.5 Display: LCD Maximum Barometric Pressure Measured: 40 mm of Hg SD memory card size: 1 gigabyte Number Of Temperature Channels: 1 No. of digits of display: 3 PC Interface: USB Data Storage (samples) >=5000 set Minimum temperature measured: 0 Degree Celsius Maximum measurable air velocity (meter/sec): 20 Sensor: Height: 41 millimeter Certification: CE Additional Features: Built-in compass Measures Altitude Type: Sine Anemometer Case: ABS plastic Length: 106 millimeter Width: 89 millimeter Type Of Product: Accepted NA Probe length: 39.17 inch Battery: Alkaline	Solar Technician	01 No.	0.023000	0.023000	Competitive Bidding

DC table fan	DC table fan 12 V 12 APPLICATION / TYPE Application Oscillating DC Fans used in Automotive Vehicles such as Tempot, Car, Buses and Trucks Type Oscillating Type Type of Fan Motor DC Motor SIZE / PERFORMANCE Fan Size 150 millimeter Rated Voltage 12 Volt Operating Voltage 9 to 13.8 Volts RPM or Maximum Speed 2800 Current Consumption/Maximum Speed 2 Ampere Air Delivery @ Maximum Speed(70) 300 Adjustable vertical tilt Range 45 degree or more Angular movement of Oscillation 60 degree Speed adjustment Single Speed Operating Temperature Up to 70 degree Celsius GENERIC Construction Rugged construction to work for longer hours Number of Blades 4 Material of Blade Polypropylene Fan Mounting Vehicle Mountable Material of the Mounting Bracket Electro Plated Steel Blade Mounting material Copper Fan Guard CRP Fan Guard Material Polished / Electro Plated metal wire Length of Cord Inclusive in the scope of supply 7.15 meter On-Off Switch Yes Body Colour As per Buyer's requirement Blade Colour As per Buyer's requirement Overall Dimension 150mm Weight(gram) 800 gram Additional Features, if any Features/Options not Contradictory to technical Specification of the Product OSCILLATING FAN of Items and Quantity of each Item included in the offer DC FAN	Solar Technician	01 No.		0.017250	0.01725	Competitive Bidding
A.C. Voltmeter M.I	A.C. Voltmeter Moving Iron (MI) 0 -500V AC. GENERIC Voltmeter generally conforming to IS 1248:2003 (Part 1, Part 2) latest Yes Designed to measure A.C. voltage, these meters indicate true r.m.s. values Yes Type of meter Moving iron Type of scale 90 deg Measuring parameters AC Voltage No. of Phase (In part) Single Phase support Range of measurement 0 Volt to 150 Volt Accuracy class 1.5 Size of the meter (in mm x in mm) 48 x 48 Volt meter shall pass Dielectric voltage with stand 2 KV AC Case Material Poly carbonate IP protection class (as per IS/IEC:60529:2001) IP 52 Operating temperature 0 to 40 deg.C Humidity range Upto 95% (RH) non condensing	Solar Technician	02 Nos.		0.01725	0.03450	Competitive Bidding
Volt meter	Volt meter 0 -30V MC type GENERIC Voltmeter generally conforming to IS 1248:2003 (Part 1, Part 2) latest Yes Designed to measure A.C. voltage, these meters indicate true r.m.s. values Yes Type of meter Moving iron Type of scale 90 deg Measuring parameters AC Voltage No. of Phase (In part) Single Phase support Range of measurement 0 Volt to 150 Volt Accuracy class 1.5 Size of the meter (in mm x in mm) 48 x 48 Volt meter shall pass Dielectric voltage with stand 2 KV AC Case Material Poly carbonate IP protection class (as per IS/IEC:60529:2001) IP 52 Operating temperature 0 to 40 deg.C Humidity range Upto 95% (RH) non condensing	Solar Technician	02 Nos.		0.004888	0.009775	Competitive Bidding
Volt meter	Volt meter 0 -100 V MC type GENERIC Voltmeter generally conforming to IS 1248:2003 (Part 1, Part 2) latest Yes Designed to measure A.C. voltage, these meters indicate true r.m.s. values Yes Type of meter Moving iron Type of scale 90 deg Measuring parameters AC Voltage No. of Phase (In part) Single Phase support Range of measurement 0 Volt to 150 Volt Accuracy class 1.5 Size of the meter (in mm x in mm) 48 x 48 Volt meter shall pass Dielectric voltage with stand 2 KV AC Case Material Poly carbonate IP protection class (as per IS/IEC:60529:2001) IP 52 Operating temperature 0 to 40 deg.C Humidity range Upto 95% (RH) non condensing	Solar Technician	02 Nos.		0.005750	0.01150	Competitive Bidding
Ammeter MC	Ammeter Moving Coil (MC) 0 -1A GENERIC Ammeter generally conforming to IS 1248:2003 (Part 1, Part 2) latest Yes Designed to measure A.C. Current, these meters indicate true r.m.s. values Yes Type of meter Moving coil Case Material Poly carbonate Type of scale 90 deg Measuring parameters AC Current No. of Phase (In part) Single Phase support Range of measurement 0 A to 2 A Accuracy class 1.5 Size of the meter (in mm x in mm) 72 x 72 IP protection class (as per IS/IEC:60529:2001) IP 54 Operating temperature 0 to 40 deg.C Humidity range Upto 95% (RH) non condensing	Solar Technician	02 Nos.		0.057500	0.01150	Competitive Bidding
Ammeter MC	Ammeter MC-D 5A GENERIC Ammeter generally conforming to IS 1248:2003 (Part 1, Part 2) latest Yes Designed to measure A.C. Current, these meters indicate true r.m.s. values Yes Type of meter Moving coil Case Material Poly carbonate Type of scale 90 deg Measuring parameters AC Current No. of Phase (In part) Single Phase support Range of measurement 0 A to 5 A Accuracy class 1.5 Size of the meter (in mm x in mm) 72 x 72 IP protection class (as per IS/IEC:60529:2001) IP 54 Operating temperature 0 to 40 deg.C Humidity range Upto 95% (RH) non condensing	Solar Technician	02 Nos.		0.0069	0.0138	Competitive Bidding
Ammeter MC Centre zero	Ammeter MC Centre zero 0 -20A GENERIC Ammeter generally conforming to IS 1248:2003 (Part 1, Part 2) latest Yes Designed to measure A.C. Current, these meters indicate true r.m.s. values Yes Type of meter Moving coil Case Material Poly carbonate Type of scale 90 deg Measuring parameters AC Current No. of Phase (In part) Single Phase support Range of measurement 0 A to 20 A Accuracy class 1.5 Size of the meter (in mm x in mm) 72 x 72 IP protection class (as per IS/IEC:60529:2001) IP 52 Operating temperature 0 to 40 deg.C Humidity range Upto 95% (RH) non condensing	Solar Technician	02 Nos.		0.00805	0.016	Competitive Bidding
Ammeter MC Centre zero	Ammeter MC Centre zero 0 -50A GENERIC Ammeter generally conforming to IS 1248:2003 (Part 1, Part 2) latest Yes Designed to measure A.C. Current, these meters indicate true r.m.s. values Yes Type of meter Moving coil Case Material Poly carbonate Type of scale 90 deg Measuring parameters AC Current No. of Phase (In part) Single Phase support Range of measurement 0 A to 50 A Accuracy class 1.5 Size of the meter (in mm x in mm) 72 x 72 IP protection class (as per IS/IEC:60529:2001) IP 52 Operating temperature 0 to 40 deg.C Humidity range Upto 95% (RH) non condensing	Solar Technician	02 Nos.		0.00920	0.01840	Competitive Bidding
Power Factor Meter	Power Factor Meter GENERIC Display type 7 segment Red LED display Maximum display 4 digit to indicate PF Resolution 0.001 PF Case/ Housing material Polycarbonate No. of Phase/Element/Wire 3 Phase, 1 Element, 4 Wire Input voltage 440 V Input current 0 to 5A, AC Input frequency 50/60 Hz Classification (Accuracy) 0.5 Size of the meter (in mm x in mm) 96 x 96 IP protection class (as per IS/IEC:60529:2001) IP 55 Operating temperature 0 to 50 deg.C Humidity range Upto 95% (RH) non condensing	Solar Technician	01 No.		0.0173	0.0173	Competitive Bidding
rheostat	Rheostat R 0 - 1 Ohm, 5 Amp, Sliding Type, Wire Wound R 10 - 10 Ohm, 5 Amp, Sliding Type, Wire Wound R 0 - 25 Ohm, 1 amp, Sliding Type, Wire Wound R 0 - 200 Ohm, 1 amp, Sliding Type, Wire Wound	Solar Technician	01 No. each		0.0081	0.0322	Competitive Bidding
A.C. Energy Meter	A.C. Energy Meter Phase Single Phase, Current Rating 10 A, Voltage Rating 240 V, Type Induction type	Solar Technician	01 No.		0.01725	0.01725	Competitive Bidding
A.C. Energy Meter	A.C. Energy Meter Phase Three Phase, Current Rating 15 A, Voltage 440 V, Type Induction type	Solar Technician	01 No.		0.02300	0.0230	Competitive Bidding
Kilo Wattmeter Analog	Kilo Wattmeter Analog 0.15-3KW, precision cut rating 240V/440V, current rating 5A/10A Analog, Portable housed in aluminium case AC 50HZ, Inve. - Star 2 Ohm x 0.00mm x 10 mm	Solar Technician	02 Nos.		0.34500	0.0690	Competitive Bidding
Digital Wattmeter	Digital Wattmeter 230V, 1 KW, 50 Hz Digital Wattmeter - 230 volt, 1 KW, 50Hz Technical Specifications :- Input Voltage - 10-300V Input Current: 0.01 to 1 A / 0.05 to 5A / 0.1 to 10A Accuracy Class 0.5 Resolution - Floating Decimal Point Panel Dimension - 96 X 96 X 0.05 mm Auxiliary - 230 V + 20%, Applicable at all Power Factor	Solar Technician	02 Nos.		0.09200	0.0184	Competitive Bidding
Phase Sequence Indicator	Phase Sequence Indicator 3 Phase, 415 V, static type, Detection method: Electrostatic induction Dimensions: 112(L) x 44(W) x 36(D) mm Measuring frequency range: 45 to 60Hz Measuring voltage range: From 70 to 1000V AC phase to phase (line wires, continuous input) Test leads: Double insulated cables, length approx. 70cm Weight Approx: 300g Clamp diameter range From 2.4 to 30mm insulated cables Operating temperature -10 to 50 Degree C	Solar Technician	02 Nos.		0.01725	0.03450	Competitive Bidding
Frequency Meter	Frequency Meter 45 to 55 Hz Frequency Meter - 45 to 55 Hz, 230V AC supply, Size: 96 mm x 96 mm Type: Panel Type Display: LED	Solar Technician	02 Nos.		0.00460	0.0092	Competitive Bidding
DC LED Lamp	DC LED Lamp A) 3 W, 300 Lumen, Material of Polycarbonate and Aluminium. B) 5 W, 500 Lumen, Material of Polycarbonate and Aluminium. C) 10 W, 1000 Lumen, Material of Polycarbonate and Aluminium	Solar Technician	50 Each		0.00345	0.1725	Competitive Bidding
DC Pump	DC Pump 24 V Item Dimensions: LxWxH 25 x 14 x 16 Centimeters Power Source: Solar Powered Maximum Flow Rate: 1500 Liters Per Hour Maximum Lifting Height: 50 Feet High efficiency bearing, quiet, stable operation, high load impured lubricating grease, long service life. Solar panel working 24 volt 725 watt direct solar panel 12 volt 150 x 2 series connection. Can work on direct solar panel 24 volt 250 watt size.	Solar Technician	02 Nos.		0.09200	0.1840	Competitive Bidding

65	PWM Controller	<p>PWM Controller Overload, Short Circuit Protection YES</p> <p>No Load Current <math>I_{no-load}</math></p> <p>Charging Circuit Voltage Drop Not more than 0.20V</p> <p>Discharging Circuit Voltage Drop Not more than 0.15V</p> <p>DC Charge Voltage 14.4 Volt / 28.8 Volts</p> <p>Fast Charging 1.7 Volt / 3.4 Volt</p> <p>Temperature Compensation: $5mV/^{\circ}C/2V$</p> <p>Automatic Disconnection Output Voltage 16.5 Volt / 21 Volt</p> <p>Control Method: Charging Inductance with PWM (pulse width modulation)</p>	Solar Technician	04 Nos.	0.46000	0.1840	Competitive Bidding
66	MPPT Charge Controller	<p>MPPT Charge Controller Usage/Application Solar System Controller</p> <p>Power 1200W</p> <p>Model Name/Number REHub MPPT</p> <p>Voltage 12V</p> <p>Charge Controller Type: MPPT CHARGE CONTROLLER</p> <p>Rated Voltage: 12V Battery system, 500 use</p> <p>Type: Automatic</p>	Solar Technician	04 Nos.	0.05750	0.0230	Competitive Bidding
67	Inverter with Battery	<p>Inverter with Battery 1 KVA with 12 V Battery</p> <p>Inverter Governing specification Generally conforming to IS:13314</p> <p>Technology MOSFET FROM</p> <p>Energy Star Rating 4 Star</p> <p>Trolley without trolley</p> <p>Backup time (Minutes) Without Battery</p> <p>CONSTRUCTIONAL</p> <p>Thickness of sheet for trolley (in mm) minimum 1.2</p> <p>Trolley Material CRGA Steel</p> <p>Type of enclosure CRGA Steel</p> <p>Thickness of sheet for enclosure (in mm) minimum 1.2</p> <p>Inverter shall have by pass facility Yes</p> <p>FUNCTIONAL</p> <p>Total Harmonic distortion <math><=0.5%</math></p> <p>Input Single Phase sine wave (230 to 240V)</p> <p>Output Single Phase sine wave 230 V</p> <p>Inverter Efficiency (%) $>=97%$</p> <p>Overload Time (in Minutes) $>=10$</p> <p>Overload of rated load (in %)$>=10$</p> <p>PROTECTION</p> <p>Battery cutoff voltage to protect from overdischarge (in Volt) $>=16.5$</p> <p>Degree of protection IP 21</p> <p>METERING AND INDICATIONS</p> <p>The inverter shall be provided with output voltage and current meters conforming to IS 2419: 1979 and of an accuracy class not inferior to 2.5 in accordance with IS 1248: 1983</p> <p>Tests</p> <p>Battery</p> <p>Type of Lead Acid of Battery Small sealed Valve Regulated Lead-Acid Batteries (SMF) conforming to IS: 8702/1998 (Part 1, 2 & 3) with latest amendments</p> <p>Nominal Voltage of Battery (in V) 12.8 Volt</p> <p>Material of container Polypropylene</p> <p>Rated Capacity at C20 discharge (Ah) 75</p> <p>Warranty (Years) 1 Year</p> <p>Battery Condition Charged</p> <p>CONSTRUCTIONAL</p> <p>Dimensions (L x W x H) (mm x mm x mm) As per relevant IS Specifications</p> <p>Volume of Electrolyte (ml) 10</p> <p>Weight of Dry Battery (kg) shall be as per relevant IS: Specs., corresponding Ah Yes.</p> <p>Self-discharge rate (in %/6 Months) 12.5% battery</p>	Solar Technician	01 No.	0.23000	0.2300	Competitive Bidding
68	Solar PCU	<p>Solar PCU off grid 1 KW MPPT Solar wave Solar</p> <p>Power Conditioning Unit</p> <p>Grid Type: Off Grid</p> <p>Input Voltage: 120 V</p> <p>Operating Temperature: -10 to 50 Degree C</p> <p>Frequency Hz: 50 Hz</p> <p>Phase: Single</p> <p>Efficiency: 0.9%</p> <p>Display: Graphical LCD With Backlight</p> <p>Charging Type: MPPT</p>	Solar Technician	04 Nos.	0.57500	2.3000	Competitive Bidding
69	Solar Grid tied inverter Demonstrator kit	<p>Solar Grid tied inverter Demonstrator kit 300 watt</p> <p>Wires with MPPT charge controller with 4 mm² dc cable connector and array junction box</p> <p>Charging Type: MPPT</p>	Solar Technician	01 No.	0.37500	0.3750	Competitive Bidding
70	Solar Street Light	<p>Solar Street Light 12V, 7.5Ah battery,</p> <p>75 Watt polycrystalline solar panel, 12V,</p> <p>10A diode to down charge controller,</p> <p>16 W LED lights and</p> <p>9 m height iron pole. All dismantlable</p>	Solar Technician	01 Nos.	0.20700	0.2070	Competitive Bidding
71	Solar, wind and hybrid power plant	<p>Solar, wind and hybrid power plant, 1 KW cumulative</p> <p>Capacity 1 KW</p> <p>Wind Components: Maximum Power Output 1KW @ 9m/s RPM,</p> <p>Power Generation 200 rpm / 12V/24V/3C.</p> <p>Maximum Voltage 56 VDC, Maximum Current 20 Amps.</p> <p>Motor Diameter 20 CM Blade size 100cm Blade Thickness 5 inch</p> <p>Cut-In Wind Speed 4.5 mph / 2 m/s Cut-Out Wind Speed 38 mph /</p> <p>15.5 m/s Blades Material: Glass-fiberglass with anodizing Body of turbine: MS/SS</p> <p>Features:-</p> <ul style="list-style-type: none"> A well equipped System to understand the Solar/Wind Hybrid System Solar Panels are provided to generate the Solar Power A wind Mill attached to the System Digital functioning Control panel to control and monitor the Solar wind and Electric power Complete manual Manual AND instruction to be provided <p>Solar Traffic Light 12V, 7.5Ah battery, 75 Wp solar panel, 12V,</p> <p>10A diode to down charge controller,</p> <p>15 W LED lights with suitable colors and</p> <p>9 m height pole</p> <p>All dismantlable</p>	Solar Technician	01 No.	2.87500	2.8750	Competitive Bidding
72	Solar Traffic Light	<p>Solar Traffic Light 12V, 7.5Ah battery, 75 Wp solar panel, 12V,</p> <p>10A diode to down charge controller,</p> <p>15 W LED lights with suitable colors and</p> <p>9 m height pole</p> <p>All dismantlable</p>	Solar Technician	01 No.	0.23000	0.2300	Competitive Bidding
73	Used water treatment solar plant demonstrator kit	<p>Used water treatment solar plant demonstrator kit 1 liter capacity</p>	Solar Technician	01 No.	0.57500	0.5750	Competitive Bidding
74	solar DC pump	<p>GENERIC</p> <p>Conformity to Indian Standard Ministry of New and Renewable Energy, SOLAR PHOTOVOLTAIC WATER PUMPING SYSTEMS FOR MICRO PUMPING Applications (2016-17)</p> <p>Solar Photovoltaic (SPV) Water Pumping System Solar Photovoltaic (SPV) Water Pumping Systems are basically for "MICRO PUMPING" applications. However, these may also be used for "Drinking Water Applications" wherever such capacities are required</p> <p>Model Number as per MRE specification Model III</p> <p>Motor Capacity: 2 horsepower</p> <p>PV Array (Wp) others</p> <p>Shut Off Dynamic Head 45 meter</p> <p>PV ARRAY</p> <p>Operation of SPV Pumping System The SPV water pumping system should be operated with a required PV array capacity measured under Standard Test Conditions (STC). Number of modules in series and parallel should be used to obtain the required PV array power output 12</p> <p>The power output of individual PV modules used in the PV array, under STC (in Watts Peak) 250</p> <p>Source of PV Module Indigenously produced PV module (i) containing mono/ multi crystalline silicon solar cells</p> <p>PV module certification Certificate as per IEC 61215 specifications or equivalent National or International/ Standards</p> <p>Safety Qualification Testing Modules must qualify to IEC 61730 Part 1 and II for safety qualification testing</p> <p>Efficiency of the PV module (%) 15.42</p> <p>Fill factor for PV module (%) 70</p> <p>The terminal box on the module should have a provision for "Opening" for replacing the cable, if required Yes</p> <p>Dimension of PV module (mm x mm x mm) 1650*90*15</p> <p>PV Array should be mounted on a suitable structure with a provision for manual tracking Yes</p> <p>Marking on PV module Name, Plate fixed inside the module which will give: a. Name of the Manufacturer or Distributive Logo, b. Model Number, c. Serial Number, d. Year of manufacture, e. Made in India (Subscribe in words)</p>	Solar Technician	01 No.	0.17250	0.1725	Competitive Bidding
75	Demonstration kit for wind generation (Wind turbine with blower)	<p>Demonstration kit for wind generation (Wind turbine with blower) 300 W</p> <p>Product Specification</p> <p>Voltage 230 V</p> <p>Rated Power: 300W</p> <p>Rated Wind Speed: 12m/s</p> <p>Height: 12V/24V</p> <p>Material: SS, Carbon Fiber</p> <p>Height: 01 feet</p>	Solar Technician	01 No.	0.23000	0.2300	Competitive Bidding
76	Rechargeable battery	<p>Rechargeable battery 12 V 100 Ah</p> <p>Voltage 12 V</p> <p>Battery Type: Lithium-Ion</p> <p>Capacity: 100 Ah</p> <p>Charge with Recommended Charger only</p>	Solar Technician	01 No.	0.09200	0.0920	Competitive Bidding
77	Rechargeable battery	<p>Rechargeable battery 12 V 7 Ah</p> <p>Rated Capacity: 7 Ah</p> <p>Type of Product: Sealed Battery,</p> <p>Battery Type: Wet battery,</p> <p>Voltage Output: 12 V</p>	Solar Technician	01 No.	0.01150	0.0115	Competitive Bidding
78	Rechargeable battery	<p>Rechargeable battery 6 V 5 Ah</p> <p>Rated Capacity: 5 Ah</p> <p>Type of Product: Polymer Ni-mh Rechargeable 5 Cell Battery,</p> <p>Battery Type: 5 Cell Ni-mh, Voltage: 6V</p> <p>Battery Size: 68x45x18 mm approx.</p>	Solar Technician	01 No.	0.01150	0.0115	Competitive Bidding
79	LED lights	<p>LED lights 12 V DC, 120W Lumens, Material: Aluminium and Polycarbonate</p>	Solar Technician	01 No.	0.00345	0.0035	Competitive Bidding
80	LED lights	<p>LED lights 12 V DC, 400 Lumens, Material: Aluminium and Polycarbonate</p>	Solar Technician	01 No.	0.00173	0.0017	Competitive Bidding
81	Rubber gloves	<p>Rubber gloves</p> <p>Material: Rubber</p> <p>Re-use/ Reusable</p> <p>Test Capacity: 13000Volts</p> <p>Working Capacity: 11000Volts</p> <p>Size: Standard</p> <p>Best Quality of Rubber: Shock Resistor</p>	Solar Technician	10 Pair	0.00115	0.0115	Competitive Bidding
82	Cotton gloves	<p>Cotton gloves made of cotton</p> <p>Color: White</p> <p>Finger Type: Full Fingertip</p>	Solar Technician	05 Pair	0.00173	0.0086	Competitive Bidding
83	Gum boots	<p>Gum boots</p> <p>Adhesion resistance, oil and acid resistance, slip resistance, material polyvinyl chloride,</p> <p>300 Degree centigrade heat resistance, Size: 9-10</p>	Solar Technician	02 Pair	0.01150	0.0230	Competitive Bidding

113	Vacuum cleaner	<p>Vacuume 10/1220 mBar Airflow rate (trusSec) 54 Suction Hose length 4 meter Floor Nozzle size 150 millimeter Types of Cleaning operation Wet and Dry Duty Cleaning Container Capacity 77 liter Warranty 1 year FILTER Filter Dust class as per EN 779:2012 Classification G4 Filter Area(square meter) 1 Filter clean operation Manual PERFORMANCE Vacuume level 220 mBar Airflow rate (trusSec) 54 Suction Hose length 4 meter Floor Nozzle size 150 millimeter Power Supply 230 + 10 % VAC, Single Phase, 50 +/- 2 % HZ Rated input power during operation 2.4kwatt Power Cord Length 10 meter MOTOR Number of Motors 2 Power of Each Motors 45 Watt RPM 345 FEATURES Types of Cleaning operation Wet and Dry Duty Cleaning Provision Pneumatic Tool Running Automatically With Vacuum No Pneumatic tools Running Power 550 Watt Provision Power Tool Running Automatically with Vacuum Yes Provides hot wet and dry pickup without having to stop to change filters dry mode to wet mode No Storage facility and integrated accessories holder for tools No Start and Stop auto switch on/off power tool Yes Internal auto on/off system for pneumatic and electric tools Yes</p>	animation & special effects		0.34500	0.3450	Competitive Bidding
114	Pigeon hole cabinet	<p>10 COMPARTMENT WITH 20 GAUGE Width (cm)-90.5, height-185 cm , depth -40 cm , Door Handle Type-swing , Lock Type-Keypad,Method of Construction- Welded, dual color deco paint. CRCA Steel</p>	Multimedia animation & special effects	1 No.	0.11500	0.1150	Competitive Bidding
115	Chair and table for the instructor	<p>Chair-The Seat/Back are made up of 1.2cm thick hot pressed plywood and upholstered with fabric and moulded sheet and back covers. High Back Size - 50cm(W)*72cm(H) seat size 50cm(W)*46.5cm(D). The HR polyurethane foam moulded with density =45+/-2 Kg/m cube and hardness load 16+/-2Kg as per IS:7888 for 25% compression.The Seat Cover is injection moulded in black copolymer polypropylene and back cover is vacuum formed from ABS sheets. Armrests made of black integrat skin polyurethane with 50-70 shore 'A' Hardness and reinforced with M.S INSERT. The Chair has mechanism 360 degree revolving type and tilt tension adjustment. the twin wheel castors are injection moulded in black nylon. Colors: Carbon black, milan red, copper moon, platinum blue. Table-over all size 1345 W* 760D*735H(mm) table top made of 18 mm thick pre laminated board with 2mm thick lipping on the edges under structure madeup of MSERW square cube of 30*30*1.6mm thick , side , front , back panel made up of 18 mm pre laminated twin board .Table include pedespal madeup of combination of prelaminated panel and MS sheet over all size 439W*729D*536H(mm)</p>			0.11500	0.1150	Competitive Bidding
116	Dual Desk or Chair and Tables for Trainees	<p>DESK SIZE- 1200*400*750MM , CHAIR SIZE - 1200*240*450MM. TOP AND BENCH MATERIAL - KIKKER WOODEN , FRAME MATERIAL -MILD STEEL ANGLE 35*35*5 MM</p>	Multimedia animation & special effects	1 No.	0.11500	0.1150	Competitive Bidding
117	Computer table	<p>Computer table size 48" x 24" x 30" . Frame made of 1" sq. Pipe of 18g. One drawer fitted on right side and made of 22g. Sheet. Top made of 18mm. Board with .8mm sun mica. One sliding tray for key board & two shelves under the top made of 18mm. Board . Both side of table covered with dual color paint. complete with drawers & shelf to accommodate UPS & CPU. ISI marked boards, angles, sheets.</p>		12/24 Nos	0.02875	0.3738	Competitive Bidding
118	Operators chair	<p>508*482*1021 MM, CASTOER WHEEL , ADJUSTABLE HEIGHT ,WITHOUT ARMS,plywood pholstered with fabric and moulded polyurethane.</p>	Multimedia animation & special effects	11 Nos	0.17250	0.4140	Competitive Bidding
119	Printer table	<p>650X500X750 mm , LAMINATED TOP 18 mm both sides with (1.5 MM SUNMICA)WITH METAL PIPES COATED WITH EPOXY POWDER Dia-2.5mm</p>		12 Nos	0.02875	0.0863	Competitive Bidding
120	Air conditioner	<p>SPLIT AC 2 TON ,HOT & COLD , Annual Power Consumption: 1013.01 kWh , Copper Condenser Coil with Shield Blu Technology: Anti Corrosion Blue Fin Technology , Wi-Fi Air Conditioner Works with Amazon Alexa and Google Assistant Voice Control Smart Diagnosis with One Touch Service Shield Blu Anti Corrosion Technology, Indoor Unit Dimension i CM :107(L),23.5(B),29(H) Outdoor Unit Dimension in CM :82.4(L),29.9(B),61.9(H) IDU Weight : 12 kg ODU Weight : 31 Kg, Cooling Capacity - 6600 Watts Copper Condenser, Annual Energy Consumption- 1560 Kilowatt Hours Per Year, Noise Level-42 dB, Voltage-240 Volts , Wattage-1850 Watts,</p>	Multimedia animation & special effects	3 Nos	0.80500	2.4150	Competitive Bidding
121	Storage cabinet	<p>Conformity to Indian Standard IS:3313 Latest Number of Drawer (NOS) 4 Label holder Provided Yes Drawer suspension Ball Slide (Not as per IS 3313) Lock Provided Locking Mechanism central locking mechanism Movable with Wheels at bottom No Type of Wheel No Wheels Loading Capacity of drawer in kg (+/- 2 Kg) 40 kilogram MATERIAL Sheet Thickness of Side, Back, Top and bottom in mm (+/- 5%) 0.5 millimeter Sheet Thickness of Filing Drawer in mm (+/- 5%) 0.5 millimeter Clutch compressor strip or Cradle strip MS Sheet (Not as per IS 3313) Material of wheel N.A DIMENSION</p>		As required	0.11500	0.1150	Competitive Bidding
122	White Board	<p>Overall Height +/- 10(mm) 1370 millimeter Width +/- 10 (mm) 450 millimeter Depth +/- 10(mm) 750 millimeter Height of smallest Drawer +/- 10(mm) N.A Height of medium Drawer +/- 10(mm) N.A Height of largest Drawer +/- 10(mm) N.A Size of Wheel (Dia) +/- 2 mm N.A COLOUR & FINISH Colour of Paint gray Finish powder coated Packing Gutta packing</p>	Multimedia animation & special effects	1 No.	0.11500	0.1150	Competitive Bidding
123	Steel Almirah	<p>size- 4* 6 FEET , Primary Material -Ceramic , easy for writing, paint, erasing, drawing pictures and signs.write with marker in white surface and with chalk on reverse green surface</p>		1 No.	0.11500	0.1150	Competitive Bidding
124	Fire Extinguisher CO2	<p>Operating PressurE-250 bar Body Material-Mild Steel Capacity-2 kg, Temperature Range- -30 to 60 deg C Discharge Time- More then 08 sec.</p>	Multimedia animation & special effects	1 No.	0.03450	0.0690	Competitive Bidding
				2 Nos			

125	Fire Buckets	CAPACITY -9 LTR WITH STAND METAL -18-20 SWG , FINISHED PAINTED RED height- ,14 inch , dia -9.5 inch , HOOKS FOR BUCKETS,Material-MS,		0.0020	0.0184	Competitive Bidding	
TOTAL			7 Nos		44 lakh		
3.Training of Teaching and management staff :- (Rs. 1.4 Lakh)							
Sr. No.	Name of items	Specifications	Trade/Course for which it is required	Total Required	Rate/Unit 1 (in INR lakh)	Total (in INR lakh)	Method of Procurement(e.g. Shopping/Competitive Bidding)
1	Hiring of Motivational speaker/ Professional Trainer/ Expert for training of trainers.	Topic to be covered in Training • Capacity Building • Positive attitude and aptitude • Initiative, creative and innovative approach • Presentation preparation • Personality development and body language • Time management and planning	All Technical and administrative staff	30-50 HRS	2500/-hr	1.4	Competitive Bidding/Shopping
2	Travel expenses boarding & lodging and other expenses/ allowances for teaching and management staff as per applicable norms and rules.						
4.Information & communication Technology (ICT) Infrastructure:- (Rs. 0.0 Lakh)							
5.Purchase of books and other learning materials :- (Rs. 0.0 Lakh)							
6.Facilities for Trainees:- (Rs. 6.5 Lakhs)							
Sr. No.	Name of items	Specifications	Trade/Course for which it is required	Total Required	Rate/Unit 1 (in INR lakh)	Total (in INR lakh)	Method of Procurement(e.g. Shopping/Competitive Bidding)
1	Reimbursement of transport charges to women trainees and hiring of vehicle for transportation of trainees to industry premises for OJT.		All trainees of institute			6.5	Competitive Bidding/Shopping
2	Hiring of motivational speaker/Professional Trainer/Expert for training of trainee's	Topic to be covered in Training • Motivation and behavior • Communication skill • Personality development • Preparation for Interview and Group discussion • Improvement in Confidence • Team work • Discipline • Career development • Problem solving and decision making • Basic knowledge about industry (Safety, kaizen, PPEs, 5S, 3R, 7 waste etc.)	All trainees of institute	30-50 HRS	2500/-hr		