

**STANDARD LIST**  
**FIELD TECHNICIAN COMPUTING & PERIPHERALS**

SECTOR: ELECTRONICS

SUB-SECTOR: IT HARDWARE

REFERENCE ID: ELE/Q4601



**State Council of Educational Research and Training(SCERT)**  
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This list of equipment, tools, furniture & consumables are prepared for a batch of 30 students.

<b>Part A - EQUIPMENTS</b>			
SL NO	NAME	SPECIFICATION	QUANTITY
1	<b>Computer (Desktop/Laptop)</b>	as per Kerala Govt specification	15 Nos
	i) processor	8th Generation core i3 or high	
	ii) mother board	OEM (Compactable with processor )	
	iii) monitor,	15" or high	
	iv) hard disk,	500 GB or high	
	v) RAM,	4GB DDR4L SDRAM or high	
	vi) OPTICAL drive	8X DVD -RW	
	vii) Graphics	Intelhd graphics 520or high(optional)	
	viii) sound	stereospeaker (optional)	
	ix) key board	USB	
	x) mouse,	USB optical scroll mouse	
2	<b>Desktop kit</b>	(for 2 different processor)	3 each
	i) processor(intel and AMD)	8th Generation core i3 or high	
	ii) mother board	OEM (Compactable with processor )	
	iii) monitor,	15"or high ( optional )	
	iv) hard disk,	500 GB or high	
	v) RAM,	2GB DDR4L SDRAM or High	
	vi) OPTICAL drive	8X DVD -RW( optional )	
	vii) key board	USB ( optional )	
	viii) mouse,	USB optical scroll mouse( optional )	
	xi) cabinet	with SMPS	
3	<b>Server</b>	Rack-mounted server	1 Nos/batch
	i) PROCESSOR	Xeon Processor E5 V3 3.5 GHZ or high	
	ii) Memory	8GB (1x8GB, 2Rx8, 1.2V) PC4-17000 DDR4 2133MHz LP ECC UDIMM , upgradable up to 32gb	
	iii) Hard Disk Drive	1TB 7.2K 6Gbps NL SATA 3.5" G2SS HDD,support SAS controller	
	iv) RAID	ONBOARD C110 Software RAID 0,1 etc. support	
	v) OS SUPPORT	Microsoft® Windows Server 2012, Red Hat Enterprise Linux®	
	vi) SMPS	500 W (Redundant power supply) form factor :2u,(16u)	
	vii) server rack		

	<b>Laptop kit</b>		3 Nos
4	i) notebook shell	laptop case with mother board and optical drive	
	ii) processor	compactible with shell mother board ( core i3 or high)	
	iii) hard disk	1Tb	
	iv) RAM	1GB or high	
	v) Graphics card	1GB or high	
	vi) battery	compactible with shell	
	vii) charger	compactible with battery	
	viii) wireless Wi-Fi/Wlan card	802.11n /802.11ac	
5	Graphics card	1 GB or High	3 Nos
6	L A N card	100Mbps or high	3 Nos
7	Scanner (Flatbed)	2000DPI or more	1 Nos/batch
8	Dot metrics printer	9 pin SIDM USB,serial& Parallel Ports	1 Nos per batch
9	LaserJet printer	printer resolution--600 DPI or high Print speed--23 pages or high internal memory--64 mb or high	1 Nos per batch
10	Inkjet printer	printer resolution--600 DPI or high Print speed--20 pages or high internal memory--128 mb or high	1 Nos/batch
11	Network printer	printer resolution--600 DPI or high Print speed--20 pages or high internal memory--128 mb or high connectivity-- usb&Ethernet	1 Nos/batch
12	Web camera	640x480 sensor resolution	1 Nos/batch
13	network switches	8 port and 24 port	1 Nos/batch
14	Wi-Fi router	100 Mbps Speed or high Frequency: 2.4 GHz or 5 GHz External Antenna	1 Nos/batch
15	1KVA U P S with external battery	1 KVA	1 Nos/batch
16	external hard disc	1 Tb	1 Nos/batch
17	Pen drive	32GB	3Nos/batch
18	Oscilloscope (DIGITAL)	dual channel 100Mhz	1 Nos/batch
19	Function generator	5 Mhz	1 Nos/batch
20	Variable DC Power Supply	0-30V 2A	1 Nos/batch
21	Megger	500volts	1 Nos/batch
22	S M P S Tester(Power supply tester)	20/24 Pin	3 Nos
23	Multimeter (DIGITAL)	DC Voltage 0.1mv-1000v AC Voltage 0.1mv-750V AC & DC Current range 15A	5 Nos
24	Hand Drilling Machine Assorted with Drill Bits(Power Drill )	500 w	1 Nos/batch
25	Handy vacuum cleaner	800 W	1 Nos/batch

26	Network Cable Tester	RJ45connectivity	4 Nos
27	Air Blower	500 w or high	1
28	Air Blower	500 w or high	1

**Part B–SOFTWARE**

SL NO	NAME	SPECIFICATION	QUANTITY
1	WINDOWS	10 pro 0r high	multi user (for 5 user each)
2	WINDOWS SERVER	2012 or high	4 Nos
3	Antivirus software	for desktop	6 Nos
4	Microsoft office		6 Nos
5	Ubuntu		20 Nos
6	Linux server pack		10 Nos

**Part C - TOOLS and ACCESSORIES**

SL NO	NAME	SPECIFICATION	QUANTITY
1	Long Nose Plier Insulated	200 Mm	9 Nos
2	Flat Nose Plier Insulated	150 Mm	6 Nos
3	Needle-nosed pliers	280 mm	6 Nos
4	Wire cutters	100/150 mm	10 Nos
5	Hx wrench set(Allen Key Set )	07Mm--3Mm	6 Nos
6	Torx screwdriver	150mm	6 Nos
7	Nut driver	one set	6 Nos
8	Three-claw component holder		6 Nos
9	Wire stripper	6 inch	10 Nos
10	Crimping tools	Terminates RJ11.RJ12 &RJ45 modular plugs	9 Nos
11	Punch-down tool		6 Nos
12	Small mirror	15cm*20cm	2Nos/batch
13	Small dust brush (Anti-Static Brush)	5.6 x 2.5 x 0.3cm	4 Nos
14	Small flashlight		4 Nos
15	Parts organizer	20 DRAWER or high	1Nos/batch
16	Antistatic Wrist Strap		10 Nos
17	Soldering gun(desoldering pump)		4 Nos

18	Soldering irons	10w & 25 w	15 each
19	Screw Driver Set		9 Nos
20	Straight-head screwdriver, large & small	75mm & 150 mm	5 each
21	Star-head screwdriver, large and small	75mm & 150 mm	5 each
22	Screw Driver Heavy Duty	200 Mm & 300 Mm	5 each
23	Tweezers or part retriever		5 Nos
24	Bread board		15 Nos
25	Magnifying Lens		3 Nos

#### **Part D - CONSUMEBLES**

SL NO	NAME	SPECIFICATION	QUANTITY (per batch)
1	Electrolytic capacitors	1uf,10uf,100uf,1000uf	50 each
2	Transformer	(9-0-9V,12-0-12V)	5nos each
3	Diode	1N4007	50nos
4	Resistors (1/4W)	10 different values	50each
5	Earth Wire	18 Swg Copper	1coil
6	Earth road	GI PIPE/copper	1no
7	electric wire	1 sq mm,15A	90 m
8	UTP Cat. 5 cables		20m
9	UTP Cat. 6 cables		20m
10	RJ 45 modular jack		75nos
11	RJ45 Connector		100nos
12	Heat Sink Compound	100 gm	6 Nos
13	soldering flux	100gm	5 Nos
14	solder	100gm	6 Nos

#### **Part E - OTHER ACCESSORIES**

SL NO	NAME	SPECIFICATION	QUANTITY
1	T-square		2Nos
2	Gloves (rubber)		30 Nos
3	Goggles		15 Nos
4	Protractor		2 Nos
5	Steel rule	300mm	10 Nos

6	Masks		30 Nos
7	Learning Manuals		5 Nos
8	Work Instruction		5 Nos
9	Board marker		5 Nos
10	White board		1 Nos per batch
11	Schematic diagrams		10 Nos
12	Charts (computer hardware)		3 Nos
13	Block diagrams (computer hardware)		3 Nos
14	Layout plans		1each
15	Location Plans		1 Nos
16	Instrumentation diagrams		1 Nos
17	Loop diagrams		1 Nos
18	System Control diagrams		1 Nos
19	Drawing boards		5 Nos
20	Rulers		5 Nos
21	First Aid Kit		1 Nos per batch

**Part E – FURNITURE**

1	Almirah	78"x36"x18" or less	1 Nos per batch
2	Computer Table	72" x 30" x 29" or less steel with wooden top or wooden	15 Nos per batch

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