GOVERNMENT COLLEGE OF TECHNOLOGY
MAIN KOHAT ROAD, PESHAWAR
Phone: 091-9212739
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ADVERTISMENT/ TENDER NOTICE FOR PURCHASE OF TRAINING MATERIAL 2026-27

Government College of Technology, Peshawar is the Largest College of Technology of the province for imparting quality Technical Education in Various fields of Engineering. The College invites sealed bids under National Competitive Bidding from Supply for the purchase of Training Material for the Session 2026-27 in the following Schemes/Packages, detail of items/packages scheme wise as per fund available at 2ns shift/Morning Shift and Operational fund are available at KP-TEVTA website: -

S. No	Name of Scheme	Date & Time of Submission	Date & Time of Opening
1	**DAE Civil, Electrical, Electronics, Mechanical, Chemical, Auto & Diesel Technology & Related Studies (Physics & Chemistry)**	16th November 2026, 2.00 PM	16th November 2026, 2.30 PM
2	**BS Engineering (Civil, Electrical, Mechanical)**		

TERMS & CONDITIONS

1) The Items must have Minimum Specification and acceptable to the Technical Experts.
2) Each Bidder should apply to each Package separately. However, a Bidder can bid for individual items/ quantities of an item in the Schedule of requirement of each package mentioned on the BSD, having specialty /experience in the quoted items.
3) Technical and Financial bids invited from reputed Manufacturers/Importers/Firms under single stage, two envelope procedure shall reach to the Office of Store Purchase Officer, Govt. College of Technology, Peshawar through registered mail or Courier Services on or before above mentioned dates against each scheme and time. The Technical bids shall be opened on the same day by the Procurement committee of the College in the presence of bidders/ Representatives, who want to attend at above mentioned time. Bid submitted after due date & time shall not be entertained.
4) Sales tax, Income Tax and any other taxes / Duties Levied against the item shall be deducted at prescribed rate as per Government Policy.
5) Bidders are also required to submit the relevant detail of technical proposal and required documents in soft copies on a USB Drive, duly labelled by a permanent marker with the name of bidder/ firm
6) The firms/supplier must be registered with the Sales Tax and Income Tax Department. Photocopy of valid registration shall be attached with the bid documents.
7) **Two (2%) bid security of the total bid cost in shape of call deposit** Receipt in favour of Principal GCT Peshawar must be sealed in financial proposal. The technical Proposal shall have affidavit stating that 2% bid security is enclosed in the financial proposal without stating the figures. Otherwise technical bid will be considered non-responsive.
8) The Supplier shall write in bold & legible letters "Tender/ Name of the Scheme and Package" on the upper right corner of the envelopes and for each Package detail on the Left Corner of envelope for which the supplier applied otherwise tender will not be entertained. The detailed terms & condition and Bid Solicitation documents, can be obtained from Store Purchase Office in the college on any working day (Monday to Friday 9.00 AM to 2.00 PM) or can be downloaded from the KP-TEVTA, official website www.kptevta.gov.pk. Or www.gctpesh.edu.pk
9) The rates shall be on FOR basis and store must be delivered to the specified consignee's end as mentioned in BSD's. In case of failure the earnest money shall be forfeited in favor of Principal GCT Peshawar and the purchase order will be issued to the second lowest bidder
10) The Competent Authority reserves the right to reject any or all the bids as per provisions contained in Rule 47 of KPPRA Procurement Rules 2014. Tender process will be as per KPPRA rules.
11) The Tender Notice is available at KPPRA's & KP-TEVTA and College website as well.
12) **The tender documents Registration fee @ Rs.2000/- (Non-Refundable) will be charged for each Package in cash/through Bank of Khyber (Kohat Road Branch) deposit slip in favor of Principal GCT Peshawar (Operational) Account No. 3006560457 and will be submitted along with the application for documents registration for each package separately on firm's letter head.**
13) The successful Bidder will deposit 10% as performance Guarantee / Earnest Money including the 2% Bid Security before the award of purchase order. It will be released after successful supply of the store or Completion of warranty period in case of item for which warranty period demanded.
14) The Bids shall be **Computer Typed** and Hand written bids will not be entertained
15) The supplier will submit the tender documents along with terms and condition issued by the Principal GCT Peshawar dully signed by the authorized personnel and company seal; otherwise the bid will not be accepted.
16) The bidder will be responsible for standard warranty given by the manufacturer where applicable.

(Engr. Syed Qasim Shah)
PRINCIPAL

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GOVERNMENT COLLEGE OF TECHNOLOGY, PESHAWAR

DEPARTMENT OF DAE (ELECTRICAL)

TRAINING MATERIAL DEMAND 2026-27 FOR CBT LEVEL 5 CURRICULUM

Wiring Lab

S. No	ITEMS / Material	Specifications / Details	Quantity type	No
1	Insulation Tape	PVC Flame Retardant, Professional Grade (Osaka/Nitto), 20x Red, 20x Blue, 20x Black, 20x Yellow	Nos	80 Nos
2	PVC Casing & Capping (Duck Patty)	¾" Width, Premium Virgin PVC, Flame Retardant, Length: 10 Feet per piece (Popular/Adamjee)	ft	200 Feet
3	PVC Casing & Capping (Duck Patty)	1" Width, Premium Virgin PVC, Flame Retardant, Length: 10 Feet per piece (Popular/Adamjee)		200 Feet
4	PVC Casing & Capping (Duck Patty)	1.5" Width, Premium Virgin PVC, Flame Retardant, Length: 10 Feet per piece (Popular/Adamjee)		200 Feet
5	PVC Casing & Capping (Duck Patty)	2" Width, Premium Virgin PVC, Flame Retardant, Length: 10 Feet per piece (Popular/Adamjee)		200 Feet
6	Single Core P.V.C. Cable	3/0.029 (1.5mm²) 100% Pure Copper, 450/750V Grade (Pak Popular/Dawn Cables) - Red Colour	Coils	5 Coils
7	Single Core P.V.C. Cable	3/0.029 (1.5mm²) 100% Pure Copper, 450/750V Grade (Pak Popular/Dawn Cables) - Black Colour		5 Coils
8	Single Core P.V.C. Cable	3/0.029 (1.5mm²) 100% Pure Copper, 450/750V Grade (Pak Popular/Dawn Cables) - Green/Yellow		3 Coils
9	Single Core P.V.C. Cable	7/0.029 (2.5mm²) 100% Pure Copper, 450/750V Grade (Pak Popular/Dawn Cables) - Red Colour		4 Coils
10	Single Core P.V.C. Cable	7/0.029 (2.5mm²) 100% Pure Copper, 450/750V Grade (Pak Popular/Dawn Cables) - Black Colour		4 Coils
11	Two Core Flexible PVC Cable	40/0.0076 Twin Twisted Light Duty Copper Conductor, 300/500V (Pak Popular/Dawn)		4 Coils
12	Two Pin Socket (Plug)	Piano Type, 10A, 250V AC, High Grade Polycarbonate (HERO/Good Sons)	Nos	75 Nos
13	Two Pin Shoe	Piano fitting, 10A, 250V AC, High Grade Polycarbonate (HERO/Good Sons)		75 Nos
14	Single Way Switch	Piano Type, 10A, 250V AC, Silver Alloy Contacts (HERO/Good Sons)		150 Nos
15	Intermediate Switch (4-Terminal)	Cross-over switch, Piano Type, 10A, 250V AC (HERO/Good Sons)		30 Nos
16	Light Indicator	Piano Type, 250V AC Long-Life Neon or LED Red indicator Element (HERO/Good Sons)		25 Nos
17	Bulb Holder	Piano Type, Threaded Base Screw Type (E27), Brass Terminals, 250V 4A rated (HERO/Good Sons)		30 Nos
18	Bulb Holder	Piano Type, Bayonet Pin Type (B22), Brass Terminals, 250V 4A rated (HERO/Good Sons)		30 Nos
19	Incandescent Lamp 60W	60 Watt, 220-240V AC, Bayonet Pin Base (B22), Clear Glass Filament		12 Nos
20	Incandescent Lamp 100W	100 Watt, 220-240V AC, Bayonet Pin Base (B22), Clear Glass Filament		12 Nos
21	Incandescent Lamp 200W	200 Watt, 220-240V AC, Bayonet Pin Base (B22), Clear Glass Filament		12 Nos
22	LED Bulb 10 Watts	10 Watt, 220V AC, Daylight (6500K), Bayonet Pin Base B22 (Osaka/Sania/Philips)		25 Nos
23	LED Bulb 10 Watts	10 Watt, 220V AC, Daylight (6500K), Screw Base E27 (Osaka/Sania/Philips)		25 Nos
24	LED Tube light 40 Watts	40 Watt Linear T8 Integrated LED Batten Fixture, Cool Daylight, 4 Feet (Osaka/Philips)		15 Nos
25	Push Button Switch	Piano Type, Normally Open (NO) Momentary Contact, 5A, 250V AC (HERO/Good Sons)		60 Nos
26	Wooden Screw (Flat Head Philips)	Assorted Packets: 1" (3 Pkts), 1.5" (3 Pkts), 2" (4 Pkts), 3" (4 Pkts) - (Adamjee/Sodan)		14 Pkts
27	Concrete Steel Nails	Gypsum/Concrete Impact Nails 1" (2KG), 1.5" (2KG), 2" (2KG), 3" (2KG) (Taiwan Grade)	Kg	8 KG
28	PVC Plastic Gang Boards	High impact Surface Box (Madina): 4x4 1-Hole (30), 4x4 2-Hole (30), 4x4 3-Hole (30)		90 Nos
29	Rewireable Fuse Panel Unit	Surface Mount Piano Style Carrier, 16A 250V AC, Verified Porcelain Body (HERO/Good Sons)		30 Nos
30	LED Indicators (RED, YELLOW, GREEN)	Voltage and current displaying indicators (10 Nos Each)		30 Nos
31	Electric Bell	Buzzer Type, Solenoid Operated, Striker Mechanism, 220V AC, Surface Mount (HERO/Good Sons)		15 Nos
32	Insulation Tape	PVC Flame Retardant, Professional Grade (Osaka/Nitto), Assorted Colors	Pkts	100 Packets
33	PVC Casing & Capping (Duck Patty)	¾", 1", 1.5" & 2" Width, Premium Virgin PVC, Flame Retardant (10ft/12ft lengths)		300 Lengths
34	Single Core P.V.C. Cable	3/0.029 (1.5mm²) 100% Pure Copper, 450/750V Grade (Red, Black, Green)	Coils	20 Coils
35	Single Core P.V.C. Cable	7/0.029 (2.5mm²) 100% Pure Copper, 450/750V Grade (Red, Black, Green)		20 Coils
36	Flexible PVC Cable (1/44 & Twin)	1/44 Single Core and Twin Flexible Copper Connecting Wire		20 Coils
37	4-Core PVC Cable	4-Core 3/0.029 & 4-Core 1/44 Copper Armored/Unarmored Flexible Cable		20 Coils
38	Distribution Box	Heavy Duty PVC/Metallic Flush Mount Surface Distribution Box (6"x12")		40 Nos
39	Circuit Breakers (MCB)	Single Pole MCBs: 5A, 10A, 20A, 32A (25 Nos each rating)		100 Nos
40	Circuit Breakers (MCB)	Double Pole MCBs: 5A, 10A, 20A, 32A (25 Nos each rating)		100 Nos
41	Bus Bar for Circuit Breakers	Copper Comb Busbar for MCB Distribution Panels (1-Phase / 3-Phase)		50 Nos
42	Magnetic Contactors	220V Coil AC Contactor: 16A & 40A ratings (50 Nos each) for industrial control drills		100 Nos

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GOVERNMENT COLLEGE OF TECHNOLOGY, PESHAWAR

DEPARTMENT OF DAE (ELECTRICAL)

TRAINING MATERIAL DEMAND 2026-27 FOR CBT LEVEL 5 CURRICULUM

S. No	ITEMS / Material	Specifications / Details	Quantity type	No
43	Thermal Overload Relays	Adjustable Bimetallic Overload Relays, 20A & 50A ranges (50 Nos each)		100 Nos
44	Analog/Digital Timers	220V AC Delay Timers complete with 8-Pin Mounting Base		25 Nos
45	Piano Switches & Sockets	Single Pole 15A Switches (100 Nos), 3-Pin Power Plugs/Sockets 30A (100 Nos)		200 Nos
46	Impulse Switches	Latching / Impulse Relays for remote lighting control practice		50 Nos

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S. No	ITEMS / Material	Specifications / Details	Quantity type	No
47	Lamp Holders & Bulbs	Screw (E27) & Pin (B22) Holders (200 each), 100W/200W Filament & LED Lamps		400 Nos
48	Junction Boxes & Conduit Bends	PVC Junction Boxes (½" & ¾"), Elbow Bends, Bushings, and Saddles	Dozen	60 Dozen
49	Grounding Set Materials	Pure Copper Ground Rods (10 Nos), Copper Plates (5 Nos), Ground Inspection Pits (10 Nos)		25 Sets
50	Bare Copper & Grounding Wire	Heavy Gauge Bare Copper Wire & Insulating Grounding Cable	Rolls/50m	2 Rolls / 50m
51	Cable Lugs, Thimbles & Connectors	Mechanical Cable Lugs, Compression Thimbles, Wago Strip Connectors		30 Dozen
52	Fasteners & Mounting Hardware	Wooden Screws (½", 1", 1.5", 2" - 30 boxes each), Concrete Steel Nails, Wooden Plugs	Boxes	120 Boxes
53	Cable Ties & Pipe Clamps	Heavy Duty Nylon Cable Ties (25 Pkts) & Steel/PVC Conduit Clamps		125 Packets
54	Estimation & Drafting Stationery	Estimate Forms (200 Nos), Pricing Sheets (100 Nos), Writing Pads, Pencils & Erasers	Forms	300 Forms
55	Estimation & Costing Worksheets	Standard Format Cost Estimation Sheets & Pricing Calculation Pads		200 Forms
56	Distribution Box (Surface / Flush Mount)	Heavy Duty PVC / Sheet Metal DB for MCBs		20 Nos
57	Comb Busbar for Circuit Breakers	1-Phase / 3-Phase Copper Busbar for DB Internal Wiring		20 Nos
58	Magnetic Contactor	Ratings for Motor Control Drills		12 Nos Each
59	Thermal Overload Relay	Adjustable Bimetallic Overload Relay		12 Nos Each
60	Impulse / Latching Switch	AC Latching Relay for Multi-Location Lighting		12 Nos
61	3-Pin Heavy Duty Power Plug & Socket Set	Industrial Power Plug and Surface Outlet	Sets	12 Sets
62	PVC Junction Boxes & Conduit Accessories	PVC Junction Boxes, Bends, Bushings, Saddles		10 Dozen Each
63	Earthing / Grounding Electrode Kit	Pure Copper Ground Rods with Earth Inspection Pit		06 Sets
64	Bare Copper Wire / Grounding Strip	Heavy Gauge Bare Copper Wire for Earth Grid Wiring		02 Coils
65	Cost Estimation Forms & Pricing Sheets	Printed Estimation Worksheets & Technical Drafting Pads	Sheets	100 Sheets Each
66	Estimation & Costing Worksheets	Standard Format Cost Estimation Sheets & Pricing Calculation Pads		200 Forms
67	Magnetic Contactor	220V AC Coil, 16A & 40A Heavy Duty (for motor control & starter practical's)		24 Nos EACH
68	Thermal Overload Relay	Adjustable Bimetallic Overload Relay (20A & 50A range)		24 Nos
69	Impulse / Latching Switch	220V AC Remote Latching Control Switch for lighting automation		24 Nos
70	Power Plug & Socket 3-Pin	30A Heavy Duty Surface/Flush Mounting Type		24 Nos
71	Distribution Box (Flush/Surface)	6" x 12" Heavy Duty Metallic / Flame Retardant PVC DB Box		12 Nos
72	MCB Comb Busbar	Single-Phase & Three-Phase Copper Comb Busbar for DBs		24 Nos
73	PVC Conduit Junction Boxes & Bends	½" & ¾" PVC Junction Boxes, Elbow Bends, Bushings & Saddles		10 Dozen
74	Pure Copper Grounding Rod	5/8" Diameter, 6–8 Feet Length complete with Brass Clamp		06 Nos
75	Ground Inspection Chamber / Pit	Heavy Duty Pre-cast Concrete / PVC Pit Cover for Earth Pit Testing		06 Nos
76	Bare Copper Grounding Wire & Plate	8 SWG Bare Copper Wire (1 Coil) & Copper Plate (1ft x 1ft)		02 Sets
77	Power Plug & Socket 3-Pin	30A Heavy Duty Surface/Flush Mounting Type		24 Nos
78	Distribution Box (Flush/Surface)	6" x 12" Heavy Duty Metallic / Flame Retardant PVC DB Box		12 Nos
79	MCB Comb Busbar	Single-Phase & Three-Phase Copper Comb Busbar for DBs		24 Nos
80	PVC Conduit Junction Boxes & Bends	½" & ¾" PVC Junction Boxes, Elbow Bends, Bushings & Saddles		10 Dozen
81	Power Plug & Socket 3-Pin	30A Heavy Duty Surface/Flush Mounting Type		24 Nos
82	Distribution Box (Flush/Surface)	6" x 12" Heavy Duty Metallic / Flame Retardant PVC DB Box		12 Nos
83	MCB Comb Busbar	Single-Phase & Three-Phase Copper Comb Busbar for DBs		24 Nos
84	PVC Conduit Junction Boxes & Bends	½" & ¾" PVC Junction Boxes, Elbow Bends, Bushings & Saddles		10 Dozen
85	Estimation & Costing Worksheets	Standard Format Cost Estimation Sheets & Pricing Calculation Pads		200 Forms

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GOVERNMENT COLLEGE OF TECHNOLOGY, PESHAWAR

DEPARTMENT OF DAE (ELECTRICAL)

TRAINING MATERIAL DEMAND 2026-27 FOR CBT LEVEL 5 CURRICULUM

S. No	ITEMS / Material	Specifications / Details	Quantity type	No
	Machines Lab			
86	Flexible Connecting Wire Roll	Multi-strand flexible copper hook-up wire, 1.5mm² internal patching. Red, Black, Green		3 Coils
87	Carbon Brushes Assorted Pack	Replacement carbon brushes for generic fractional-horsepower slip-ring/commutator motors		10 Packs
88	Din Rail Mounting Channel	Slotted Aluminum DIN Rail track for control terminal mounting blocks, 1-Meter lengths		10 Lengths
89	Motor Terminal Block Connectors	3-Phase Porcelain/Bakelite 6-Terminal link distribution blocks for terminal boxes		12 Nos
90	Overhead Conductors (ACSR & AAAC)	Standard ACSR (Dog/Rabbit) & Bare AAAC Conductors for jointing drills	Meters	60 Meters
91	High Voltage Cable Splicing Kit	Heat Shrink Splicing Sleeves, Termination Boots & Accessories		12 Kits
92	Battery Electrolyte & Distilled Water	Battery Grade Lead-Acid Electrolyte (10L) & Distilled Water (10L)		04 Sets
93	Single-Phase KWh Energy Meter	220V, 10(40)A Analog / Digital KWh Energy Meter for load testing		06 Nos
94	Power Factor Capacitor Units	Low-Voltage AC Capacitor Units (400V, 2.5 kVAR) for PF correction		06 Nos
95	Electrical Contact Cleaner Spray & Grease	Residue-free Contact Cleaner Spray (400ml) & Bearing Lubricating Grease Tins		12 Cans/Tins
96	Cable Splicing & Termination Kit	High/Medium Voltage Jointing Kits, Heat Shrink Boots & Insulators		06 Kits
	Power Lab			
97	Solid State Relay (SSR)	Industrial Programmable Solid State Relay, Input: 3-32V DC, Output: 24-480V AC, 25A/40A, 3-Phase		6 Nos
98	Single Mode Fiber Optic Cable	9/125um Core/Cladding Yellow Single Mode Patch Cable, Simplex ST-to-SC connectors, 3m		12 Nos
99	Fiber Optic Connector Components	ST, SC, and LC Fiber Connectors, Crimp Sleeves & Dust Caps Pack		50 Sets
100	Industrial Heat Shrink Sleeve	Polyolefin Heat Shrink Tubing Assortment (1.5mm to 10mm, Flame Retardant 600V)		50 Pkts/Roll
101	Power & Overhead Conductors	ACSR (Dog/Rabbit), AAAC, and Bare Copper Conductors (Standard Coils/Drums or 6m cut length per type)		18 Meters
102	High/Medium Voltage Power Cables	Multi-core Insulated Power Cable for distribution simulation		20 Meters
103	Splicing & Termination Kits	High Voltage Cable Splicing Kits, Heat Shrink Jointing & Termination Boots for XLPE Cables		12 Kits
104	Fuses & Fuse Links	Glass, Ceramic, Automotive, and High-Rupturing Capacity (HRC) Fuse Links (15 Nos Each)		60 Pcs
105	Battery Maintenance Supplies	Lead-Acid Battery Electrolyte Acid (10 Ltr) & Distilled Water (10 Bottles)		10 Dozen
106	Carbon Brushes & Brush Holders	Replacement Carbon Brushes for DC Motors and Slip-Ring Generators		20 Units
107	Connecting Leads & Bridging Plugs	4mm Stackable Banana Patch Cords & Bridging Plugs for power panels		4 Dozen
108	Fixed/Variable Power Resistors	Wirewound Ceramic Fixed Power Resistors (25 W - 100 W, Assorted 10 ohm to 01 Kilo Ohms,) & Sliding Tubular Rheostats (0-100 Ohms, 3 Amp to 5 Amp)		200 Nos
109	Single-Phase Energy Meters	220V, 10(40)A, Digital Single-Phase KWh Energy Meters for load testing		06 Nos
110	Capacitors & Capacitor Bank Units	AC Run Capacitors (4.7 uF, 10 uF, 100 uF) & Low-Voltage Power Factor Banks		12 Nos Each
111	Electrical Contact Cleaner & Greases	Residue-free Electrical Contact Cleaner Spray (400ml Cans) & Industrial Bearing Grease Tins		12 Cans/Tins
112	Bread Board	Solderless Prototyping Breadboard, 830 Tie-Points, Dual Terminal Strips		30 Nos
	INST.& ELECTRONICS LAB			
113	Jumper Wire / Jumpers Pack	Standard Full Size, 830 Tie-Points, Dual Alphanumeric Distribution Strips, ABS Plastic		25 Nos
114	Resistors Pack (Power Ceramic)	Axial Wirewound 10W Power Resistors: 500Ω, 1kΩ, 2kΩ, 3kΩ, 5kΩ, 10kΩ (12 Nos each value)		72 Nos
115	Inductors Pack (Choke Coils)	High-Q Ferrite Core & Toroidal Power Choke Coils: Assorted values (50 micro Henry to 500 milli Henry, 0.5 to Ampere, Breadboard/PCB compatible		72 Nos
116	Capacitors Pack (Electrolytic/Film)	Ferrite Core Variable/Fixed Inductors: 50mH, 100mH, 250mH, 500mH (12 Nos each value)		48 Nos
117	LEDs (Standard 5mm)	Radial Lead: 1uF/50V, 2.2uF/50V (Electrolytic); 500pF, 1000pF (Ceramic Disc) (24 of each)		96 Nos
118	Sensor Component Kit	Diffused Low-Current Indicator LEDs: 25x Deep Red, 25x Emerald Green, 25x Bright Yellow		75 Nos
119	Switching Diodes	Individual Transducer ICs: PIR Motion, DHT11 Humidity, Inductive Proximity, Ultrasonic, MQ2 Gas		12 Kits
120	Zener Diodes	1A, Forward Voltage Current Protection Diodes: 1N4001 (12V), 1N4004 (18V), 1N4007 (24V)		72 Nos
121	Power Diodes (Stud Mount)	500mW Voltage Regulator Diodes: 12V Zener, 18V Zener, 24V Zener (24 Nos each)		72 Nos
122	Operational Amplifier ICs	High Current Blocking Rectifier: 10A / 50V, 10A / 100V, 10A / 150V (12 Nos each rating)		36 Nos
123	Transistor (BJT) Low Power	LM741 / UA741 General Purpose Op-Amp 8-Pin DIP, include Pin Functional Datasheets		36 Nos
124	Transistor (BJT) Medium Power	Small Signal Amplifiers: 2N3906 (PNP Complementary), 2N3904 (NPN Switching) (24 each)		48 Nos

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S. No	ITEMS / Material	Specifications / Details	Quantity Req	No

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GOVERNMENT COLLEGE OF TECHNOLOGY, PESHAWAR

DEPARTMENT OF DAE (ELECTRICAL)

TRAINING MATERIAL DEMAND 2026-27 FOR CBT LEVEL 5 CURRICULUM

S. No	ITEMS / Material	Specifications / Details	Quantity type	No
128	TRIAC (Thyristor AC Switch)	Bidirectional Trigger Diode: DB3, DO-35 Glass axial package, VBO 32V (Low/Med/High series)		30 Nos
129	Logic Gate Integrated Circuits	Bidirectional Triac TO-220: BT136 (Low), BTA16-600B (Medium), BTA41-600B (High Power)		45 Nos
130	Combinational Circuit ICs	74LS TTL Series DIP: 74LS08 (AND), 74LS32 (OR), 74LS04 (NOT), 74LS00 (NAND), 74LS02 (NOR)		120 Nos
131	Sequential Counters & MUX	Logic Blocks: 74LS83 (4-Bit Adder), SN74LS14 (Schmitt Trigger), LM555CN (Precision Timer)		72 Nos
132	Converters & Drivers	Logic Switching: 74HC93 (Ripple Counter), 74HC191 (Sync Counter), 74HC151 (8:1 Multiplexer)		72 Nos
133	Light Dependent Resistor (LDR)	Drivers: 74LS42 (BCD-to-Decimal), 74LS47 (7-Segment Driver), LM7805 (+5V Linear Regulator)		72 Nos
134	Tactile Micro Push Buttons	GL5506 Photoresistor, Max 50V DC, Light Resistance 2K-5KΩ, Dark 0.2MΩ, 100mW		24 Nos
135	Paper Sticking Masking Tape	4-Pin SMD/DIP Tactile Switch, 6x6x5mm size for logic panel circuit integration		48 Nos
136	Heavy Duty Clear Scotch Tape	1 Inch (24mm) Width, Clean-Release Adhesive Paper tape for breadboard labelling, General Paper Type		12 Nos
137	Large Masking Tape Roll	1" Width, Transparent Cellulose Tape for schematic sheet board drawings		6 Nos
138	Cat6 Network Cable Roll	2" (48mm) Width Protective Paper Tape for drafting boards and circuit mounting (heavy duty painter masking tape), UTP Cat6 Cable Roll (100m) & RJ45 Modular Plugs (100 Pcs/Box)		6 Nos
139	Coaxial Cable Roll & BNC Connectors	UTP Cat 6, 4-Pair Pure Copper Cable		01 Roll
140	RJ45 Modular Plugs & Protection Boots	RG6 Coaxial Cable Roll with BNC Male Connectors		01 Roll / 50 BNCs
141	Fiber Optic Splicing Sleeves & Cleaning Kit	Fusion Splice Protection Sleeves (60mm, 100 Pcs), IPA Cleaning Wipes, Strippers, Cleaver & Prep Consumables		06 sets
142	DE soldering Braid / Solder Wick	2.5mm High Conductivity Copper Solder Wick Spools		24 Spools
143	Cat6 Ethernet Cable & RJ45 Connectors	2.5 mm, Copper DE soldering Braid Reels		12 Reels
144	Wireless Smart Modules (HC-05 & ESP8266)	Bluetooth HC-05 Transceiver & Wi-Fi ESP8266 NodeMCU Modules		12 Each
145	Fiber Optic Splicing Sleeves & Prep Kit	Fusion Splice Protection Sleeves (60mm, 100 Pcs), IPA Cleaning Wipes, Strippers, Cleaver & Prep Consumables		06 Sets
146	Cat6 Ethernet Cable & RJ45 Connectors	UTP Cat 6, 4-Pair Pure Copper Cable Roll (100m) + RJ45 Modular Plugs (100 Pcs/Box)		01 Roll + 1 Box
147	Discrete Semiconductors	Diodes (1N4007), Zeners, BJT (NPN/PNP), FETs, MOSFETs, UJTs, SCRs (100 Nos Each)		800 Nos
148	Logic Gate ICs (7400 Series)	TTL Logic Gates: 7408 (AND), 7432 (OR), 7404 (NOT), 7400 (NAND), 7402 (NOR), 7486 (XOR)		800 Nos
149	Sequential & Combinational ICs	Flip-Flops (7474/74112), Counters (7490), MUX/DEMUX (74153), Encoders (74147)		800 Nos
150	Linear ICs & Regulators	Op-Amps (LM741), Timers (LM555), Voltage Regulators (7805, 7905, LM317)		300 Nos
151	Breadboards & Jumper Wires	830-Point Prototyping Breadboards & Multi-Color Flexible DuPont Jumpers		50 Sets
152	Telecom Cables	Coaxial Cables (10m), Single/Multi-Mode Fiber Optic Cables (20m), Ethernet Cat6 (20m)		50 Meters
153	Telecom Connectors	RJ45 Modular Plugs, BNC Connectors, Fiber Optic SC/LC Connectors		150 Nos
154	Fiber Splicing & Termination	Fusion Splicing Sleeves, Heat Shrink Tubes, and Fiber Optic Cleaning Kits		60 Sets
155	Communication & Sensor Modules	Wireless Bluetooth (HC-05), Wi-Fi (ESP8266), Proximity, Photoelectric & Temp Sensors		30 Nos
156	Patch Panels & Patch Cords	Cat6 Ethernet Patch Panels (10 Nos) & Molded Network Patch Cords		
157	Cat6 Ethernet Cable & RJ45 Connectors	Cable & RJ45 Connectors UTP Cat 6, 4-Pair Pure Copper Cable Roll (100m) & RJ45 Modular Plugs (100 Pcs)		01 Roll + 1 Box
158	Fiber Optic Splicing Sleeves & Prep Kit	Fusion Splice Protection Sleeves (60mm, 100 Pcs), IPA Cleaning Wipes, Strippers & Cleaver		06 sets
159	Soldering Wire Rosin Core	60/40 Sn/Pb Alloy, 1.0mm Diameter, 250g Spool, high fluid flow (FUJI/Equivalent)		12 Nos
	REPAIR & MAINTENACE LAB			
160	Soldering Paste / Flux	Non-corrosive rosin chemical paste container (50g) for circuit DE soldering maintenance		12 Nos
161	Copper Cable Thimbles Assorted	Pre-insulated PVC Sleeved Lugs (U, O & Pin Types): 1.5mm², 2.5mm², 4.0mm² (200 each)		600 Nos
162	Super Enameled Copper Wire	30 SWG High Temperature Synthetic Resin Enameled Wire for transformer core windings		5 KG
163	Insulating Leatheroid Paper	Presspan / Leatheroid Insulating paper sheet (0.2mm thickness) for winding slot insulation		5 Rolls
164	Red Insulating Varnish	Fast Air-Drying Class H (180 degree C) Synthetic Resin Insulating Varnish for motor winding & transformer insulation protection, oil & moisture resistant		5 Cans / Tins
165	Industrial Safety Helmet (Yellow)	High-Density Polyethylene (HDPE), Non-Conductive Class E, Vented Shell for students		50 Nos
166	White Supervisor Safety Helmet	HDPE Class E, Reinforced Crown, White (for Instructors)		06 Nos
167	Dielectric Electrician Gloves	Class 0 Electrical Insulated Rubber Gloves, Working Voltage 1000V AC, ASTM D120		50 Pairs
168	Heavy Duty Fall Safety Belt	Full Body Fall Arrest Safety Harness with Double Lanyard Snap Hooks		12 Sets

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GOVERNMENT COLLEGE OF TECHNOLOGY, PESHAWAR

DEPARTMENT OF DAE (ELECTRICAL)

TRAINING MATERIAL DEMAND 2026-27 FOR CBT LEVEL 5 CURRICULUM

S. No	ITEMS / Material	Specifications / Details	Quantity type	No
169	Insulated Electrician Boots	Professional Shockproof Composite Toe Rubber Sole Safety Shoes, Rated up to 11kV Isolation		50 Pairs
170	Super Enameled Copper Winding Wire	24 SWG & 30 SWG High Temperature Synthetic Resin Enameled Wire		20 KG
171	Insulating Leatheroid Paper & Varnish	Pressman / Leatheroid Insulating Paper (0.2mm) & Air-Drying Red Insulating Varnish		10 Sets
172	Soldering Consumables	Rosin Core 60/40 Solder Wire Reels, Soldering Flux Paste, DE soldering Braid / Wick		80 Units
173	Heat Shrink Tubing Assortment	Dual-Wall Adhesive & Standard Heat Shrink Tubes (Assorted Diameters)		30 Rolls

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MACHINE SHOP

S.No	Name of item with specifications	Unit type	Qty
1	MS Round Bar-Dia 1"	Kg	350
2	MS Round Bar-Dia 1"×1/2"	Kg	150
3	MS Round Bar-Dia 2"	Kg	100
4	MS Square Bar Dia 1/2"×1/2"	Kg	100
5	Angle Iron Size 1"×1/4"	Kg	100
6	High speed steel bit size 3/4"×6"	Dozen	6
7	Carbide Tip tool {V-Shape, Parting and	Dozen	1
8	cotton waste	Kg	200
9	Drill Bit Set Size 1-13 mm	Box	2
10	Drill Bit Set Size upto 1"	Box	2
11	Kerosine oil	Ltr	10
12	Mobil Oil { Shell Helix 20w-50)	Ltr	12
13	Soap (lux/pamolive/DEtol }	Nos	6
14	lemon Max Soap	Dozen	3
15	Towel	Nos	5
16	Steel Tape Size {3m}	Nos	6

METAL WORKSHOP

S.No	Name of item with specifications	Unit type	Qty
1	Flat MS 25×3mm Soft	Kg	100
2	Flat MS Strip 33×5mm Soft	Kg	50
3	Kerosine oil	ltr	10
4	lemon Max soap	dozen	2
5	twist drill bit (3mm)	Dozen	2
6	twist drill bit (5mm)	Dozen	2
7	twist drill bit (10mm)	Dozen	2
8	hand hacksaw blade (D/Edge 1×12")	Packets	4
9	sooter for cleaning (Best Quality)	dozen	2
10	Mobile oil	ltr	5
11	Hand Soap large (lux/pamolive/DEtol }	Dozen	1
12	Towel medium size	Nos	2

Welding Shop

S.No	Name of item with specifications	Unit type	Qty
1	MS Flat 1"×1/8"	Kg	200
2	MS Flat 1"×1/4"	Kg	200
3	Low Pressur Blow Pipe	Nos	2
4	Brass Filler Rod	Kg	10
5	Acetylene Drum	Nos	1
6	hand Hacksaw Frame	Dozen	1
7	Electrodes	Packets	5
8	Calcium Carbonate	Drum	1
9	Electrodes Holders	Nos	5

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Wood Workshop

S.No	Name of item with specifications	Unit type	Qty
1	Wood (kail Anandar)	Cft	400
2	Wood (Deodar)	Cft	30
3	Srew Size 2"	Packets	3
4	Srew Size 1/2"	Packets	3
5	Kerosine Oil	ltr	10
6	German Glue Whit	Kg	2
7	Jack Plane Zize 13"	Nos	10
8	Smoot Plane size 9"	Nos	10
9	Marking Guage size 10"	Nos	10
10	Mobile Oil	ltr	5
11	Grease	Kg	2
12	Kail size 1"×1/2"	Kg	1
13	Kail size 2"	Kg	1
14	Soap	Nos	6
15	Soap lemonn Max	Nos	6
16	Cotton Waste	Kg	10
17	Towel (Medium)	Nos	3

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Basic Electronics Lab

Sno	Item Name with Specifications	Unit Type	Qty
1	BC-547	No	50
2	Capacitor 1000 µF 16v-12v	No	50
3	Sand Paper	No	24
4	Schottky Diodes (Double Diode) MBR 20150 CT	No	6
5	Schottky Diodes (Double Diode) 20200CT	No	6
6	Insulated Gate Bipolar Transistor G30N60	No	6
7	Insulated Gate Bipolar Transistor IRGPCs04	No	6
8	Insulated Gate Bipolar Transistor FGA25N120	No	6
9	Battery Cell 9V	No	6
10	Battery Cell 1.5v	Packet	6
11	Multimeter probes	pairs of Red and Black	12
12	Power Diodes (Rectifier Diode)	No	6
13	Power Diodes (Fast Recovery Diode)	No	6
14	Power Diodes (Pin diodes)	No	6
15	Power Diodes (Zener Diodes)	No	6

Advanced Electronics Lab

S. No.	Name of Item with Specifications	Unit Type	Qty Required
1	Resistor assortments (¼W, ½W, 1W, various values; 12 pcs of each value)	Kit	5
2	Capacitor assortments (ceramic, electrolytic, film; 12 pcs of each type)	Kit	5
3	Inductor kits (small coils, ferrite core types; 12 pcs of each type)	Kit	5
4	Diodes (rectifier, Zener, LED; 12 pcs of each type)	Pack	5
5	Transistors (BJT, MOSFET, IGBT; 12 pcs of each type)	Pack	5
6	IC packs (Op-Amps, logic gates, timers, counters, ADC/DAC; 12 pcs of each IC)	Pack	5
7	Jumper wire sets (male-male, male-female, female-female; 12 pcs of each type)	Set	5
8	PCB blanks and etching kits (includes copper-clad boards, etching solution, resist pens/film, drill bits, cleaning pads, safety gloves & tray; 12 pcs of each consumable item)	Kit	5
9	Soldering wire (lead-free)	Roll	5
10	Flux, cleaning alcohol, desoldering braid/pumps (12 pcs of each item)	Set	5
11	Heat shrink tubing and insulation tape (12 pcs of each size/type)	Set	5
12	PIC/ARM microcontroller kits (12 pcs of each type)	Kit	5
13	Sensor kits (temperature, IR, ultrasonic, accelerometer; 12 pcs of each sensor)	Kit	5
14	Motor driver modules (L293D, H-bridge; 12 pcs of each type)	Module	5
15	LCD/OLED display modules (12 pcs of each type)	Unit	5
16	RF trainer kits (AM/FM modulation-demodulation; 12 pcs of each module)	Kit	5
17	Antenna trainer consumables (patch, dipole, Yagi; 12 pcs of each type)	Set	5
18	Optical fiber trainer consumables (connectors, splicing kits; 12 pcs of	Set	5
19	Small DC motors, stepper motors, servo motors (12 pcs of each motor type)	Unit	5 each
20	Power semiconductor kits (SCR, TRIAC, IGBT; 12 pcs of each device)	Kit	5
21	Solar panel mini-modules (for training experiments; 12 pcs of each type)	Unit	5
22	Battery packs (Li-ion, NiMH, lead-acid; 12 pcs of each type)	Pack	5
23	ESD wrist straps and mats (12 pcs of each type)	Set	5
24	Component storage boxes	Unit	5
25	First aid consumables (basic lab safety stock; 12 pcs of each item)	Kit	5
26	Digital IC Tester & Programmer Kit	Kit	5

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Digital Design Lab

S. No.	Name of Item with Specifications	Unit Type	Qty Required
1	Logic Gate ICs (AND, OR, NOT, NAND, NOR, XOR, XNOR; 12 pcs of each type)	Pack	5
2	Flip-Flop ICs (SR, JK, D, T; 12 pcs of each type)	Pack	5
3	Counter ICs (Decade, Binary, Up/Down; 12 pcs of each type)	Pack	5
4	Multiplexer/Demultiplexer ICs (4:1, 8:1, 16:1; 12 pcs of each type)	Pack	5
5	Encoder/Decoder ICs (BCD, 7-segment, priority; 12 pcs of each type)	Pack	5
6	Shift Register ICs (Serial-in/Serial-out, Parallel-in/Parallel-out; 12 pcs of each type)	Pack	5
7	Programmable Logic Devices (PAL, GAL, CPLD; 12 pcs of each type)	Kit	5
8	FPGA Development Boards (basic level; 12 pcs of each board type)	Board	5
9	Digital Trainer Kits (includes breadboards, clock pulse generator, switches, LEDs; 12 pcs of each component)	Kit	5
10	Seven-Segment Display Modules (common cathode & common anode; 12 pcs of each type)	Pack	5
11	LED Arrays (bar graph, matrix; 12 pcs of each type)	Pack	5
12	Clock Oscillator Modules (1 MHz, 10 MHz, 16 MHz; 12 pcs of each type)	Pack	5
13	Switches & Keypads (toggle, push button, matrix keypad; 12 pcs of each type)	Set	5
14	Logic Analyzer (basic student version; 12 probes per unit)	Unit	5
15	Simulation Software Licenses (Multisim, Proteus, Logisim; 12 licenses per software)	License	5
16	Component Storage Boxes (for ICs and modules)	Unit	5

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Power Electronics Lab

S. No.	Name of Item with Specifications	Unit Type	Qty Required
1	Power Diodes (rectifier, fast recovery, Schottky; 12 pcs of each type)	Pack	5
2	Thyristors (SCR, TRIAC, DIAC; 12 pcs of each type)	Pack	5
3	Power Transistors (MOSFET, IGBT, BJT; 12 pcs of each type)	Pack	5
4	Controlled Rectifier Kits (single-phase & three-phase; 12 pcs of each circuit type)	Kit	5
5	Inverter Kits (PWM, square wave, single-phase; 12 pcs of each type)	Kit	5
6	DC-DC Converter Kits (buck, boost, buck-boost; 12 pcs of each type)	Kit	5
7	AC Voltage Controller Kits (phase control, integral cycle; 12 pcs of each type)	Kit	5
8	Chopper Circuit Kits (step-up, step-down; 12 pcs of each type)	Kit	5
9	Gate Driver Modules (optocoupler-based, transformer-based; 12 pcs of each type)	Module	5
10	Heat Sinks (small, medium, large sizes; 12 pcs of each size)	Set	5
11	Power Inductors & Transformers (12 pcs of each type)	Set	5
12	Capacitor Banks (electrolytic, film; 12 pcs of each type)	Set	5
13	Protection Devices (fuses, circuit breakers, surge arrestors; 12 pcs of each type)	Set	5
14	Motor Control Kits (DC motor, stepper motor, induction motor; 12 pcs of each type)	Kit	5
15	Solar PV Training Modules (mini panels, charge controllers, inverters; 12 pcs of each type)	Kit	5
16	Battery Packs (Li-ion, NiMH, lead-acid; 12 pcs of each type)	Pack	5
17	Measurement Instruments (digital multimeter, clamp meter, wattmeter; 12 pcs of each type)	Set	5
18	Simulation Software Licenses (MATLAB/Simulink, PSIM, Multisim; 12 licenses each)	License	5
19	Component Storage Boxes (for power devices and modules)	Unit	5
20	Safety Gear (ESD kits, insulated gloves, goggles; 12 pcs of each type)	Set	5

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Drafting lab

Sr. No	Description of Items	Quantity Required
1	Pencil (My Pencil) HB,2H	500 each=500 No
2	Eraser (Best Quality) Duxe/Bahadar	400 No
3	Drawing Sheet 20" x 15" VRG 100Gram (Best Quality)	=4000 Nos
4	Sharpener	200 No
5	Scotch Tap 3*½ inch	06 Dozen
6	Sharpener Machine	03Nos

Construction Lab

Sr. No	Description of Items	Quantity Required
1	Port Land Cement	05 Bags
2	Sand	50cft
3	Distemper Off White (Master)	2 Gallon
4	Distemper White (Master)	1 Gallon
5	Paint Gray (Master)	020Gallon
6	Lime	10Kg

Plumbing Lab

S.No	Asset Name	Qty
1.	Mixture	06 no s
2.	Flushing Tank	06Nos
3	PVC Iron	05 Nos

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S. No	Item with Specificaiton	Unit type	qty
1	Deseil	Ltr	10
2	Petrol	Ltr	10
3	Kerosine Oil	Ltr	10
4	Brake Oil	Quarter	6
5	Steel Putty for Car	Quarter	6
6	Battery Acid (H2SO4) Bottle	Nos	2
7	Distilled Water Electrolites for Battery	Ltr	2
8	Car Paint (White)	Quarter	2
9	Car Paint (Silver)	Quarter	2
10	Car Paint (Gray)	Quarter	2
11	Car Paint (Red)	Quarter	2
12	Car Paint (Black)	Quarter	2
13	sand Paper W/P Different Size	Dozen	1
14	Sand Paper Zero Number	Dozen	1
15	Sand Paper W/P	Dozen	1
16	Hydrometer	Nos	2
17	Mobil Oil 20/50 SAE for Petrol Engine	Ltr	3
18	Mobil Oil 20/50 SAE for Deisel Engine	Galon	3
19	Carborator Cleaner Spray	Nos	2
20	Detergent Power	Kg	10
21	Turpentile Oil (Tarpeen)	Bottle	2
22	Paint Remover Spray	Nos	1
23	Silicon Tube (Medium)	Nos	2
24	Silicon Tube (small)	Nos	2
25	Soap	Nos	12
26	Paint Remover	Ltr	2
27	Car cleaning cloth for compound use	Dozen	1
28	painting brush 3"	Nos	2
29	painting brush 6"	Nos	2
30	Car Rubbing Compound (White)	Dozen	1
31	Battery 120Amp	Nos	1
32	Battery 60Amp	Nos	1
33	Cotton Cloth	Kg	2
34	Portable Charger	Nos	1
35	Digital Display 30 Amp	Nos	1
36	WD 40 Spray	Nos	2
37	LPG Gas Cylinder 4Kg Capacity	Nos	1
38	Flexible Pipe for Burner 4 Meter	Nos	1
39	Gas LPG 4 KG	Kg	4
40	Portable Welding Machine 250 Amp	Nos	1
41	MS Plate 1/2" wide and 1/4" thick	Kg	10
42	MS Round Bar 1" Dia	Kg	50
43	Welding Rods	Packets	1

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S. No	Item with Specificaiton	Unit type	qty
1	Deseil	Ltr	10
2	Petrol	Ltr	10
3	Kerosine Oil	Ltr	10
4	Battery Acid (H2SO4) Bottle	Nos	2
5	Distilled Water Electrolites for Battery	Ltr	2
6	Car Paint (White)	Quarter	2
7	Car Paint (Black)	Quarter	2
8	sand Paper W/P Different Size	Dozen	1
9	Sand Paper Zero Number	Dozen	1
10	Sand Paper W/P	Dozen	1
11	Hydrometer	Nos	2
12	Carborator Cleaner Spray	Nos	2
13	Detergent Power	Kg	10
14	Turpentile Oil (Tarpeen)	Bottle	2
15	Paint Remover Spray	Nos	1
16	Silicon Tube (Medium)	Nos	2
17	Silicon Tube (small)	Nos	2
18	Soap	Nos	12
19	Paint Remover	Ltr	2
20	Car cleaning cloth for compound use	Dozen	1
21	painting brush 3"	Nos	2
22	painting brush 6"	Nos	2
23	Car Rubbing Compound (White)	Dozen	1
24	Battery 60Amp	Nos	1
25	Cotton Cloth	Kg	2
26	Portable Charger	Nos	1
27	Digital Display 30 Amp	Nos	1
28	WD 40 Spray	Nos	2
29	LPG Gas Cylinder 4Kg Capacity	Nos	1
30	Flexible Pipe for Burner 4 Meter	Nos	1
31	Gas LPG 4 KG	Kg	4
32	Portable Welding Machine 250 Amp	Nos	1
33	MS Plate 1/2" wide and 1/4" thick	Kg	10
34	MS Round Bar 1" Dia	Kg	50
35	Welding Rods	Packets	1

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	Name of items with specification	Quantity
1	Digital Electric Meter	01 No;
2	Brix Hydrometer with thermometer (length 25 cm)	01 No:
3	Hydrometer jar	1
4	Manometer U Type) Range: 0 - 60	01 No:
5	Venturi meter	01 No:
6	Orifice meter	01 No:
7	Float Level	01 No:
8	Lab Gloves (For Students)	01 Pack (Large)
9	Dropper	6
10	Condenser	3
11	Lab Safety Goggles	6
12	Spatula	6
13	Sulphuric acid (H_2SO_4) 98 % Pure	05 Ltr
14	Hydrochloric acid (HCL) 37 % Pure	05 Ltr
15	$CuSo_4$ (Copper Sulphate)	02 Kg
16	Phenolphthalein	100 ml
17	Methyl Orange	100 gm
18	Potassium Chromate	100 gm
19	Ethanol 70 % Pure	05 Ltr
20	Petrol	02 Ltr
21	Deisel	02 Ltr
22	Starch	01 kg
23	Litmus solution	0.5 ltr
24	Spirit	05 ltr
25	Sodium Nitro Porocite	0.5 kg
26	Sodium Sulphide	0.5 kg
27	Silica acid	01 kg packet
28	Benzoic acid	01 ltr
29	Sodium Phosphate	01 kg
30	Zinc Pieces	0.5 kg
31	Potassium hydroxide	01 kg
32	Sodium hydroxide	01 kg
33	Nitric Acid	05 Ltr
34	Di chloro Phenol	01 ltr
35	Iodine	0.5 kg
36	Calium oxalate	0.5 kg
37	Lead Sulphate	0.5 kg
38	Borax	02 kg
39	Potassium nitrate (KNO_3^{-1})	0.5 kg
40	$Mgcl_2$	0.5 kg
41	pyridine	01 ltr
42	potassium iodide	0.5 kg
43	Digital Balance (wt. limit 5 kg @ 2 gm interval)	02 no;
44	UPS Battery (12V, 7Ah (maintenance free)	01 no.

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Chemistry Lab

Sr #	Apparatus	Specifications	Quantity
1.	Glass rod	8 inches	25 Nos.
2.	China dish	60 cc	25 Nos.
3.	Filter paper sheet	Spherical	25 Nos.
4.	Thermometer	(110^{o}C)	50 Nos.
5.	Capillary tubes	good quality	5 packs
6.	Universal pH paper (1-14)		14-Jan 20 packs
7.	Ostwald's viscometer	Pyrex	50 Nos.
8.	Pipette	10 mL	50 Nos.
9.	Specific gravity bottles	25 mL	25 Nos.
10.	Digital balance	0.1g – 500g	02 Nos.
11.	Pipette sucker	Good quality	25 Nos.
12.	Stalagmometer	Pyrex	25 Nos.
13.	Hoffman's voltammeter	Standard	05 Nos.
14.	Connecting wires		10 meters
15.	Battery 12 V DC /Adaptor	300 milliampere	05 Nos.
16.	Burette	50 mL	25 Nos.
17.	Wire gauze	Good quality	25 Nos.
18.	Dropper	Medium size	20 Nos.
19.	Steel spatula	Good quality	10 Nos.
20.	String	10 mm-20mm thick cotton made	100 meters

list of Chemicals

Sr #	Chemicals	Specifications	Unit Type	Qty
1.	Copper sulfate	Sigma/Aldrich/Merck	500 g	500
2.	Naphthalene	Sigma/Aldrich/Merck	500 g	500
3.	Nitric acid	Sigma/Aldrich/Merck	1 L	1
4.	Acetone	Sigma/Aldrich/Merck	2 L	2
5.	Benzene	Sigma/Aldrich/Merck	5 L	5
6.	Ethanol	Sigma/Aldrich/Merck	2.5 L	2.5
7.	Potassium nitrate	Sigma/Aldrich/Merck	500 g	500
8.	Stannous chloride	Sigma/Aldrich/Merck	500 g	500
9.	Phosphoric acid	Sigma/Aldrich/Merck	500 g	500
10.	Ammonium sulfate	Sigma/Aldrich/Merck	500 g	500
11.	Ammonium oxalate	Sigma/Aldrich/Merck	500 g	500
12.	Nessler;s reagent	Sigma/Aldrich/Merck	500 mL	501 mL
13.	Calcium chloride	Sigma/Aldrich/Merck	500 g	500 g
14.	Lead acetate	Sigma/Aldrich/Merck	500 g	500 g

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15.	Barium chloride	Sigma/Aldrich/Merck	500 g	500 g
16.	Ferric chloride	Sigma/Aldrich/Merck	500 g	500 g
17.	Barium nitrate	Sigma/Aldrich/Merck	500 g	500 g
18.	Ammonium acetate	Sigma/Aldrich/Merck	500 g	500 g
19.	Acetic acid	Sigma/Aldrich/Merck	2.5 L	2.5 L
20.	Methylated spirt	Sigma/Aldrich/Merck	5 L	6 L
21.	Mercuric chloride	Sigma/Aldrich/Merck	500 g	500 g
22.	Plumbic chloride	Sigma/Aldrich/Merck	500 g	500 g
23.	Bismuth chloride	Sigma/Aldrich/Merck	500 g	500 g
24.	Antimonium sulfate	Sigma/Aldrich/Merck	500 g	500 g
25.	Aluminum sulfate	Sigma/Aldrich/Merck	500 g	500 g
26.	Lead nitrate	Sigma/Aldrich/Merck	500 g	500 g
27.	Zinc chloride	Sigma/Aldrich/Merck	500 g	500 g

Physic lab

S.No	Name of Item with Specifications	Unit type	Qty
1	Fletcher's Trolley	Nos	5
2	kunds Tube Appratus	Nos	2
3	Simple Foundry Crane	Nos	1
4	Telescope	Nos	1
5	Helical Spring Apparatus	Nos	2
6	Stop Watch	Nos	5
7	Simple Roof Truss Apparatus	Nos	1
8	Universal Frame	Nos	1
9	Bell Space Crank Lever	Nos	1
10	Ungraduated Steel yard	Nos	1
11	Rider	Nos	1
12	Measuring Tape (Cloth type)	Nos	2
13	Jib Crane	Nos	1
14	Geomatery Box	nos	4

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S.No.	Item	Specification	Qty
1	CAT6 UTP Cable	305m pure copper	1 Roll
2	RJ45 Connectors	CAT6	100
3	LAN Tester	RJ45/RJ11	1
4	HDMI 15m	Nos	3
5	VGA Cable 15m	Nos	3
6	HDMI to VGA Converter	Nos	5
7	VGA to HDMI Converter	Nos	5
8	DDR4/DDR5 RAM	8GB	10
9	Air Blower	600W	2
10	Computer Toolkit	Maintenance	4
11	CMOS Battery	CR2032	24
12	Extension Board	Heavy duty	4
13	Microfiber Cloth		12
14	Cable Ties		10 packs

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S.NO	ITEM NAME	QUANTITY
1	Cement (Kohat)	10 Bags
2	Fine Aggregate	100 cft
3	Coarse Aggregate	100 cft
4	Bricks	2000 Nos
5	Drawing Sheets (Size 18" x 15")	3 Reams
6	Paint (Master) Off-White	2 Gallons
7	Paint (Master) Grey	2 Gallons
8	Distemper (Master) White	2 Gallons
9	Distemper (Master) Off-white	2 Gallons
10	Paint Brush 3"	6 Nos
11	Distemper Roller Brush	6 Nos
12	Paper Cutter	5 Nos
13	Office Scissor	2 Nos
14	Scotch Tape 2"	5 Nos

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No	Description of Material	Unit type	Qty
1	Lubrication Oil 20W-50	30Ltrs	
2	Diesel	20Ltrs	
3	Kerosene Oil	10Ltrs	
4	Hydraulic Oil	05Ltrs	
5	Chalk (White, Red)	02 Pack each	
6	Aluminum Cylindrical Blanks (110mm x 35mm) Dia x Thickness	20 Units	
7	Aluminum Cylindrical Blanks (90mm x 35mm)	20 Units	
8	Rags	05Kg	
9	Tee SquareLength = 60mm/ 24 inches - Dual scale- Plastic/Transparent Material- Silicon Joints (without screws)	20	
10	Set Square (set) Length = 6" and 8"- Dual scale (mm/inches)- Plastic/Transparent Material- Brand – ART-700	20	
11	Pencil (2H)	05 Packets	
12	Eraser (Rubber) Size-Normal	01 Packet	
13	Sharpener (Size- Normal)	01 Packet	

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