

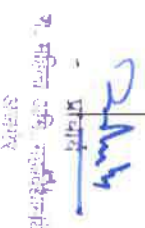
GOVERNMENT WOMEN ENGINEERING COLLEGE, MER
PROCUREMENT PLAN 2017-2019
UNDER TEQIP-III

S.No	Package Name	Item Category Goods	Item Sub Category (Equipment/ Books & LRs etc.)	Is Proprietary? (Yes/No)	Through DGS & D/ yes (No)	Through GEM (Yes/No)	Estimated Financial Sanction Date	Proc. Method	Item Name	Item Description/ Specification	Item Quantity	Item Estimated Cost Per Unit	Total Estimated Cost (in Lacs)	Justification
A) Goods														
									P-N Junction Kit	Reverse bias characteristics of a germanium/silicon semiconductor diode	4	0.1		
									Zener diode and its use as a voltage regulator kit	Reverse bias(breakdown) characteristics of a zener diode	4	0.1		
									Kit for plotting the frequency response Curve of single stage amplifier and to determine the gain bandwidth product	Frequency response Curve of single stage amplifier and to determine the gain bandwidth product	4	0.1		
									Kit for plotting the drain current-drain voltage and drain current-gate bias characteristics of field effect transistor(FET)	Drain current-drain voltage and drain current-gate bias characteristics of field effect transistor(FET)	4	0.1		
									Diode clipper & clamper kit	Diode clipper & clamper kit	4	0.1		
									Kit for plotting the gain-frequency characteristics of two-stage RC coupled amplifier	Gain-frequency characteristics of two-stage RC coupled amplifier	4	0.1		
									Kit for plotting the gain-frequency characteristics of emitter follower and to find out the input and output resistance	Gain-frequency characteristics of emitter follower and to find out the input and output resistance	4	0.1		
									Kit for plotting the input-output characteristics of BJT in CB, CC, and CE configurations	The input-output characteristics of BJT in CB, CC, and CE configurations	4	0.1		
									Kit to study the half wave rectifier and to measure the effect of filters on the rectifier output	Half wave rectifier and to measure the effect of filters on the rectifier output	4	0.1		
									Kit to study the working of bridge rectifier and to measure the effect of filters on the rectifier output	Bridge rectifier and to measure the effect of filters on the rectifier output	4	0.1		
									Kit for plotting the gain frequency characteristics of a BJT amplifier with and without negative feedback	Gain frequency characteristics of a BJT amplifier with and without negative feedback	4	0.1		
									Kit to study the series and shunt voltage regulators and to measure the line and load regulation with ripple factor	The series and shunt voltage regulators and to measure the line and load regulation with ripple factor	4	0.1		
									Kit to study and plotting the characteristics of small signal amplifier using FET	Small signal amplifier using FET	4	0.1		
									Kit to study the push pull amplifiers	The push pull amplifiers	4	0.1		
									Wien bridge oscillator kit	Wien bridge oscillator kit	4	0.1		
									Transistor phase shift oscillator kit	Transistor phase shift oscillator kit	4	0.1		
									Harley-colpitt oscillator kit	Harley-colpitt oscillator kit	4	0.1		
									K-derived filters (LP/HP)	K-derived filters (LP/HP)	4	0.1		
									Kit to plot the characteristics of UJT	UJT Kit	4	0.1		
									Kit to plot the characteristics of MOSFET and CMOS	Kit of MOSFET and CMOS	4	0.1		
									Analog Electronics Lab Trainer with ready to use board for Experiments on Analog electronics Simulation & Teaching software	Analog Electronics Lab Trainer with ready to use board for Experiments on Analog electronics Simulation & Teaching software	5	0.3		

18.3 For Upgradation of existing lab (Annexure 1)


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For Upgradation of existing lab

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24/11/2024

5	GWECAC/EC/ Communication Lab	Goods	Equipment	No	No	One Month	Shopping	Frequency Division Multiplexer /Demultiplexer Stereo FM Radio Trainer Frequency Modulation / Demodulation Fourier Synthesis Training System MSK Modulator/ Demodulator PAM-PPM-PWM Modulation- Demodulation Techniques PCM Generation & Demodulation using CODEC Chip PCM, DPCM Modulator & Demodulator QPSK, DQPSK Modulator & Demodulator Sampling & Reconstruction Technique TDM - PAM Transmitter Receiver TDM Pulse Code Demodulator and Receiver TDM Pulse Code Modulation & Transmitter Four Channel Analog TDM System Transmission Line Trainer	FDM Transmitter/Re Kt, Detail mentioned in Annexure 5 Amplitude Modulation Transmitter Kit , Detail mentioned in Annexure 5 Frequency Modulation Transmitter Kit, Detail mentioned in Annexure 5 Fourier Synthesis kit, Detail mentioned in Annexure 5 CRC Encoder / Decoder And MSK Modulation/Demodulation kit , Detail mentioned in Annexure 5 Pulse amplitude / pulse width/ Pulse position modulator/ Demodulation kit, Detail mentioned in Annexure 5 Pulse code Modulation Kit , Detail mentioned in Annexure 5 Pulse code Modulation Kit , Detail mentioned in Annexure 5 QPSK/DQPSK Modulation And Demodulation Kit , Detail mentioned in Annexure 5 Analog Signal Sampling and Reconstruction kit, Detail mentioned in Annexure 5 PAM Time Division Multiplexing /Demultiplexing Kit , Detail mentioned in Annexure 5 Pulse code Demodulation Kit , Detail mentioned in Annexure 5 Pulse code Modulation Kit , Detail mentioned in Annexure 5 PAM Time Division Multiplexing /Demultiplexing Kit , Detail mentioned in Annexure 5 Co-Axial Transmission Line Trainer, Detail mentioned in Annexure 5	2 3 3 3 2 3 2 2 2 2 2 3 2 2 3 2 2 3 3	0.165 0.33 0.33 0.225 0.225 0.165 0.33 0.495 0.275 0.165 0.165 0.165 0.165 0.165 0.165 0.165 0.165 0.165 0.225	For Upgradation of existing lab
6	GWECAC/EC/DE Lab	Goods	Equipment	No	No	One Month	Shopping	Universal IC Tester Asynchronous counter 4-bit ripple adder/subtractor Various type of flip flop Multiplexer & Demultiplexer kit SCR VI CHARACTERISTICS STUDY TRAINER R, R-C & UJT FIRING MODULE Study and test AC voltage regulators using triac, anti parallel thyristors and triac & diac DC Chopper Trainer Control Speed of a single-phase induction motor using single phase AC voltage regulator SPEED CONTROL OF DC SHUNT MOTOR USING SCR DUAL CONVERTER SINGLE PHASE CYCLO CONVERTER (HIGH VOLTAGE) DC MOTOR SPEED CONTROL TRAINER	Tests a wide range of Digital IC's such as 74 Series, 40/45 Series of CMOS IC's , Detail mentioned in Annexure 6 Asynchronous counter kit, Detail mentioned in Annexure 6 4-bit ripple adder/subtractor kit , Detail mentioned in Annexure 6 Various type of flip flop such as R-S,J-K and D-Flip flop , Detail mentioned in Annexure 6 Multiplexer & Demultiplexer kit, Detail mentioned in Annexure 6 SCR VI CHARACTERISTICS STUDY TRAINER, Detail mentioned in Annexure 7 Consists of three types of basic firing circuit to trigger SCR., Detail mentioned in Annexure 7 Study and test AC voltage regulators using triac, anti parallel thyristors and triac & diac, Detail mentioned in Annexure 7 DC Chopper Trainer , Detail mentioned in Annexure 7 Control Speed of a single-phase induction motor using single phase AC voltage regulator , Detail mentioned in Annexure 7 This set-up designed for forward and reverse speed control of DC shunt motor using SCR dual converter , Detail mentioned in Annexure 7 SINGLE PHASE CYCLO CONVERTER (HIGH VOLTAGE), Detail mentioned in Annexure 7 Ramp and Pedestal Trigger circuit , Detail mentioned in Annexure 7	2 5 5 5 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.5 0.1 0.1 0.1 0.1 0.1 0.24 0.34 0.29 0.25 1.4 0.65 0.35 1.1	For Upgradation of existing lab
7	GWECAC/EC/EE Lab	Goods	Equipment	No	No	One Month	Shopping	DC MOTOR SPEED CONTROL TRAINER	Ramp and Pedestal Trigger circuit , Detail mentioned in Annexure 7	1	1.1	For Upgradation of existing lab

GWECAC/EC/EE Lab
 Goods
 Equipment
 No
 No
 One Month
 Shopping

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 For Upgradation of existing lab

										SINGLE PHASE LOADING RHEOSTAT	SINGLE PHASE LOA RHEOSTAT; Detail mentioned in Annexure-7	1	0.14						
										SINGLE PHASE INDUCTIVE LOAD	SINGLE PHASE INDUCTIVE LOAD; Detail mentioned in Annexure-7	1	0.129						
										1 HP DC MOTOR	2 HP DC MOTOR; Detail mentioned in Annexure-7	1	0.125						
8	GW/ECA/ECE/ RF Simulation Lab	Goods	Lr	No	No	One Month	Shopping	Design, Simulation, Demonstration and Modeling of computational solutions such as antennas, high frequency components and devices using appropriate design software (RF Simulation)	A 3D EM simulation software for design and optimization of high frequency components/devices/antennas (coupler/planar/multi-layered structures/SIEMC etc. on the following solution techniques: FMM/FEM/PO/GO/LTD for multi-core processors. Detail mentioned in Annexure-8 (3 Users)	1	11	11		For Upgradation of existing lab					
9	GW/ECA/ECE/ RF Fabrication Lab	Goods	Equipment	No	No	One Month	Shopping	RF Fabrication Materials	FR-4, Isopra 438 laminates material, RO 3003 laminates, RO 4003 Laminates materials.. Detail mentioned in Annexure-9.	1	7	7		For Upgradation of existing lab					
10	GW/ECA/ECE/RF Measurement Solutions	Goods	Equipment	No	No	One Month	Shopping	RF Measurement Solutions	RF cables for microwave components upto 50 GHz, Adaptors and connectors for measurement of designed devices, components and antenna structures e.g SMA Male-Female, SMA Female-Female, SMA Female to Male, BNC to SMA, matching load box, and other connectors. Detail mentioned in Annexure-9	1	2.5	2.5		For Upgradation of existing lab					
11	GW/ECA/ECE/Mask cutting Equipment	Goods	Equipment	No	No	One Month	Shopping	Mask Cutting Equipment	Mask Cutting Equipment	1	3	3		For Upgradation of existing lab					
12	GW/ECA/ECE/VLSI Physical Design Lab	Goods	LRS	No	No	One Month	Shopping	Advance (3D) TCAD Tools IC NANOMETER DESIGN VERIFICATION AND PCB DESIGN EDA TOOL	Advance (3D) TCAD Tools; Detail as per Annexure-10 (5 Licences) IC NANOMETER DESIGN VERIFICATION AND PCB DESIGN EDA TOOL; Detail as per Annexure-10. (25 Licences)	1	20	20		For Upgradation of existing lab					
13	Gweca/ECE/Server(TLSI Labs)	Goods	Equipment	No	No	One Month	shopping	Server	D OS/Platform :- RedHat Enterprise Linux Workstation/Server 6.2 Ver or latest (64 bit)(Licensed/Registered) D RAM :- 32 GB (DDR4) D Hard disk :- 2 TB D Processor :- Intel® Xeon® Processor E3-1225 v5 Annexure-10	2	2.5	5		For Upgradation of existing lab					
14	GW/ECA/ECE/Raw Material ECE Deptt	Goods	Equipment	No	No	One Month	Shopping	Raw Material for Lab of ECE Deptt	Various types of Electronic Components such as Transistor, UJT, Zener Diode, Electrolytic capacitor Ceramic Capacitor, as mentioned in Annexure-11	Single Package	Single Package	6		For Upgradation of existing lab					
15	GW/ECA/ECE/Workshop p Lab	Goods	Equipment	No	No	One Month	Shopping	To study the specifications and working of a public address system To design and test SMPs using ICS To study the specifications and working of a DVD player To study the specifications and working of LCD TV To study the specifications and working of LED TV	To Study the specifications and working of a public address system. Detail mentioned in Annexure-12 Input : 80V±20V AC ±10%, 50 / 60Hz Output : +12V DC regulated -12V DC regulated -TV PC regulated Detail mentioned in Annexure-12 Signal System :- PAL/NITSC Playable Disc formats :- DVD-VIDEO, DVD+/-RW., Colour TFT LCD :- 5.7" TFT LCD (64k Color LCD); Detail mentioned in Annexure-12 Display Type :- LED Screen Size :- 19 inch (48cm), Detail mentioned in Annexure-12	1	0.4							1.86	For Upgradation of existing lab
16	GW/ECA/ECE/Microwave Lab	Goods	Equipment	No	No	One Month	Shopping	Connectors Set (SMA/BNC) RF cables RF Power meter	Connectors Set (SMA/BNC) As Mentioned in Annexure-13 1 meter with attenuation 1 dB/m Up to 6 GHz	2	0.15				1.9	For Upgradation of existing lab			
17	GW/ECA/ECE/Field Development Board	Goods	Equipment	No	No	One Month	Shopping	Analog Development Board FPGA Board (Field Programmable Analogic Design Board)	Analog Development Boards are specially designed to provide student and engineers the platform for creating analog systems. As Detail mentioned in Annexure-14 FPGA Board (Field Programmable Analogic Design Board) As Detail mentioned in Annexure-14	2	0.15				2	For Upgradation of existing lab			

						Digital Storage Oscilloscope	To obtain the wavefo Detail mentioned in Annexure-14	Digital Storage Oscilloscope As 1. Minimum	1	0.5		
18	GWECA-CC & IT Services/Firewall Gateway	Goods	Equipment	No	No	One Month	Shopping	Firewall/Gateway	1	10	10	For the security of Network System
19	GWECA-CC & IT Services/Network Controller	Goods	Equipment	No	No	One Month	Shopping	Network Controller	1	1	1	For the Wi-Fi Connectivity
20	GWECA-CC & IT Services MSDNAA-Dream Spark	Goods	LR(Software)	Yes	NO	NO	Direct Contract	MSDNAA-Dream Spark	1	4	4	Required Operating systems as well as tools for Academic purpose
21	GWECA-CC & IT Services/Internet Bandwidth	Goods	LRs	NO	NO	NO	Shopping	Internet Bandwidth	1	8	8	For the upgradation of Internet Bandwidth
22	GWECA-EEEP/Power Lab	Goods	Equipment	No	No	One Month	Shopping	DSPACE Processor Board ACE box	1	12	12	
23	GWECA-EEEP/Research Lab-I	Goods	Equipment	No	No	One Month	Shopping	TSM-Processor, armocortex	3	0.66666667	2	
24	GWECA-EEEP/Research Lab-II	Goods	Equipment	No	No	One Month	Shopping	MSO multi signal, Power Quality Analyse, in Annexure-19	1	12	12	
25	GWECA-EEEP/Power System Lab	Goods	Equipment	No	No	One Month	Shopping	Opnol-RT	1	20	20	
26	GWECA-EEEP/Power Electronics Lab	Goods	Equipment	No	No	One Month	Shopping	IGBT, GTO, Bread Bord, TRIAC, DIAC, Power BJT, Power MOSFET, Gate Driver, Sensors, LEDs, Diode, SCRs Etc.	1	2	2	
27	GWECA-EEEP/Smart Grid Lab	Goods	Equipment	No	No	One Month	Shopping	Smart Class Energy Efficiency Monitoring System	1	3	3	
28	GWECA-EEEP/Research Lab (Nonconventional Energy Lab)	Goods	Equipment	No	No	One Month	Shopping	Solar Photo Voltaic (Generation and Measurement), Solar Thermal Water Heating System Concepts, Solar Thermal High Temperature Heating System Concepts, Wind Energy System Concepts, Wind Turbine Emulation	1	15	15	
								LDR Module	20	230.4		
								IR Sensor	20	320		

Very useful for project and
research works for M. Tech as
well as B.Tech Students

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3/10/2024
3/10/2024

MQ2 Gas Sensor	1. This sensor monitors 4 kinds of gas, including gas, butane, propane, methane, alcohol, hydrogen, smoke, etc. (It is a basic composition of range of MQ2 and MQ5) 2. Operating voltage 3.3V-5V 3. Output will be Analog 4. Power indicator and Output Indicator LEDs.	20	320
DHT-11 Sensor (Humidity Sensor)	1. Power supply: 3.3-5.5V DC 2. Output signal: 1-wire bus digital signal 3. Sensing element: Polymer humidity resistor 4. Measuring range: humidity 20-90%RH; temperature 0-50°Celsius 5. Accuracy: hu	20	352
PIR Sensor	1. Working Voltage Range: DC 3.6V - 18V 2. Motion Detection Sensor 3. Current drain: <60uA 4. Voltage Output: High/Low level signal: 3.3V TTL 5. Detection distance: 3-7M (can be adjusted) 6. Delay time: 5-200S (can be adjusted, default 5s + 3%) 7. Blockade time: 2.5 S (default)	20	307.2
Ultrasonic Sensor Module HC-SR-04	1. Distance measurements from 2 cm to 450 cm 2. Distance measurement Sensor 3. Sensor has two main parts, a transducer that creates an ultrasonic sound and another listens to its echo 4. Working Voltage: DC 5V 5. Quiescent Current: 2mA 6. Level Output: 5V high 0V low	20	704
TSOP 1738 Sensor Module (IR TX/RX)	1. Photo detector and preamplifier in one package. 2. Internal Filter for PCM frequency. 3. Improved shielding against electrical field disturbance. 4. TTL and CMOS compatibility. 5. Output active low. 6. Low power consumption	20	256
Arduino UNO Board	1. Microcontroller ATmega328 2. Programmable Microcontroller Board 3. Operating Voltage: 5V 4. Input Voltage (Recommended): 7-12V 5. Digital I or O Pins 14 (of which 6 provide PWM output) 6. Flash memory 32 KB (ATmega328) of which 0.5 KB used by bootloader SRAM 2 KB (ATmega328)	20	704
Intel Edison Arduino Breakout Board	1. Intel Atom system-on-a-chip (SoC) based on leading-edge 22 nm Silver Mont microarchitecture including a dual-core CPU and single core microcontroller (MCU) 2. Integrated Wi-Fi, Bluetooth LE, memory, and storage 3. Support for more than 30 industry-standard I/O interfaces via a 70-pin connector 4. Support for Yocto Linux, Arduino, Python, and Node.js 5. Integrates with cloud platforms providing visualization of streamed data, dynamic rule evaluation/alerting and analytics	10	13440

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25/11/21

25/11/21

Raspberry Pi-3	<ol style="list-style-type: none"> 1. Product Dimension: 5.4×1.7 cm 2. Programmable based microprocessor system (Mini computer) 3. OS: Linux, window 10 IoT 4. Processor Brand Broadcom BCM2837 chipset 5. Processor Speed 1.2 GHz Processor Count: 4 6. RAM Size 1 GB 7. Graphics Coprocessor Broadcom Graphics Chipset Brand 8. Broadcom Graphics 	15	4480
CMOS IR Camera Module 720p 488	Raspberry Pi V2 Official 8 Megapixel HD Camera Board With IMX219 PQ CMOS Image Sensor.	10	3456
Triple Axis Accelerometer+ Gyroscope- MPU6050	<ol style="list-style-type: none"> 1. MPU-6050 modules (three-axis gyroscope + three-axis accelerometer) 2. Use the chip MPU-6050 3. Power Supply: 3-5v (internal low dropout regulator) 4. Communication Modes: Standard IIC communications protocol 5. Chip built-in 16bit AD converter, 16-bit data output 6. Gyroscope Range: 250 500 1000 2000 or ± 7. Acceleration Range: 2 g 4 g 8 g 	20	640
HMC5883L Triple Axis Magnetometer	<ol style="list-style-type: none"> 1. The sensor converts any magnetic field to a differential voltage output on 3 axes 2. Power 3V-5V DC 3. Chipset: HMC5883L 4. Communication via I2C protocol 5. Measuring range: ± 1 6. 3-8 Gauss 	20	1024
ESP8266-01	<ol style="list-style-type: none"> 1. Serial/UART baud rate: 115200 bps 2. Input power: 3.3V 3. I/O voltage tolerance: 3.6V 4. Max Flash Memory Size: 1MB (8Mbit) 5. High resolution mode: WDTA WDTA 	20	358.4
RFID Tag & Reader	<ol style="list-style-type: none"> 1. USB RFID Reader with USB, RS232 and TTL outputs 2. 125KHz Operating Range - Supports all types of tag cards, keyfobs and other RFID tags in 125KHz range 3. Can be powered via USB or power adapter (7V-20V) - 7805 Regulator on Board for adapter input 4. Buzzer indication for tag detection - LED indications present on board as well. 	10	576
RF Module TX & RX 315 MHz ASK	<p>RF Transmitter Features:</p> <ol style="list-style-type: none"> 1. Frequency Range: 433 920/15MHz. 2. Supply Voltage: 3-12V 3. Output Power: 4-16dBm 4. Circuit Shape: Saw <p>RF Receiver Features:</p> <ol style="list-style-type: none"> 1. Receiver Frequency: 433 92 /315 MHz 2. Typical sensitivity: -105dBm 3. Supply Current: 3.5mA 4. IF frequency: 1MHz 5. Low power consumption 	20	640
Voice Recognition	<ol style="list-style-type: none"> 1. Voltage: 4.5-5.5V 2. Current: <40mA 3. Digital Interface: 5V 4. TTL level UART interface 5. Analog Interface: 3.5mm mono-channel microphone connector + microphone pin interface 	5	5120

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Servo Motor with Driver Board	1. Operating Voltage 2. Current: DC 1 amps 3. Step angle - 1.8°/Step 4. Motor power - 10Kw/cm 5. Holding torque - 11 Kg/cm	10	3240
DC Motor	1. 1000 RPM 2. 12V 3. Torque: 3 kg-cm 4. 3.3-5V 5. Torque: 1.8 kg/cm 6. Weight: 9 gram	20	256
Servo Motor Motor	1. Compatible with arduino, raspberry pi, arm, avr, pic, 8051, etc - can provide bidirectional drive currents of up to 600-ma at voltages from 4 2. With terminal blocks for connecting motors and power supply and berg sticks for control signals from microcontroller 3. Can control 2 dc motors, their direction using control lines	10	256
L2938 Motor Driver	1. Material : FR2 PREMIUM QUALITY Copper Clad Phenolic 2. Holes provided : Yes Size: 140mm x 90mm 3. Copper Layer : laqueured (to prevent corrosion) 4. Package Content : 3 x Universal PCB Boards (General Purpose)	20	128
Bread Board 800 pin	1. Solder less breadboards are great for rapid prototyping 2. 400 Total Tie Points 3. 1 Terminal Strip (300 Tie Points) 4. 2 Distribution Strips (100 Tie Points) 5. Adhesive backing	10	147.2
16x2 LCD Display	1. LCD display module with Yellow Backlight 2. SIZE : 20x4 (2 Rows and 16 Characters Per Row) 3. Built-in industry standard HD44780 equivalent LCD controller	20	320
Single Stand Wire resistor set	1. Material : M-F, F-F 2. Resistor of 330ohm, 770ohm, 1k, 10K, 1M etc	5	256
9 Volt Battery	1. Battery Type: Zinc Carbon 2. Size: 6F22 006P 3. Jacket: Metal 4. Nominal Voltage (V) :9V 5. Discharge Resistance (Ω): 620	20	64
Battery/Cap	1. Fully compliant with USB 2.0 Specification Revision 2.0 and 1.1 2. Data transfer up to 480 Mbits /sec (40X increase from the USB 1.1 specification) 3. Fully compatible with PC and Macintosh 4. Supports up to 127 devices on a Daisy-Chain configuration 5. Supports Plug and Play specification. Made with High-Quality materials to guarantee reliable, error free data transmissions	20	19.2
soldering kit	Soldering IRON + Paste + Soldering wire & desoldering tool	5	640
SD card Class 10	SANIT Class 10 Memory Size 16GB	15	1088
HDMI to VGA Cable	1. CONVERTER PORT TO VGA 2. FULL HD SUPPORT	15	512
Raspberry Pi case	Suitable for Raspberry Pi 3	15	256
Arduino Case	Suitable for Arduino UNO	20	256
4 Wheel Robot Car Chassis Kit	Metallic Chassis	20	1280
DIY Robotic kits	Autonomous and Maze solver Robotic DIY KITS	10	3200



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Sand Permeability Meter	To perform permeability test. Complete with 2 Nos. orifices large & small and Permeability scale, for detail see in Annexure 22	1	57720
Sieve Shaker (Gyratory type)	A F S Sieve Analysis Test with following Accessories: A Set of following Sieves of 20 cm dia brass frame: 1.7 mm, 850, 600, 425, 300, 212, 150, 106, 75 and 53 Microns with Lid and Pan Digital Weighing balance 200 gm capacity, L.C. 0.01 g Annexure 22	1	46440
Sand Moulder	Batch Capacity: 5 Kg. Electric motor of 1/2 H.P. working on AC supply. For preparing A.F.S. standard test specimens. It is used to ram the sand specimen for A.F.S. green and dry permeability test of mould and core sand, compression test, shoring strength test, tensile strength test and transverse strength test and transverse strength test. Complete with sample tube, pedestal cup and stripping post. Accessories for the above rammer: (a) one Tensile Ramming Block (b) one Transverse Ramming Block (c) one Split specimen tube for detail see in Annexure 22	1	61800
Oven	Size 14"x14". G.I. inside	1	9360
Spot Welding Set	Hands on practice on Spot Welding. Spot Welding Set. 7 KVA	1	61800
MIG Welding set	MIG Welding set with a cylinder. Complete with all accessories	1	125000
TIG Welding set	TIG Welding set with a cylinder. Complete with all accessories	1	114000
Investment of Four Bar Mechanism	To study inversion of four bar chain: Coupling rod, Beam engine, To study Steering Mechanism, Davis and Ackerman. NOTE: On following models Coupling Rod, Beam Engine & Ackerman Steering Mechanism are provided. Model is made up of aluminium and other metallic parts: (i) Locomotive Coupling Bar Mechanism, or link mechanism, (ii) Beam Engine Mechanism and (iii) Ackerman steering gear mechanism. Detail mentioned in Annexure 23	1	8160
Model of Crank & Slotted Lever Mechanism	Study of quick return Mechanism and draw velocity and acceleration diagram, Metallic model mounted on the wooden board	1	3360
Crank and Slotted Lever Mechanism	Metallic model mounted on the board provided with a graduated scale	1	10080
Oldham Coupling	Study of inversion of double slider chain Oldham Coupling, Scotch Yoke Mechanism and Elliptical Trammel, Metallic section cut model explains the transmission between two shafts which are not co-axial. The model is mounted on a wooden base	1	3720
Scotch Yoke Mechanism	Metallic model mounted on the wooden board	1	2640
Elliptical Trammel	One of sixteen mechanisms built on an A3 board equally. The principal components are made from amber coloured Perspex, pivoted with hollow rivets, and mounted on a board	1	2160
Cam and Follower	Study of various Cam & Follower arrangements. Set consists of five different types, mounted individually on separate boards: (a) Ratchet cam. With reciprocating flat faced follower, (b) Tangent cam. With oscillating roller follower, (c) Eccentric cam. With translating follower, (d) Translating cam with reciprocating knife edge follower, (e) Elliptical cam with translating follower	1	13920

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Model of Babcock and Wilcox Boiler	It is a water tube boiler. The shell is 15 cm in diameter and 75cm in length and is fitted with a super heater and with inclined water tubes over the furnace connected with headers. Details mentioned in Annexure 24.	1	13800
Model of Locomotive Boiler	The model is specially designed to understand the working of a locomotive steam boiler. The steel shell is of about 20 cm dia and 60cm in length. The fire box is provided with a door and gate. Details mentioned in Annexure 24.	1	13800
Model of Cochran Boiler	This is the best known vertical type fire tube boiler. The shell is about 25cm in diameter and 60cm high. The cylindrical fire box is with a door and gate at its bottom. Details mentioned in Annexure 24.	1	10920
Vertical Water Tube Boiler	It is fitted inside a cylindrical fire box to increase the heating surface and improve the circulation of the water. The fire box is fitted with cross tubes. Details mentioned in Annexure 24.	1	10920
Loeffler Boiler	It is a properly constructed model made of wooden and metallic parts showing necessary parts such as economiser, press convection, super heater, steam outlet, radiant super heater. Details mentioned in Annexure 24.	1	12600
Lamont Boiler	It is a properly constructed non working model made of wooden and metallic parts showing necessary parts such as boiler, feed pump, check valve, economiser, Details mentioned in Annexure 24.	1	12600
Benson Boiler Model	It is a properly constructed non working model made of wooden and metallic parts showing necessary parts such as economiser. Details mentioned in Annexure 24.	1	12600
Velox Boiler Model	It is a properly constructed non working model made of wooden and metallic parts showing necessary parts such as air compressor, feed pump, and Details mentioned in Annexure 24.	1	13800
Sterling Boiler Model	It is a properly constructed non working model made of wooden and metallic parts showing necessary parts such as two upper drums, mud drum, water tubes, baffle wall, super heater, steam pipe and stop valve etc. Overall size is about 50 cm x 20 cm x 75 cm. Details mentioned in Annexure 24.	1	13800
Lever Safety Valve	An all metallic demonstration model shows the valve seat, fulcrum and lever with adjustable weights.	1	2520
Spring Loaded Safety Valve	The demonstration model is having two separate valves with one lever bearing loaded by a spring.	1	2400
Dead Weight Safety Valve	The valve is resting on the seat at the top of an outlet pipe. The valve and pipe are covered by a case carrying weights bearing freely from the valve.	1	2400
Combined High Steam and Low Water Safety Valve	Safety valve blows off when the steam pressure exceeds the working pressure. Details mentioned in Annexure 24.	1	3840
Water Gauge Model	The model is an all metallic and properly constructed. Upper and lower parts are with transparent inverts to make the interior construction visible and are connected by a hollow column. Details mentioned in Annexure 24.	1	3000
Stop Valve Hopkinson Type	The type has many advantages over ordinary design of junction stop valve. Details mentioned in Annexure 24.	1	3480
Feed Check Valve	Hopkinson's type, all metallic section cut model. A good design of non return valve and arrangement for regulating by hand can be easily demonstrated with this all metallic section cut model.	1	3360
Steam Injector	This cutaway demonstration model is to understand the system of feeding a boiler with water by direct use of steam. Showing water and steam inlet, overflow valve and overflow outlet. Details mentioned in Annexure 24.	1	4080

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Pressure Gauge	This cutaway demonstration model is to understand the system explaining the principle. Details mentioned in Annexure 24.	1	2400
Blow Off Cock	The model is a metallic sectionised mounted on base.	1	1920
Reducing Valve	The function of this valve is to maintain a constant reduced pressure on the engine side while the higher pressure on the boiler side may be variable. It is a large size section cut model.	1	3000
Fusible Plug	Section cut & properly constructed models mounted on polished wooden base.	1	2400
Anti-Priming Pipe	Model is complete with seating of junction valve. The perforated pipe is about 30 cm long and 4 cm in diameter.	1	1560
Expansion Steam Trap	In this system the advantage is taken of the expansion of material on heating. The unit is all metallic, section cut, mounted on 40 cm high wooden board.	1	3460
Float Steam Trap	This type is intended to separate water by a float which is raised when it accumulates in the trap, thus opening a valve and permitting water to escape. Details mentioned in Annexure 24.	1	4320
Green Economizer	It is an all metallic demonstration model to understand the working of a feed water heater. Complete with safety valve, scrapers, chains and pulleys. Details mentioned in Annexure 24.	1	7080
Sudgen Super Heater	Five passage and all brick work is shown in wood work and the model is made in such a manner that an inner section view can be seen easily. The overall size is about 30 x 30 x 20 cm.	1	5760
Actual Cut Section Model of Steering System	Demonstration of Steering system and measurement of steering geometry angles and their impact on vehicle performance. (NOTE: We are dealing in only demonstration model). Model consists of steering wheel rack & pinion, drop arm, drag link, steering arm and track rod. Model is mounted on a base.	1	18840
Model of Hydraulic Brake	Study of braking system with specific reference to types of braking system, master cylinder and brake shoes. Details mentioned in Annexure 24.	1	7320
Option I - Hydraulic Brake unit (Two Brake Drums)	Same as above but with two brake drums and a master cylinder.	1	13800
Option II- Hydraulic Brake unit (Four Brake Drums)	Same as above but with four brake drums and a master cylinder.	1	19920
Disc Brake Actual Working		1	18840
Power Brake Actual Working		1	35040
Air Brake Actual Working		1	36600
Clutch	Study of transmission system including clutches, gear box assembly and differential. Original, Dissected Model.	1	7320
Gear Box (Constant Mesh)	Original, sectionised 4/5 speed gear box with gear operating lever. Model is mounted on a stand.	1	13800
Option- Gear Box with Clutch	Original, sectionised 4/5 speed gear box with gear operating lever and clutch. Model is mounted on a stand.	1	21000
Actual Cut Section Gear Box (Sliding Mesh)		1	18840
Actual Cut Section Automatic Gear Box Car (Internal Gear)		1	57720
Differential Gear Assembly	Original, only dissected differential gear assembly mounted on a wooden base with driving handle.	1	7080
Differential and Rear Axle Assembly	Model consists of original parts as pinion & bevel, crown wheel, differential gear, shafts and brake drums. Model is mounted on a base.	1	18840
Model of Fuel Supply System of a Petrol Engine	Study of fuel supply system of a petrol engine (fuel pump and simple carburetor). Model consists of a petrol tank, fuel pump, filter and carburetor. Model is complete on a base of size 60 x 30 cm.	1	9360

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New Lab setup for
M E Department (Annexure
24)

32
CWECA, Mechanical He
at Transfer Lab

Goods

Equipments

No

No

No

One Month

Shopping

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Model of Fuel Supply System of a Diesel Engine	Study of fuel supply system of a Diesel engine (fuel pump and fuel injector). Model consists of a diesel tank, fuel injection pump, filter and automixer. Model is complete on a base board.	1	9360
Model of Ignition System of I.C. Engine	Study of Ignition System of an IC engine (Battery and magneto ignition system) and Electronic Ignition System. Model consists of a solenoid starter, ignition switch, ignition coil, distributor, four plugs with necessary connections and terminals for battery connections, with A small Battery with a rheostat.	1	9120
Model of Electronic Ignition System of I.C. Engine	Model consists of a solenoid starter, ignition switch, ignition coil, distributor, four plugs with necessary connections and terminals for battery connections	1	15000
Actual Cut Section Model of Splash Lubrication System of an Automobile	Study of Lubrication system of an IC engine (Mix, splash and pressure lubrication)	1	12600
Actual Cut Section Model of Water Cooled Cooling System of an Automobile		1	15000
Oxyal Gas Analysis Apparatus (Without Chemicals)	Analysis of engine exhaust gases using Oxyal apparatus / gas analyzer. For the determination of CO ₂ , CO and O ₂ particularly in fuel and furnace gases. Details mentioned in Annexure 24.	1	15000
Vapour Compression Refrigeration Cycle Test Rig	To study refrigeration cycle, determination of coefficient of performance of cycle and tonnage capacity of refrigeration unit. Details mentioned in Annexure 24.	1	112800
Mechanical Heat Pump Trainer	To determine the COP and tonnage capacity of a mechanical heat pump Heat pump and refrigerating machine basically works on the same principle and with the same components Compressor : 1/4 HP Kirloskar make, Condenser fin : Air cooled, steel & coil type, Solenoid valve : Expansion Valve : Thermostatic Expansion valve, Thermostat : 5C to Details mentioned in Annexure 24.	1	126000
Model Board Consisting of Various Controls Used in Refrigeration & Air Conditioning System	To study various controls used in Refrigeration and Air conditioning systems.	1	43800
Thermal Conductivity of Insulating Powder	(a) Experimental set up consists of: Testing material capillary, Guard heater & main heater assembly, etc. and (b) Control panel consists of: Digital voltmeter, Digital thermometer etc.	1	40440
Thermal Conductivity of Metal Rod	(a) Experimental set up consists of: Test rod of Brass, Band heater etc. and (b) Control panel consists of: Digital Voltmeter with I.C. of 0.1 V, Digital Ammeter with I.C. of 0.01 A etc.	1	35040
Pin Fin Apparatus	(a) Experimental set up consists of: Mechanical unit with Heater on test section, Set of thermocouples and Control panel consists of: Digital Voltmeter, Digital Ammeter etc.	1	37800
Emissivity Measurement Apparatus	(a) Experimental Set up consists of: Test plate: Polished Copper, Reference plate: Black Copper etc. and Control panel consists of: Digital Voltmeter with selector switch, Digital Ammeter - 2 Nos. etc., Detail Mentioned in Annexure 24.	1	39360
Stefan Boltzmann Apparatus	(a) Experimental Set up consists of: (i) Copper semi sphere with copper vessel, Hot water tank with immersion heater etc. and (b) Control panel consists of: Digital temperature indicator, Switch for Mains & Heater, etc., Detail Mentioned in Annexure 24.	1	35040
Natural Convection Apparatus	(a) Experimental set up consists of: Vertical cylinder with heater inside, Rectangular enclosure open from the top and bottom as well as one side passes along with stand etc. and (b) Control panel consists of: Digital Voltmeter, Digital Ammeter etc., Detail Mentioned in Annexure 24.	1	35040

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38	GW ECA Chemistry/Chemistry Lab	Goods	Equipment	No	No	No	One Month	Shopping	Balance	Max Capacity: 450g Jution : 0 lmg, etc. mentioned in Annexure-32	1	0.20			
									Fire extinguisher	ABC Store Pressure, 4Kgs to 6 Kgs. mentioned in Annexure-32	1	0.05		1	for Existing Lab
									Consumable	Glass Vases, Chemicals, Micropipettes, Thermometer, TLC Plates, mentioned in Annexure-32	Single Package	0.75			
39	GW ECA Library/Touch screen Panel for book	Goods	Equipment	No	No	No	One Month	Shopping	Touch Screen monitor for reading section	Touch Screen monitor for reading section	2	1		2	for Book enquiry in library
40	GW ECA Library/Books	Goods	Books	No	No	No	One Month	Shopping	Reference and Text Book	As recommended from various departments for UG and PG Students	-	-		15	for academic Purpose
41	GW ECA Library/Reading Table	Goods	Goods	No	No	No	One Month	shopping	Table for Library	Reading table for single person partition and sitting of 3 readers both side	10	0.25		2.5	Table for Library
42	GW ECA Library/E-Resources	Goods	LR	NO	NO	NO	1 Month	Shopping	E- Journals/ E-Books	E- Journals/ E-Books for UG and PG Students	-	-		50	annual subscriptions of e-journal and e-books
43	GW ECA Institute/Almiah	Goods	Furniture	No	No	No	One Month	shopping	Almiah	Almiah 72" x 36" x 18" with 04 compartment/22 Gauge	36	0.18			
									Almiah with Locker (Dept. IT)	Almiah with 20 Locker, Size: 1980 x 915 x 482 mm or bigger, Body - 1.25 Gauge, Shelves: 1.60 Gauge	1	0.2		6.68	As per mention in their corresponding package
									Almiah Library	Almiah 72" x 36" x 18" with 04 compartment/22 Gauge with plus door	40	0.15		6	To maintain lab record, files etc.
44	GW ECA Institute/Air Conditioner	Goods	Goods	No	No	No	One Month	shopping	Split Air Conditioner	1.5/2 ton Split Ac with installation 5star power rating	14	0.65		9.1	Air conditioning for labs
									Portable AC	3 ton Portable Ac with installation 5 star power rating	10	1.025		10.25	Air conditioning for Conference hall
45	GW ECA Institute/UPS & UPS Battery	Goods	Goods	No	No	No	One Month	shopping	UPS	10 kVA UPS with Battery	4	1.15			
									UPS	5 kVA online UPS and installation	1	0.6			
									UPS	15kVA online UPS	1	1.5			
									UPS Battery	UPS Battery 42 AH (ANNEX 18)	226	0.05		18	for Power Back up of Labs
46	GW ECA Institute/Projector	Goods	Goods	No	No	No	One Month	shopping	Projector	Resolution : 1920X1080 Brightness: 3000/4000 Lumens Aspect Ratio: 16:9 (HD) , Contrast ratio :- 2000:1 or better, Lamp Life :- 10000 Hrs or better, Zoom :- 1:1.1 or better, Projection Size :- 30" -300" or better With HDMI port.	11	1		11	for lab and other teaching purpose in various Departments
										scanner, printer photocopier, duplex printing support, ethernet and USB connectivity, (For IT and Library)	2	0.25			
47	GW ECA Institute/Multifunction printer	Goods	Goods	No	No	No	One Month	shopping	Multifunction Printer	Details are in Annexure 211. Duty cycle (monthly, A4) Up to 65,000 pages Recommended monthly page volume 4000 to 8000 Duty cycle (monthly, letter) Up to 45,000 pages Print technology: Laser Functions: Print, Copy, Scan, Mac compatible Yes, Details mentioned in Annexure 16 (For CE Dept.)	1	0.8		1.7	Various printing and scanning purpose
									Colour Printer (for Library)	Colour Printer	1	0.4			For printing of ID-cards with barcode
48	GW ECA Institute/Computer Systems	Goods	Equipment	No	No	No	One Month	shopping	High Performance Computer	7th Generation Intel® Core™ i7-7500U Processor (4MIB Cache, up to 3.5 GHz) Operating System :- Windows 10 Home Single Language 64bit English Microsoft Office latest professional Memory: min 16GB, 2400MHz, DDR4 Hard Drive 2TB 5400 RPM SATA Hard Drive Video Card: Min 4GB Graphics Memory Display 15.6 inch LED anti-glare display or equivalent Wireless mouse and keyboard Warranty: 1 Yr Ltd Hardware Warranty, Detail mentioned in	5	0.8		4	Project Lab purpose

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Board of Governors, GOS Ameer
(Govt. Medical College, GOS Ameer)

Dr. Farhatullah Khan
Secretary

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55	GW ECA/Institute smart classroom	Goods	Equipment	No	No	No	One Month	Shopping	CPU	classroom WARRANTY and Maintenance 1 years warranty on all the products for all active and passive components (except consumable items like Projector Lamp, battery etc.) of each item in Smart Class Room out of which 1st Year Comprehensive Warranty with manpower support.	3	0.4	24.08	For controlling and installing software projector for auditorium cum conference hall For digital writing projectors for other smart classrooms cum seminar hall
									Projector Type 1		1	2.5		
									Writing Pad		2	0.2		
									Projector Type 2		2	0.8		
									wireless presenter		4	0.02		
									HD video camera with Virtual Classroom software	AMC and support: AMC charges per year on regular visit basis (at least once in a month) or on call when required for smooth operation of all classrooms from the 2nd year to quote for 1 year for 2 class rooms (12 Visit minimum, and on Call when required)	2	1.5		for presentation support for video conferencing, live lectures and lecture recordings
									Projection screen		1	4.5		
									Document Camera		3	0.2		
56	GW ECA/Institute/Plagiariam detection software for 2017-18	Goods	LR	Yes	No	No	One Month	Direct Contract	Plagiarism detection software	10 admin and 100 student license one year 2017-18	1	4	4	plagiarism detection of the thesis and project reports for whole college
57	GW ECA/Institute/Plagiariam detection software for 2018-19	Goods	LR	Yes	No	No	One Month	Direct Contract	Plagiarism detection software	10 admin and 100 student license one year 2018-19	1	4	4	plagiarism detection of the thesis and project reports for whole college
Grand Total											599.42025			

B) Works															
58	GW ECA/Library/ Extension of Central Library	Works	Extension	no	No	No	1 Month	shopping	Extension of Central Library	As per CPWD/Sate PWD BSR	1	50	50	50	Extension for Library
59	GW ECA/Civil Buildings repair work in college	Work	Repair	no	no	No	1 Month	shopping	Building repair work in college	As per CPWD/Sate PWD BSR	1	20	20	20	Maintenance
60	GW ECA/Civil Research Lab Partition	Works	Refurbish	No	No	No	1 Month	shopping	Partition	P & F anodized aluminium work for doors, windows, ventilators etc. shutters including P & F hinges/rollers etc., P & F 12 mm Thick Pre-laminated three layer medium density, particle board grade I, type II, Pre laminated particle board with decorative lamination on both sides with glass panes of 5.0 mm thickness, P & F double action hydraulic floor spring of approved brand for Partition in ECE research lab	1	1.2	1.2	1.2	For UG and PG Students Projects
Grand Total											71.2				

C) Services															
61	GW ECA/TPO/Services	Service	Services	NO	NO	NO	1 Month	LCS	Pre Placement Assessment Test	Assessment of student for placement, on Industrial parameters with web portal supports	1000	1500	15	15	To Enhance Placement, by assessing the students before placement
62	GW ECA/Architectural & constructional & Services	Service	Services	NO	NO	NO	1 Month	LCS	Construction	Construction	1	5 (for 3 years)	5	5	For Construction
63	GW ECA/Accounts Audit & CA Services	Service	Services	NO	NO	NO	1 Month	LCS	Audit & CA Services	TEQP-III Accounts	1	3 (for 3 years)	3	3	For Audit and Account are very essential part of Budget
Grand Total											23				
Grand Total (Goods, Works and Services)											693.6203				

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 (Govt. Medical College, TOS Aimer)

(Signature)
 Dr. S. S. Sugandh
 (CC-TEQIP-III)

(Signature)
 Dr. S. S. Sugandh