



## Beant College of Engineering & Technology, Gurdaspur

### PP Details

Package Code	Package Name	Description	Item Category	Item Sub Category	Activity Name	Is Proprietary	Through DGS & D	Estimated Financial Sanction Date	Total Estimated Cost	Proc. Method	Item Name	Item Description	Item Quantity	Item Estimated Cost Per Unit
TEQIP-II/PB/PB1G02/1	ECE-BEEE	Performing the experiment as per University Course curriculum	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	77,500.00	Shopping				
											Kit for verification of Ohm law	Hit for experiment purpose for demo of Ohm's law and limitation	1	2,500.00
											Kit for verification of Kirchhoff	Experimental purpose of kirchhoff's law	1	3,000.00
											Kit for verification of Voltage-Current and power	Verification of voltage & current relation in RL circuit	1	3,000.00
											Kit for verification of Resistance-Inductance of coil by ammeter and voltmeter method	Measurement of resistance and inductance of coil	1	3,000.00
											Kit for verification of series parallel resonance of AC circuit	Demonstration of series and parallel resonance	1	10,000.00
											Kit for full wave bridge rectifier and to find relation between RMS and Av. value of rectified voltage	Kit for experimental purpose for rectification of AC wave using bridge rectifier and for relation between RMS and Av. value of rectified voltage	1	3,000.00
											Kit for verification of voltage & current relationships in star/delta circuits	Kit for experimental purpose for verification of voltage & current relationships in star/delta circuits for 3phase supply	1	10,000.00
											Kit for performing open circuit and short circuit tests on single phase transformer	Kit for experimental purpose for performing open circuit and short circuit tests on single phase transformer	1	20,000.00
											Kit for demonstration of Moving coil, Moving Iron and Dynamometer type instruments	Kit for experimental purpose for demonstration of construction and principle of Moving coil, Moving Iron and Dynamometer type	1	6,000.00

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TEQIP-II/PB/PB1G02/2	ECE-Ansoft	Research Lab	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	Yes	No	10/08/2012	600,000.00	Direct Contract	Thermocouple	instruments for demonstration of use of Thermocouple to students	1	4,000.00
											Strain Gauge	Strain Gauge Kit for demonstration of use of Strain gauge	1	4,000.00
											LVDT Kit	LVDT Kit for demonstration of use of LVDT	1	4,000.00
											Wattmeter	Digital Wattmeter Of range 0-500W	3	1,000.00
											Power Factor meter	Digital Power factor meter	2	1,000.00
											Software ANSOFT ,Low Frequency	Electromagnetic software including Maxwell,RMxpvt, Simplorer,PExprt,MCAD Translators	1	600,000.00
TEQIP-II/PB/PB1G02/3	ECE-Digital Electronics Lab	Enhance the facility for students to perform the experiments	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	07/08/2012	100,000.00	Shopping				
											Kit for Verification of the truth table of the Multiplexer 74150.	Kit for Verification of the truth table of the Multiplexer 74150.	3	5,000.00
											Kit for Verification of the truth table of the De-Multiplexer 74154.	Kit for Verification of the truth table of the De-Multiplexer 74154.	3	5,000.00
											Kit for Design and verification of the truth tables of half adder and full adder circuits using gates 7483.	Kit for Design and verification of the truth tables of half adder and full adder circuits using gates 7483.	3	5,000.00
											Kit for Design fabrication and testing of differentiator and integrator circuits using OP AMP.	Kit for Design fabrication and testing of differentiator and integrator circuits using OP AMP.	3	5,000.00
											Kit for Design fabrication and testing of clipper and clamper circuits using OP AMP.	Kit for Design fabrication and testing of clipper and clamper circuits using OP AMP.	3	5,000.00
											Kit for Design and test of various type of Flip-flop.	Kit for Design and test of various type of Flip-flop.	3	5,000.00
											Kit for BCD to Decimal decoder 7442 and an array of LEDs.	Kit for BCD to Decimal decoder 7442 and an array of LEDs.	2	5,000.00
TEQIP-II/PB/PB1G02/4	ECE-Digital Communication Lab	lab use for UG students	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	07/08/2012	86,000.00	Shopping				

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											TDM Pulse Code Modulation Transmitter Trainer.	On-board Generators: 1- Adjustable Amplitude Sine Generator of two different frequency, 2- Variable Amplitude DC Level (2Nos.) Input Channels: Two Multiplexing: Time Division Multiplexing Modulation: Pulse Code Modulation Sync Signal: Pseudo Random Sync. Code Generator Error Check Code: Off- Odd- Even –Hamming Power: 230V± 10%, 50Hz	2	10,500.00
											TDM Pulse Code Modulation Receiver Trainer.	Demodulation: Pulse Code Demodulation.n  Clock: Regeneration by PLL  Error Detection: Off-Odd- Even Parity Hamming Code  Error Correction: Hamming code Power: 230V ±10% 50Hz	2	10,500.00
											Delta, Adaptive Delta Demodulation Trainer.	Different Sampling Frequencies (able)  On-Board Generator: Synchronized &Adjustable Amplitude Sine wave generator at differernt frequencies. separate Variable D.C.level  Integrators: 4 integrator with different gain settings	1	13,000.00
											Data Formatting and Carrier Modulation Transmitter Trainer.	Power: 230V± 10%, 50Hz Input: Two channel Time Division Multiplexed Data Data Formats: N.Z. (L), N.Z. (M) RZ, AMI, RB Biphasic	1	11,000.00

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											Carrier Demodulation and Data Reformatting Receiver Trainer	(Manchester), Biphase (Mark) differentially encoded di-bit pair Carrier Modulation: FSK, PSK, ASK, & QPSK  On-board carrier: Sine wave synchronized to transmit data at two different frequencies and at two phase) Power: 230V± 10%, 50Hz 2 Channel TDM Multiplexed Data Stream	1	11,000.00
											8 Bit Variable Data Generator	Reconditioning options: NRZ (M) RZ, AMO, RB Bi-phase (Manchester),  Bi-phase (Mark), Differentially encoded di-bit pair to NRZ(L)  Carrier Demodulation: 1.ASKRectifier diode 2. FSK-PLL Detector  3.PSK- Square Loop Detector  4. QPSK- Fourth Power Loop Detector  Power: 230 V±10%, 50Hz Capable of generating random 8-bit variable data patterns Power: 230 V±10%, 50Hz	2	4,500.00
TEQIP-II/PB/PB1G02/5	ECE-LIC lab	For lab use of students and enhance the lab facility	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	08/08/2012	126,300.00	Shopping	Operational Amplifier as Instrumentation Amplifier	Supply, two 0-5 DC Regulated short circuit and overload protected  continuously variable Power Supplies,sufficient	1	4,500.00

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											Operational Amplifier as Summing, Scaling, Averaging, Window Detector & Zero	minimum three no. IC 741 placed inside & connections brought out on sockets. at sockets. One Potentiometer and combination of Resistances provided on the front panel. Two continuously variable, over load & short circuit protected DC regulated power supplies of 0-5VDC & 0-15VDC. Two Fixed output DC Regulated power supplies of 5V & 12V. Different type of Resistances, Capacitors & Diodes are mounted behind the front panel and Circuit diagram Printed . Two DC voltmeters are also mounted on front panel to take the observations. Two Operational amplifier IC 741 is placed inside the cabinet and connections brought out	2	3,000.00
											Digital Oscilloscope	100 Mhz, TwoChannel, 2GS/s Sampling Rate, 2.5 K Record Length, Colour Display 16 Automatic Measurement, FFT, Context sensitive help, Probe Check Wizard, USB interface, 10years limited lifetime warranty.	2	5,500.00
											Digital Oscilloscope Tektronics	100 Mhz, Four Channel, 2GS/s Sampling Rate, 2.5 K Record Length, Colour Display 16 Automatic Measurement, FFT, Context sensitive help, Probe Check Wizard, USB interface, 10years limited lifetime warranty.	1	80,000.00

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TEQIP-II/PB/PB1G02/6	ECE-VLSI	To enhance the facility of VLSI Design	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	Yes	No	08/08/2012	820,000.00	Direct Contract	Study of Logrithmic Amplifier	DC Regulated short circuit and overload protected continuously variable Power Supply fixed output DC Regulated Power Supply of + 15V, Circuit diagram Printed &one Potentiometer, IC 741and power of 220 V, 50 Hz	1	3,200.00
											Active filters using op-amp	Fixed output DC regulated power supply of +15V. operational amplifier IC 741, Circuit diagram Printed & important connections are brought on sockets. Different combinations of resistance and capacitances provided.	1	3,600.00
											Function Generator	1 MHz with Frequency Counter and dispal	2	9,000.00
											Mentor Graphics( HEP Category 2)	Mentor Graphics HEP Category 2 – Design & Verification Test (Digital Design) FPGA Flow – HDL Designer – Modelsim SE Mixed – Leo Spec L3 ASIC – Precision RTL Plus Synthesis (FPGA Advantage)	1	250,000.00
											Xilinx ISE Logic Edition 13.4	Software (Version 13.4, 25 Users license, perpetual type) Xilinx ISE Logic Edition 13.4 • ISE Foundation • ISIM Full • Chipscope Pro • Serial I/O toolkit • PlanAhead Part Number (UEF – ISE – LOG – 50)	1	110,000.00
Spartan-6 FPGA SP605 Evaluation Kits(original Xilinx make)	• SP605 Base Board with the XC6LX45T-FGG484-3 • CES FPGA	2	60,000.00											

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											Virtex-5 FXT FPGA ML507 Evaluation Platform(original Xilinx make)	<ul style="list-style-type: none"> <li>• Part Number: EK-S6-SP605-G</li> <li>• Cables and adapters Accessory documentation etc.</li> <li>XC5VFX70TFFG1136</li> <li>? DDR2 SODIMM (256 MB)</li> <li>? ZBT SRAM ( 1 MB)</li> <li>? Linear Flash ( 32 MB)</li> <li>? System ACE™ CF technology (CompactFlash)</li> <li>? Platform Flash</li> <li>? SPI Flash</li> <li>? JTAG programming interface</li> <li>? External clocking (2 differential pairs)</li> <li>? USB (2) – host and peripheral</li> <li>? PS/2 (2) – keyboard, mouse</li> <li>? RJ-45 – 10/100/1000 networking</li> <li>? RS-232 (Male) – serial port</li> <li>? Audio In (2) – line, microphone</li> <li>? Audio Out (2) – line, amp, SPDIF, piezo speaker</li> <li>? Rotary encoder</li> <li>? Video Input</li> <li>? Video (DVI/VGA) output</li> <li>? Single-ended and differential I/O expansion</li> <li>? GPIO DIP switch (8), LEDs (8), and push buttons</li> <li>(? GTX: PCIe™</li> <li>? GTX: SATA (dual host connections)</li> <li>? GTX clock synthesis chips</li> <li>? Header for second serial port</li> <li>? Second Platform Flash PROM (32 Mb) for large device</li> <li>?Mictor trace port</li> <li>? BDM debug port</li> <li>? Soft touch port</li> <li>Cables and adapters</li> </ul>	2	140,000.00

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											Atlys Spartan 6 FPGA kit	Accessory and documentation etc. Xilinx Spartan-6 LX45 FPGA, 324-pin BGA package • 128Mbyte DDR2 16-bit wide data • 10/100/1000 Ethernet PHY • On-board USB2 ports for programming & data transfer • USB-UART and USB-HID port (for mouse/keyboard) • Two HDMI video input ports & two HDMI output ports • AC-97 Codec with line-in, line-out, mic, & headphone • Real time power monitors on all power rails • 16Mbyte x4 SPI Flash for configuration & data storage • 100MHz CMOS oscillator • 48 I/O's routed to expansion connectors • GPIO includes 8 LEDs, 6 buttons, & 8 slide switches • Ships with a 20W power supply and USB cable • Cables and adapters Accessory and documentation etc.	3	20,000.00
TEQIP-II/PB/PB1G02/7	ECE-Microprocessr and Microcontroller Lab	Enhance the facility for UG programme	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	08/08/2012	213,000.00	Shopping	8085 ADVANCED MICROPROCESSOR TRAINER KIT	Based on 8085 CPU operating at 6.144 MHz crystal. * 16K bytes of EPROM loaded with powerful monitor program. * 8K byte of RAM available to the user. * Total on board memory expansion upto 64K bytes using 2732/2764/27128/6264. * Memory mapping definable by the user.	5	7,000.00



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											TRAINING KIT CUM EMULATOR 8085	* Six seven segment Hexadecimal display * 48 programmable I/O lines using two nos. of 8255. * Based on 8085 microprocessor operating at 6.144Mhz clock frequency. * VMC-ICE8085P comprises of three components viz., a) Microprocessor Kit b) In-circuit Emulator c) Cross Assembler * 48K Emulation Memory, RAM area starting from 0000H. * Onboard battery backup for 8K emulation memory. * 8K byte of EPROM loaded with powerful monitor program. * 48 I/O lines using 2 nos. of 8255 * 16 bit timer/counter using 8253. * 28 Keys Hexadecimal Keyboard and six digit seven segment display. * 40 pin Header with cable for connecting the target system. * Programmer for 27 series EPROMs with facility to Blank Check, Verify, Program & Read * Can be operated in both Serial & Stand-alone mode.	2	13,000.00
											8086 MICROPROCESSOR TRAINING KIT	Based on Intel's 8086/8088 CPU operating at 2.5/5MHz. * 32K bytes of RAM available to the user * 32K bytes of EPROM loaded with powerful monitor program(2764/27128). * Total on board memory capacity of 256K bytes of RAM and 256 K	5	8,000.00

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											8051 ADVANCED MICROCONTROLLER TRAINING KIT WITH LCD DISPLAY, AD/DA & INBUILT POWER SUPPLY	bytes of EPROM. * Battery backup provided for RAM area. * 72 I/O lines through three nos. of 8255. * 16 bit Timer/Counter through 8253. * RS-232C for CRT Terminal through 8251 Baud rate ion through DIP switch from 110-19,200 baud. * Real Time Clock (optional) * 20x2 Liquid Crystal Display. Based on 8051/89C52 microcontroller * On board 32K RAM. * Battery backup for RAM area * 64 K bytes of EPROM with powerful monitor program * 48 I/O lines using 2 Nos. of 8255 * 3 channel programmable timer/counter using 8253 * Two external interrupts INT0 & INT1 from CPU * IBM PC compatible keyboard for entering the program, editing and executing the programs. * 20 x 2 LCD (Liquid Crystal Display) is provided for display	5	8,000.00
											MICROCONTROLLER TRAINING KIT 8051	Based on 8031/8051 microcontroller operating at 10/12Mhz clock frequency * VMC-ICE 31/51P comprises of four components viz., (8051) On Board LCD Display 4 multiplexed 7-segment display 8 I/P from DIP 8 O/P available on LED Program AT89S51 and	2	16,000.00
											based Project orient boards	(8051) On Board LCD Display 4 multiplexed 7-segment display 8 I/P from DIP 8 O/P available on LED Program AT89S51 and	20	2,000.00

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TEQIP-II/PB/PB1G02/8	ECE-PCB Lab	PCB for UG course	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	10/09/2012	92,000.00	Shopping		P89C51 RD2 On Board Reset Stepper Motor interface 2x2 Matrix keypad USB Programming Facility		
											ROLLER TINNING MACHINE	The ETA-RTM is a tabletop unit for Tin/Solder coating of PCB's. * A hand operated flywheel always easy manual coating of boards. * Maximum PCB width : 10" * Maximum PCB thickness : 6mm * Older bath capacity : 4-6kgs.	1	35,000.00
											PCB DRILLING MACHINE	A compact tabletop high speed drilling machine with a quick change Chuck * Drill holding by precision chuck with lapped jaws. * Mains operated AC/DC motor * Motor Speed :upto 9,000/20,000 RPM. * Range : 0.8 to 3.0mm	1	18,000.00
											PCB SHEARING MACHINE	A Bench top shearing machine to PCB's and Laminators. * Structure with central handle allows ease of cutting. * Width : 300mm. * Table size : 400mm x 350mm.	1	19,000.00
TEQIP-II/PB/PB1G02/9	ECE-Software Lab	Enhance the facility for UG and faculty reserach	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	Yes	No	09/08/2012	480,000.00	Direct Contract	Chemical	Solder 63 : 37 Roll Salt Flow Coat Red Bulb Assembly Tray for Roller Tinning etc.	1	20,000.00
											OptiSystem V 10.0 (or Latest)	Optical Communication System and Amplifier Design Suite	1	480,000.00

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TEQIP-II/PB/PB1G02/10	ECE- Instrumentation lab	For lab use of students	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	08/08/2012	286,000.00	Shopping	Digital Oscilloscope Tektronics	100 Mhz, Four Channel, 2GS/s Sampling Rate, 2.5 K Record Length, Colour Display 16 Automatic Measurement, FFT, Context sensitive help, Probe Check Wizard, USB interface, 10years limited lifetime warranty.	2	80,000.00
											Function Generator	1 MHz with Frequency Counter and display	2	9,000.00
											Kit to study Amplitude Modulation & Demodulation	Observe change in the carrier amplitude according to the amplitude of the modulating signal Calculate modulation index of the modulated signal Recovery of modulating signal from demodulator circuit	2	6,000.00
											Kit to study Frequency Modulation & Demodulation	Observe change in the carrier frequency according to the amplitude of the modulating signal ,  Calculate modulation index of the modulated signal Recovery of modulating signal from demodulator circuit	2	6,000.00
											Kit to study Single Side Band Modulation & Demodulation	Observe the single side band modulation by producing DSB-SC signal Recovery of modulating signal from demodulator circuit.	2	6,000.00
											Kit to study DSB-SC Modulation and Demodulation	Observe the single side band modulation by producing signal Recovery of modulating signal from demodulator circuit.	2	6,000.00
											Kit to study schering bridge	schering bridge	2	6,000.00
											Kit to study Kelvin Bridge	Kelvin Bridge	2	6,000.00
											Kit to study Weins Bridge	Weins Bridge	2	6,000.00

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TEQIP-II/PB/PB1G02/11	ECE-Microwave lab	For UG students	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	08/08/2012	300,000.00	Shopping	Kit to study Maxwell Inductance Bridge	Maxwell Inductance Bridge	2	6,000.00
											Kit to study Wheatstone Bridge	Wheatstone Bridge	2	6,000.00
											klystron based x- band microwave test bench	Solid state Klystron power supply, Klystron Mount Klystron tube, Isolator , Frequency meter (direct read out, digital display) Variable attenuator, Slotted section , Tunable probe , Detector mount , Movable short , Matched terminator, VSWR meter, Wave guide stand, S.S. tuner, Cooling Fan and other reqd. accessories	1	150,000.00
										Antenna based x – band microwave test bench	Solid state Klystron power supply, Klystron Mount, Klystron tube, Isolator, Frequency meter (direct read out, digital display), Variable attenuator, Detector mount, VSWR meter, Radiation Pattern Turn Table, Wave guide stands, Wave Guide Bend, 90°, Precision Movable Short, Wave Guide Twist, Cooling Fan,Antennas: Standard Gain Horn, Pickup horn antenna Slotted antenna Broad wall Slotted antenna Narrow wall Dielectric antenna E Plane Sectoral Horn H Plane Sectoral Horn	1	150,000.00	

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TEQIP-II/PB/PB1G02/12	ECE-Digital Communication System	Enhance the facility for UG enrolled students	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/04/2013	60,500.00	Shopping		Parabolic Disc Pyramidal Horn and other reqd. accessories		
											TDM Pulse Code Modulation Transmitter Trainer.	On-board Generators: 1- Adjustable Amplitude Sine Generator of two different frequency, 2- Variable Amplitude DC Level (2Nos.) Input Channels: Two Multiplexing: Time Division Multiplexing Modulation: Pulse Code Modulation Sync Signal: Pseudo Random Sync. Code Generator Error Check Code: Off- Odd- Even -Hamming Power: 230V± 10%, 50Hz	1	10,500.00
											TDM Pulse Code Modulation Receiver Trainer.	Input Channels: 2 TDM Serial input  Demodulation: Pulse Code Demodulation.n  Clock: Regeneration by PLL  Error Detection: Off-Odd- Even Parity Hamming Code  Error Correction: Hamming code	1	10,500.00
	Delta, Adaptive Delta Demodulation Trainer.	Power: 230V ±10% 50Hz Different Sampling Frequencies (able)  On-Board Generator: Synchronized &Adjustable Amplitude Sine wave generator at differernt frequencies. separate Variable D.C.level  Integrators: 4 integrator with different gain settings	1	13,000.00										

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											Data Formatting and Carrier Modulation Transmitter Trainer.	Power: 230V± 10%, 50Hz Input: Two channel Time Division Multiplexed Data Data Formats: N.Z. (L), N.Z. (M) RZ, AMI, RB Biphasic (Manchester), Biphase (Mark) differentially encoded di-bit pair Carrier Modulation: FSK, PSK, ASK, & QPSK	1	11,000.00
											Carrier Demodulation and Data Reformatting Receiver Trainer	On-board carrier: Sine wave synchronized to transmit 2 Channel TDM Multiplexed Data Stream  Reconditioning options: NRZ (M) RZ, AMO, RB Bi-phase (Manchester),  Bi-phase (Mark), Differentially encoded di-bit pair to NRZ(L)  Carrier Demodulation: 1.ASKRectifier diode 2. FSK-PLL Detector  3.PSK- Square Loop Detector  4. QPSK- Fourth Power Loop Detector	1	11,000.00
											8 Bit Variable Data Generator	Power: 230 V±10%, 50Hz Capable of generating random 8-bit variable data patterns Power: 230 V±10%, 50Hz	1	4,500.00
TEQIP-II/PB/PB1G02/13	ECE- Analog Communication lab	Enhance the facility for UG students	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/04/2013	112,300.00	Shopping	Operational Amplifier as Instrumentation Amplifier	Supply, two 0-5 DC Regulated short circuit and overload protected	1	4,500.00

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											Operational Amplifier as Summing, Scaling, Averaging, Window Detector & Zero	continuously variable Power Supplies,three no. IC 741 placed inside &connections brought out on sockets. at sockets. One Potentiometer and combination of Resistances provided on the front panel Two continuously variable, over load & short circuit protected DC regulated power supplies of 0-5VDC & 0-15VDC.  Two Fixed output DC Regulated power supplies of 5V & 12V.  Different type of Resistances, Capacitors & Diodes are mounted behind the front panel and Circuit diagram Printed . Two DC voltmeters are also mounted on front panel to take the observations. Two Operational amplifier IC 741 is placed inside the cabinet and connections brought out	1	3,000.00
											Study of Logrithmic Amplifier	DC Regulated short circuit and overload protected continuously variable Power Supply fixed output DC Regulated Power Supply of + 15V, Circuit diagram Printed &one Potentiometer, IC 741and power of 220 V, 50 Hz	1	3,200.00
											Active filters using op-amp	Fixed output DC regulated power supply of +15V. operational amplifier IC 741, Circuit diagram Printed & & important connections are brought on sockets. Different combinations of resistance and	1	3,600.00



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											Function Generator	capacitances provided. 1 MHz with Frequency Counter and display	2	9,000.00
											Digital Oscilloscope Tektronics	100 Mhz, Four Channel, 2GS/s Sampling Rate, 2.5 K Record Length, Colour Display 16 Automatic Measurement, FFT, Context sensitive help, Probe Check Wizard, USB interface, 10years limited lifetime warranty.	1	80,000.00
TEQIP-II/PB/PB1G02/14	CBE-Process Control & Heat Transfer	Performing experiments in lab for UG students	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	08/08/2012	348,500.00	Shopping	Thermocouple Calibration Test Rig	Heat Source: Provide with ceramic Insulation. Temp. Controller: Digital Temperature Controller 200° C Thermocouple: Standard 3 types of thermocouple a) CR/AL b) Cu-constantan c) Fe-constantan Thermometer: Glass thermometer, range 0-200° C The whole setup will be mounted on a base plate Most of the parts are powder coated and rest are painted with Auto paints	1	88,500.00
											Time Constant (Thermocouple / Thermometer)	Heat Source : Provided with Ceramic insulation. • Heater : Nichrome Wire Heater. • Temp. Controller : Digital Temperature controller, 0 to 200°C • ICE Pot : Compatible capacity. • Thermometer : Glass Thermometer, Range 0-100°C. • Thermocouple : Fe-	1	70,000.00

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											First Order and Second Order System	Constantan type • The whole unit is assembled rigidly on a panel plate. • Most of the parts are powder coated and rests are painted with auto paints First order and second order system	1	70,000.00
											Heat pipe demonstrator	Product Code: 320 Thermometer: Range 10-0-1000C Thermometer with thermowell: Range-10-0-1000C 'U' tube manometer: Tube ID 1.6 mm 'U' Tube manometer: Tube ID 3.75 mm Heating Bath: Size 1.25BSP, 315mmL, SS304 Heater: Size 1.25BSP, 2Coil, 3Kw Timer: Model 55C-T8, cyclic Beeper: Time setting Range 2-10 sec Overall dimensions: 370Wx225Dx485 H mm Pipes : 1st : Heat pipe made of stainless steel. 2: Made of copper. 3: Made of Stainless steel Size : 32mm dia, 350 mm length (Approx.) • Heat Sink : Material Stainless steel. • Working fluid in heat pipe : Distilled water. • Heaters : Nichrome Wire Band Type. • Control panel comprising of Digital Voltmeter : 0-300	1	60,000.00

**PP Details**

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											Drag coefficients Apparatus	Volts. Digital Ammeter : 0-2 Amp. Variat : 0-230 V, 4 Amp. Digital Temperature Indicator : 0-200oC, with multi-channel switch Temperature Sensors : RTD PT-100 type. With standard make On off switch, Mains Indicator etc. • The whole set-up is mounted on a Powder Coated Base plate Tubes (3 Nos.) : Material Borosilicate Glass tube. • Gate Valves : 6 Nos. (2 Nos. on each Tube) • Stop Watch : Electronic. • Steel and glass balls of different sizes will be provided. • The whole set-up is well designed and arranged in a good quality painted structure having the tube light arrangement	1	60,000.00
TEQIP-II/PB/PB1G02/15	CBE-Environment Engg	Performing the experiments for UG students	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	08/08/2012	600,000.00	Shopping	SENSODIRECT pH200 pHMETER	Tempearture : - 10.0....+110.0C pH: 0.00....14.00pH RedoxORP: - 1999 ....+2000mV -Accuracy: At nominal temperature unit +/-1 digit -Temperature Compensation: With temperature probes, automatic temperature compensationATC0 is effected in measuring modes "pH" or "Rel mV". -Without measuring probe,manual temperature input is necessary. -Input Resistance:>10^12 Ohm Typ -Input Current :<1 pA -Nomimal Temperature:25C	1	60,000.00

**PP Details**

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											Hand-Held Conductivity Meter 200	Operating Temp: 0 to +50°C. -Memory: -20 to +70°C. -Power Supply: 4 x 1.5V Battery, type AA operating time up to > 15,000h Automatic Off Function: If no key is pressed or if there is no data transfer, the unit switches off after run-down of the switch-off delay. Particular of Items -pH Calibration: 1-Point, 2-Point, or 3-Point calibration Standard Buffer, DIN buffer or user able buffer. -WaterProof -Battery operation period upto 15,000 hours Conductivity : 0.0 .. 200.0 µS/cm 0 .. 2000 µS/cm 0.00 .. 20.00 mS/cm 0.0 .. 200.0 mS/cm Resistance : 0.005 à 100.0 kOhm*cm TDS : 0 à 1999 mg/l Salinity : 0.0 à 70.0 g/kg Accuracy : ± 0.5 % v. MW ± 0.5 % FS ± 3 digits Temperature : -5.0 à 100.0 °C, 23.0 à 212 °F Accuracy : ± 0.3K , Cell constant : 0.50 ± 0.10 cm <sup>-1</sup> Temperature compensation : able:	1	70,000.00
											Alkalinity Test Kit	Alkalinity • Caused by the presence of carbonates, bicarbonates, hydroxides, and other dissolved salts, alkalinity is important to food and beverage processors, boiler operators, and aquatic	1	28,000.00

**PP Details**

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												biologists. • Determine phenolphthalein and total alkalinity by visual endpoint titration. Digital Titrator: • Faster than a buret • Accurate to ±1% • Complete portability • Interchangeable cartridges Method / Chemistry : Digital Titrator/Sulfuric acid Range (mg/L) : 10-4000 Smallest Increment (mg/L) : 0.1-10		
											POCKET COLORIMETER II For Chlorine:	Pocket Colorimeter should have preprogrammed for Chlorine for range 0.02 to 2.mg/L The instrument should have capability for user-entered calibration. Approximate no. of tests 100 Absorbance Range : 0 to 2.5Abs	1	52,000.00
											Flame Photometers,	Features: * Microprocessor based instrument * Can simultaneously analyze Na, K & Ca in single aspiration of the sample with proper removal of interferences * Samples data storage facility * Instrument carries advanced features like automatic ignition, automatic gas shut off in case of a power failure  Specifications: Range: Sodium (Na) : 1 – 100 ppm Potassium (K) : 1 – 100 ppm Calcium (Ca) : 15 – 100	1	80,000.00

**PP Details**

Package Code	Package Name	Description	Item Category	Item Sub Category	Activity Name	Is Proprietary	Through DGS & D	Estimated Financial Sanction Date	Total Estimated Cost	Proc. Method	Item Name	Item Description	Item Quantity	Item Estimated Cost Per Unit
											Direct Turbidity Meter	ppm FLAME SYSTEM : LPG & Oil-free dry ai DETECTOR : Photodiode Measurement cycle : approx. 9 seconds  Display : LCD-display  Optics : temperature-compensated LED and photosensor amplifier in water protected  sample chamber, infrared light  Range : T1: 0.2 -2 NTU T2: 2 -20 NTU T3: 20 -200 NTU T4: 200 -2000 NTU Resolution : T1: 0.1 NTU T2: 0.1 NTU T3: 1 NTU T4: 1 NTU Accuracy: T1: +/-0.2 NTU T2: + / -1 NTU T3: + / -5 NTU T4: + / -50 NTU Keypad : 3 key polycarbonate film, splash proof Power supply : 9 V powerpack Auto-OFF: automatic switch-off Housing : ABS Dimensions : 190 x 110 x 55 mm W x D x H Weight : approx. 0.4 kg basic unit Ambient conditions : Temperature: 0 -40 °C Rel. humidity : 30 -90% rel. Quantity Required:01	1	70,000.00
											. BOD OXIDIRECT COMPLETE SYSTEM	Measuring principals : Manometric; mercury-free; electronic pressure sensor Measuring ranges [mg/l]	1	240,000.00

**PP Details**

Package Code	Package Name	Description	Item Category	Item Sub Category	Activity Name	Is Proprietary	Through DGS & D	Estimated Financial Sanction Date	Total Estimated Cost	Proc. Method	Item Name	Item Description	Item Quantity	Item Estimated Cost Per Unit
TEQIP-II/PB/PB1G02/16	CBE-Pollution control & abatement lab	Performing the experiments for UG students	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/04/2013	685,000.00	Shopping	Brookfield Digital Viscometer LVDVII+PRO	O2]: 0 -40, 0 -80, 0 -200, 0 -400, 0 -800, 0 -2000, 0 -4000 mg/l Accuracy* : 0.5 % full scale at 20°C Result display : BOD [mg/l]; 4 -digits; 7 - segment LED Measurement parameter display: BOD -range, volume, duration, time of measurement Measurement period: User-able, between 1 and 28 days Auto result storage : Up to 28 results, depending on measurement period Storage interval : {a} hourly 1 Day {b} every 2 hours 2 Days {c} Daily 3-28 days Automatic Start function: - after temp. equalization of sample, -Can be switched off Power supply : 3 alkaline-manganese Battery life : 1 year normal use as BOD5 meter -max. one reading a day; early warning before battery fails Interface : RS 232 for printer or PC connection Clock: Real-time clock Protection : class IP 54 sensor head Housing : ABS Approval certificate : CE	1	335,000.00

**PP Details**

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											Top Loading Balance	Repeatability : +/-0.2% Capacity:320 gms Accuracy:0.001 g Pan size:100	1	35,000.00
											CheckitDirect COD VARIO with reagents	With a measuring range from 0 to 15,000 mg/l O2, Two LEDs light sources with long-term stability ?1 = 605 nm; ?2 = 430 nm, according to ISO 15705:2002,a waterproof sample chamber, a large digital display, and the user-friendly keypad Should Includes: =====	1	150,000.00
											Handheld Dissolved Oxygen Meter	1 X The COD Photometer CheckitDirect 1 X The COD reactor RD125 1 X Set Pack of 25Nos. of Vial tests for the range 0-150 mg/l 1 X Set Pack of 25Nos. of Vial tests for the range 10-1500 mg/l 1 X Stand for vials. 1 X Instruction manual Specifications: AC adapter : Uses an exclusive adapter Printer output * : Printer output RS-232C interface* Communication method : start/stop transmission Baud rate : 9,600 bps Character Length : 8 bit Parity : None	1	165,000.00
TEQIP-II/PB/PB1G02/17	CBE-Process Technology lab	Performing experiments on Lab.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/04/2013	85,000.00	Shopping	ROTAP SIEVE SHAKER	The rotap sieve shaker reproduces the circular and tapping motion given to test sieves in hand sieving. The uniform, mechanical action ensures accurate and	1	55,000.00



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											Refractometer	dependable test. Using the regular height 20-cm diameter sieves, one sample can be tested on a series of six sieves of different openings, all with one operation of machine. The Rotap Sieve Shaker is simple and durably constructed and is run by a FHP motor. The running parts operate in oil. The machine is easily installed. No special foundation is required. Test Sieves are supplied at extra cost. A time switch from 0 to 60 minutes is provided Measurement range: nd1.3000 to 1.7000 abbe refractometer is a reliable instrument for accurate measurement of indices of refraction of transparent liquids, solutions and solids. It can also be used for measurement of dispersion and measurement of percentage of sugar in sugar solutions.	1	30,000.00
TEQIP-II/PB/PB1G02/18	CBE-Software	Analysis the experimental result of kinetics and heat transfer lab	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	Yes	No	01/04/2013	375,000.00	Direct Contract	Software for Multiphysics	Modules of CFD,Chemical Reaction engg,Heat Transfer,optimization Tool,Microfluid	1	375,000.00
TEQIP-II/PB/PB1G02/19	CBE-Biochemistry	Performing the experiments in lab for UG students	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	08/09/2012	543,000.00	Shopping	Digital Spectrophotometer	Microprocessor Controller Based Visible Spectrophotometer. With two position sample holder Range 340-960 nm with	1	55,000.00

**PP Details**

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											Biotech Chromatography Cabinet Teakwood	facility for automatic concentration % Transmission and D.O. measurements. Wave length resolution 5 nm 3 digit LED Display with round tubes. cabinet is made of seasoned wood. All internal surfaces are heavily coated with wax to make these resistant to most of solvents. Tight closing is with special clamp, rubber gaskets provide air tightening the cabinet has glass windows on both sides. includes stainless steel through and glass rods. Research Grade cabinet size – 24" x 12" x 24"	1	9,000.00
											LAMINAR AIR FLOW CABINET	To provide clean air. Fitted with HEPA filters, Prefilters. Its basic construction material is 18 mm plywood board. Back, Exterior surfaces are covered with sunmica. Fitted with 1/4 HP electric motor. WITH STURDY STEEL STAND. Equipped with (a) STAINLESS STEEL TABLE TOP, (b) TRANSPARENT FRONT DOOR, (c) STANDARD ILLUMINATION INSIDE, (d) BUILT-IN GERMICIDAL (UV) LIGHT , (e) TRANSPARENT FRONT DOOR, (f) COCK FOR GAS-AIR-VACUUM	1	55,000.00
											Column for chromatography with Teflon stop cock 300mm with stop cock	Column for chromatography with Teflon stop cock 300mm with stop cock	15	300.00

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											Digital Micrometer	Micrometer Screw Gauge 0-25 mm	1	10,000.00
											Vertical Autoclave	The inner and outer chamber is made of high – grade Stainless steel sheet ( ss304) the strong and sturdy lid is also made of high grade stainless steel plate. ( ss 304) The unit is fitted with very efficient locking system made of stainless steel bars (ss 304) , steel chrome plate, with paddle lifting device . supplied complete with SS basket . the unit is fitted with safety valve , pressure release valve, water level indicator, cord and plug . To operate on 220/230 volts , 50 Hz AC supply. Working Pressure The pressure inside the chamber is variable from 5 psi to 20 psi. but the normal recommended pressure for sterilization process is 1.2 kgf/cm2 g( 15 psi – 17 psi) Working Temperature : 121 Deg C Working Pressure : 1.26 Kgf/cm2 (15 psi) Hydro test Pressure : 2.5 kgf/cm2 (35 psi) Technical Specification:Depth (mm) Dia (mm) Volume (ltrs) Price 450 x 250*22	1	100,000.00
											SEED GERMINATOR	Dual walled chambers with interior walls made of Stainless steel. The exterior is made of heavy Mild steel finished with stoving enamel. One chamber with temperature range from 5°C – 50°C and the other with ambient to	1	200,000.00

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												50°C. Temperature in both is controlled by DIGITAL TEMPERATURE CONTROLLER cum INDICATOR in variation of + 1°C or better. Each chamber has a Stainless Steel water tank with heating elements to create humidity. Humidity is controlled by Digital Humidity Controller from 55% - 95%. Each chamber has 14 trays. Works on 220 / 230 V AC. Inner chamber size: 555 x 910 x 605 mm.		
											PAPER (PROTEIN) ELECTROPHORESIS UNIT	For 6 Paper strips. Electrode assembly, with paper supporting rod	1	9,500.00
											Microprocessor Based WATER & SOIL ANALYSIS	Lab as well as field kit. Battery or mains operated. Models for Eight parameters. For measurement of pH, Conductivity, ORP, TDS, Salinity, DO, Temperature & Turbidity. 16x2 bold alphanumeric LCD Display. Rechargeable battery cum mains operated. With all accessories. Inbuilt battery charger. Storage capacity upto 700 samples. External printer attachment facility available & fitted in briefcase.	1	50,000.00
											Dot ELISA Kit	20 Tests	5	7,000.00
											WATER DISTILLATION APPARATUS	Compact space saving design, highly efficient. Table top. Press-fit condenser and boiling chamber - easily openable for daily cleaning. Supplied	1	15,000.00

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TEQIP-II/PB/PB1G02/20	CBE-Microbiology and Industrial Microbiology	Performing experiments for UG students	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	08/09/2012	498,500.00	Shopping		with all accessories required for working. Water flow rate meter to accurately control water input. Distilled water is free from pyrogens and dissolved salts, clear, colourless, odourless. Output: 4 Ltrs/ Hour. (Size. 20 x 40 cm) 3.0 KW		
											Biotech Micro Imaging System with Trinocular Co-Axial Research Video Projection Microscope Vision plus – 5000 vpm	Specification:Four Achromatic DIN-SP Objectives : 4x, 10x, 40x (SL) & 100x oil (SL) Two paired extra W.F. Eye Piece : 10x & 15x. Imported 24 Bit colour high resolution CCD camera 1/3 inch charged coupled chip with interline transfer 470 TV lines resolution C-Mount ready, composite-S video inputs 14" High resolution colour monitor/television.	1	100,000.00
											Bacteriological water testing kit with chemicals	Bacteriological water testing kit with chemicals	1	7,500.00
											Precision Ultrathin Rotary Microtome	A.O. Spencer type (Model 820) it is designed for perfect and accurate result in serial sectioning. Technical Features – a) Total feed 1-50 micros in steps of 1 micron. b) Excursion feed 28 mm. c) Size 36 x 35 cm wt. d) Adjustable knife holder. Accessories – Supplied one rotary knife 120 mm with back and handle – 3 nos objective holders' one oil-cane, and one sharpening hone complete.	1	25,000.00
											Micro Photographic equipment Digital complete	Sony Equipment	1	35,000.00

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											digital water Bath Incubator shakers	Thermostatically controlled with temp range ambient to 90°C with hydraulic capillary tube thermostat continuous variable speed self cooked motor with speed controller 200 RPM. Working area 20" x 15" x 9" complete with stainless steel tray. with microprocessor PID based controller with digital temp control	1	50,000.00
											PCR Kit work station	PCR Kit work station	1	55,000.00
											Laboratory Monocular Microscopes – Inclinable	(Magnification 100x – 1000x) standard set complete with widefield eyepieces NWF10x, Hard anti-reflection coated colour coded Parfocal Achromatic objectives 10x, 40x & 100x (spring, oil imm.), attachable graduated mechanical stage (120x125mm) with convenient adjustment for manipulation of slides & plano-concave mirror in adjustable fork mount. Sub-stage Abbe Condenser (N.A. 1.25) focusable with rack and pinion fitted with an iris diaphragm & filter holder (complete set in thermocole packing.)	1	15,500.00
											Nested PCR Teaching Kit	Nested PCR Teaching Kit	5	13,000.00
											Circulating Water Bath	Temp range = -10 - 100°C Temp control = PID + Temp stability = +/- 0.03°C Display = Dual 7 Segment LED Heater capacity = 2000 watts Cooling capacity = 320watts Pump flow rate = 12.5 ltrs/min Bath volume = 5 lts Bath opening W x L / D =	1	110,000.00

**PP Details**

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											EDU-Still CE Certified Water Distillation Unit	13 cms x12 cms /15 cms Abundant Output. The still provides, 4 Litres/hr. of distilled water produced through a power input of 3 KW by a Chromium Plated heater housed in horizontal Borosilicate Glass Boiler (Pyrex Brand Borosilicate Glass). Distilled output is cool ensured by a high efficiency condenser. Temperature of distillate 25C – 40C tested for ambient room temperature of 30 C Provision for wall mounting All units carry CE marking. Distillate Quality Ideal for general Laboratory use – capable of producing pyrogen free water. Specification : Dimension : 50 cm W x 15 cmD x 45 cm H Weight : 6 kg approx Electrical : 220/240 V ,50/60 Hz , Single phase , Power : 3 k w Heater Water supply : Min . flow rate 1 ltrs/min Min Pressure : 3.p.s. l ( 0.2 x 105NM )	1	35,500.00
TEQIP-II/PB/PB1G02/21	CBE-Biochemical Engineering	Performing the experiments for UG students	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/04/2013	728,900.00	Shopping	Digital Dissolved Oxygen meter	Digital display upto 3 points with gold/silver D.O probe	1	9,300.00
											DIGITAL COLONY COUNTER	4 digit LED display Range 0-9999	1	13,000.00
											AUTO BIOCHEMISTRY ANALYSER	For End point, Kinetic, Fixed Point Multi Standard and coagulation test. Quartz flowcell system Built-in thermal printer with graphic Capability. Upto 250 test	1	135,600.00

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											ANALYTICAL BALANCE	items, 240x128 LCD display, peltier controlled thermostat, open reagent system, ? Motorized internal calibration. ? ISO GLP compliance ? Multiple weighing units ? Standard bi-directional RS-232 interface ? Polyfunction: % weighing, counting, fill mode, GSM etc. ? Backlight LCD graphical display ? Capacity Tracking indication. ? Density determination kit (optional)	2	45,500.00
											Tray Drier	Capacity : 60g Accuracy : 0.0001g Specification:Temp. Range : 50 OC. to 250 OC. Temp. Control : Digital Temp. controller Inner Chamber : Mild Steel / Stainless Steel. CAPACITY  S.S. 24 Tray Dryer  M.S Stand Trolley to Accommodate 24 Trays	1	200,000.00
											Universal Centrifuge	Aluminium Tray : 18 SWG. 16" x 32" x 1 1/4" To centrifuge molecular mixtures to separate	1	190,000.00



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											Orbital shaker	according to their density gradients.  RPM Max. = 14000 RCF Max = 19174 x g To provide ideal conditions for liquid media based growth.  SPEED = 50 – 300 rpm Accessories = OS –A platform –flat OS –B platform -250ml x 6 OS –C platform -100ml x 12 OS –D platform with gaurds.	1	90,000.00
TEQIP-II/PB/PB1G02/22	MEC-Computer Aided Design	New PG programme	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	Yes	No	09/09/2012	400,000.00	Direct Contract	Solid Works 2012	SolidWorks 2012 or newer version design software and additional NC code generation module- for 25 or more users	1	400,000.00
TEQIP-II/PB/PB1G02/23	MEC-Computer Aided Manufacturing	CATIA Software is commonly available in all educational institutes. The software is used for the design particularly surface modeling. If it is purchased, the lab will be modernized in a way to cater the future need of the students from the employability point of view.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	Yes	No	09/10/2012	1,250,000.00	Direct Contract	CATIA V6 or newer version	CATIA V6 or newer version Design S/W for 10 Users	1	1,250,000.00
TEQIP-II/PB/PB1G02/25	MEC-TOM	For conducting UG experiments	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	09/10/2012	100,000.00	Shopping	Appratus for balancing of mass	Precision shaft mounted in ball bearings to a study frame. Frame is hung by chains. Calibrated weight - 8 nos, A small motor to rotate the shaft - 1/6 HP	1	30,000.00
											Appratus for the determination of gear train ratio of compound gear trains & epicyclic gear train	Compound Gear Train Set up is mounted on 500 (L) x 400(W) x 300(H) rugged steel platform with housing. Epicyclic Gear train	1	50,000.00

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TEQIP-II/PB/PB1G02/26	MEC-Heat Transfer	For conducting UG experiments	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	04/04/2013	270,000.00	Shopping	Appratus to determine coefficient of friction for a belt –pulley material combination	setup with housing size is 350(L) x 400(W) x 350(H) frame. 125 watts, Foot mounted, S4 AC/DC motor coupled with setups. 0 – 1.0 HP capacity variac to control the motor speed with RPM Indicator (4digit). Wall mounted Variable angle of lap. Flat, round and vee belts.	1	20,000.00
											wise and Film wise Condensation Apparatus	To determine heat transfer coefficient for wise and Film wise Condensation	1	85,000.00
											Critical Heat Flux Apparatus	For plotting pool boiling curves for water and to determine its critical point	1	60,000.00
											Fluidized Bed Apparatus	To determine heat transfer coefficient of the fluidized bed	1	125,000.00
TEQIP-II/PB/PB1G02/27	MEC-Refrigeration & Air Conditioning	For conducting UG experiments	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	04/04/2013	55,000.00	Shopping	Cut section details of mechanical refrigerators systems	.Hermetically sealed Compressor 2. Condensor 3. Evaporator 4. Capillary tube 5. Solenoid valve 6. Thermostatic expansion valve 7. Automatic expansion valves 8 Refrigerant flowmeter 9. Accumulator 10 Drier 11 LP/HP cutouts	1	55,000.00
TEQIP-II/PB/PB1G02/28	MEC-Metallurgy	For conducting UG experiments	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	04/10/2012	550,000.00	Shopping	Double disk polishing Machine with abrasive paste for mirror finish (soft to harder material)	Disc Diameter : 8 inch each Motor Capacity : ½ Hp each Supply : 15 Amps, 230V, Single phase	1	300,000.00

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TEQIP-II/PB/PB1G02/29	MEC-Automobile	For conducting UG experiment	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	04/04/2013	29,100.00	Shopping	Metallographic specimen mounting press	Specimen Pressing Size: Ø 30x15mm Heater Capacity: 650W 220V Adjustable Temperature Range: 0-400°C Power: 15% 220V 50Hz voltage fluctuation less than + 15% Overall Dimensions: 340mm X 270mm X 400mm Specimen leveler Chemical used for molding Like Acrylic, epoxy.. etc Sample releasing chemical	1	250,000.00
											Spark Plug Cleaner and Tester	- Suitable for 14 mm and 18 mm plug types. - Solid state ignition system - Cleaning by dry-abrasive air blast	1	16,000.00
											Piston Ring Compressor	- Install piston of 75/100 mm - Fine tooth ratcheting lock Operation by arm turning	1	600.00
											Radiator Cap Testing Equipment	Test For Wear, Defects and Leakage Gauge Measurement (Approx. 30 psi in Colour Coded Increments) With Air Pump Hope Pipe Measurement Attachments to test 1" Deep Neck ¾" Deep Neck workable to 32-55 mm	1	12,000.00
											Ring Expander	Mitutoyo make (0-25mm Range)	1	500.00
TEQIP-II/PB/PB1G02/30	MEC-Metrology	For conducting experiments	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	04/05/2013	10,000.00	Shopping	Digital Micrometer	Mitutoyo make (0-25mm Range)	1	10,000.00
TEQIP-II/PB/PB1G02/31	MEC-CFD	For conducting experiments	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	Yes	No	08/09/2012	420,000.00	Direct Contract	Software(ANSYS V14.0 or newer	V 14.0 or newer version	1	420,000.00

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Package Code	Package Name	Description	Item Category	Item Sub Category	Activity Name	Is Proprietary	Through DGS & D	Estimated Financial Sanction Date	Total Estimated Cost	Proc. Method	Item Name	Item Description	Item Quantity	Item Estimated Cost Per Unit
TEQIP-II/PB/PB1G02/32	MEC--Thermal Energy	For establishing solar energy lab	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/04/2013	500,000.00	Shopping	version)	including Modules Ansys Multiphysics, Ansys Fluent Full Capability Solver, Ansys CFX Full Capability Solver, Ansys Auto Dyn, Ansys Workbench, Ansys Meshing Tools including ICEM CFD, MCAD Geometry Interface		
											Data Logger	<ul style="list-style-type: none"> <li>Should be able to sense and store temperature (with various types of thermocouples), pressure and humidity data</li> <li>48 channels and extendable up to 90-100 number of channels</li> <li>Data acquisition system should have 18 bit resolution and built in display</li> <li>Robust, real time &amp; stand alone, low power consumption</li> <li>Capability of remote monitoring &amp; control using various communication methods as RS232, RS485, GSM, Spread Spectrum</li> <li>With Dual Channel Isolation Technology</li> </ul>	1	390,000.00
											Pyranometer (with shading ring and single channel data logger)	Intensity rage: 0 to 1500 W/m2 Wavelength range: 0.3 to 3 micrometer Single channel data logger having LCD display, real time clock calendar, interfacing with PC and printer, memory module, serial reader, sufficient battery back- up, data logging software. Along with related accessories.	1	110,000.00

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TEQIP-II/PB/PB1G02/33	LIB-RFID Library Management System	Library security and modernization of current facility	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	10/10/2012	1,400,000.00	NCB	RFID Library Management System	. RFID Tag inlays with add-on adhesive label and printed Logo :Tag features; Anti-collision: for Multi read Anti-theft: security bit, Memory capacity: 96 bits, Class 1 Gen 2 tags 2. Staff Station for book registration, issue and return: USB based Desktop Reader/Writer Book Box: Includes an RFID reader integrated with a desktop system-touchscreen & printer 8. Gate Security System: Two pedestal antenna Read range: 1 m 9. RFID Library Patron Card: White PVC RFID card for students- preprinted with institute logo and student ID	1	1,400,000.00
TEQIP-II/PB/PB1G02/34	LIB-e Journal	For UG and PG programme	Goods	Books & Learning Resources	Infrastructure Improvement for teaching, training and learning facilities	No	No	10/10/2012	1,000,000.00	Shopping	E-Resources	1. IEEE 2. WILEY-Blackwell 3. McGraw Hill 4. J-Gate 5. Elsevier 6. ASTM Digital Library (DL) online Version 7. ASMe	1	1,000,000.00
TEQIP-II/PB/PB1G02/35	LIB-E-Learning resources	For use of UG & PG college students	Goods	Books & Learning Resources	Infrastructure Improvement for teaching, training and learning facilities	No	No	10/05/2013	1,000,000.00	Shopping	E-Resources-II	1. IEEE 2. WILEY-Blackwell 3. McGraw Hill 4. J-Gate 5. Elsevier 6. ASTM Digital Library (DL) online Version 7. ASMe	1	1,000,000.00
TEQIP-II/PB/PB1G02/36	LIB-BOOKS	For use of UG & PG college students	Goods	Books & Learning Resources	Infrastructure Improvement for teaching, training and learning facilities	No	No	10/10/2012	984,150.00	Shopping	Academic Press	Comp. Sc/IT, Electronics	20	1,000.00

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											Addison Wesley India	Mech Comp. Sc/IT, Electronics	40	1,000.00
											Affiliated East West Press	Mech Chem, Mech.	15	200.00
											ASM Press	Biotechnology, Mech.	10	1,000.00
											Blackwell Publishing	Biotechnology	15	1,000.00
											Bohem Press	Mech	2	2,000.00
											BPB	Comp. Sc/IT	25	500.00
											Butterworth	Bio. Tech., Mech.	1	2,000.00
											Cambridge University Press	Bio. Tech., Mech., Electronics	85	700.00
											CBS Publishers	Bio. Tech., Mech., Chem	30	500.00
											Cengage	Comp. Sc/IT, Electronics	15	1,000.00
											Chapman	Bio. Tech.,	1	900.00
											CRC / Taylor & Francis	Comp. Sc/IT, Mech	2	2,000.00
											Dhanpatrai	Bio. Tech., Mech	35	700.00
											ELBS	Mech	1	4,750.00
											Elsevier	Bio. Tech., Mech	20	2,025.00
											Galgotia	Comp. Sc/IT	1	2,500.00
											Himalaya	Applied	20	500.00
											I. K International	Applied, Bio. Tech.,	24	490.00
											International Book House	Bio. Tech., Chem	10	597.00
											Jaico	Electronics	1	2,180.00
											JW(Wiley India)	Chem., Comp. Sc/IT Electronics Mech Applied	40	2,000.00
											Kalyani Publishers	Bio. Tech., Applied	20	300.00
											Khanna Publishers	Chem., Electronics, Mech	50	430.00
											Laxmi publication	Bio. Tech., Applied, Comp. Sc/IT, Electronics	53	230.00
											Longman	Chem., Mech	10	2,005.00
											Macmillan W. H. Freeman/Bedford:	Bio. Tech, Chem, Comp. Sc/IT, Mech	39	900.00
											Marcel Dekker	Bio. Tech, Mech	10	1,000.00
											McGraw -Hill	Bio. Tech. Chem., Comp. Sc/IT, Electronics, Mech	115	1,000.00
											Microsoft	Comp. Sc/IT	5	700.00
											Mir	Mech	10	500.00

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											Narosa	Comp. Sc/IT	5	800.00
											New Age International	Bio. Tech. Chem., Comp. Sc/IT, Electronics, Mech	100	475.00
											Oxford University Press	Bio. Tech., Mech	10	2,400.00
											Pearson	Bio. Tech., Comp. Sc/IT, Electronics, Mech	65	1,000.00
											PHI	Bio. Tech. Chem., Comp. Sc/IT, Electronics, Mech, Applied	70	750.00
											S. Chand	Bio. Tech., Electronics, Mech	100	250.00
											S. K. Kataria	Bio. Tech. Chem.,Comp. Sc/IT, Electronics, Mech, Applied	45	500.00
											Salaria	Comp. Sc/IT	35	250.00
											Shankar's	Bio. Tech.	70	300.00
											Springer International	Bio. Tech. Comp. Sc/IT, Mech,	20	1,000.00
											Surjeet	Applied	10	100.00
											Tata McGraw -Hill	Bio. Tech. Chem.,Comp. Sc/IT, Electronics, Mech,	70	1,000.00
											Vikas	Bio. Tech., Applied	30	300.00
											Viva Books	Bio. Tech.	10	250.00
TEQIP-II/PB/PB1G02/37	WS-Foundary and Sheet Metal Shop	Required for training purpose to B.Tech UG students	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	10/10/2012	277,000.00	Shopping				
											Mechanical Power Press capacity	Capacity 10 ton type C Frame Size of bed 12x18" Bed to ram bottom 9" Size of bore in bed 4: Stroke 2-1/2" No. of strokes per mintue 1" Power required (1440) RPM 2HP	1	130,000.00
											Grooving Machine	Grooving m/c with 380 clearence with crimping rollers 1.Capacity upto 18gauge  2.Throat 380mm  3. With Standard accessories crimping roller	1	70,000.00

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											Jig Saw / Shear Electrically operated	and other type of roller Max. Cutting Thickness in steel upto 400N/mm,1.6 mm2 In aluminium 200N/mm 2.2mm2 Power input 500 W No-load storke rate 5000spm GSC 160	1	30,000.00
											Wood Carving tool Kit	Wood Carving tool Kit	1	2,000.00
											Nibbler M/C	Max. Cutting Thickness in steel upto 400N/mm,2.0 mm2 In aluminium 200N/mm 2.5mm2 Power input 500 W No-load storke rate 2400spm Cutting track width 6mm Smallest radius 3mm GNA2.0	1	45,000.00
TEQIP-II/PB/PB1G02/38	WS-Welding-Foundary & Smithy Shop	Training for UG students	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	10/10/2012	1,284,000.00	NCB				
											Marking table	40"x24 "	1	45,000.00
											Vernier Micrometer	least count 0.001, Range 0 - 150 mm	1	20,000.00
											. Vernier caliper (Digital)	.02 least count, range 0-300 mm	1	16,000.00
											Angle plate (Adjustable slotted)	150x500 mm	1	3,000.00
											Muffle Furnace	i)Produced temp. 1500 degree cel. With Micro Processor controll	1	200,000.00
											Seam Welding machine all standard accessories	Pneumatic sticking seam welding machine 415 Volt, 50KUA, Fitted with Electronics Pannel, Water Cooled, Transformers control variable head	1	300,000.00
											Pneumatic sand moulding machine with compressor	Jolt Capcity (Kg)= 280 squeeze forces (kgs)=5000 Pattern Drawn=20 Table size(mm)=750*535 Compressor=10hp motor	2	300,000.00
											Sand Aerator mobile type	Size=400mm width belt Motor=2HP	1	80,000.00



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TEQIP-II/PB/PB1G02/39	LIB-E Books	Enhance the on line teaching facility	Goods	Books & Learning Resources	Infrastructure Improvement for teaching, training and learning facilities	No	No	04/04/2013	702,000.00	Shopping	Shatter Index Tester	Drum=2Nos Aerator blade=SS angles Drive+Pulley and V belt Pillir,top housing bracket,Anvil,12.5mm sieve,lid,pan	1	20,000.00
											IEEE Digital Library	Computer Sci & Engg, Electronic & Comm Engg Information tech	40	3,000.00
											Wiley Blackwell	Computer Sci & Engg, Electronic & Comm Engg Information tech, Bio Technology, Chemical Engg, Mechanical Engg	40	3,000.00
											McGraw Hill	Information tech, Bio Technology, Chemical Engg, Mechanical Engg	33	3,000.00
											Springer	Information tech, Bio Technology, Chemical Engg, Mechanical Engg	27	3,000.00
											Elsevier	Information tech, Bio Technology, Chemical Engg, Mechanical Engg	33	3,000.00
											ASME Cambridge University Press	Mechanical Engg Information tech, Bio Technology, Chemical Engg, Mechanical Engg	33 28	3,000.00 3,000.00
TEQIP-II/PB/PB1G02/40	MC-Medical Centre	Facility for students and campus residents	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	10/12/2012	123,850.00	Shopping	ECG MACHINE	)TFT color LCD high resolution of 480270 and design of widal scr. In prop. Of 16:9 2)Touch screen and soft keyboard control. 3)Simuletenus 12 leads display. 4)ac filter baseline filter . Auto analysis and auto inteqretation. 5)Provide more than 10 printing modes 6)more than 100 cases in internal memory. Specifications.	1	40,000.00

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											Portable oxygen cylinder	1)safty type : class1,type CF applied, part which have defibrillation-proof applied part. 2)lead:standred 12 leads. )High performance –upto 4 times lighter than ordinary cylinder,increased gasdelivry- cost effective and easily transportable 2)excellent corrosion resistance.	1	9,350.00
											Medical pulse oxymetere	1)display :LCD display, low battry indicator. 2)weight:60gms,	1	5,000.00
											Portable auto clave single drum	)Design to to meet the requirements of small dispencries, simple to oprate and economical to use, made of thick aluminium 2)electric heats 3 kw capacity	1	20,000.00
											Instrument sterlizer	)a product of choice in medical field. 2)semules shell &level oprated 3)lid fitted with full proof machenism 4)control excessive steam escape. 5)condensate with in the shell. 6)high adoptable of your growing need. 7)sizes:510*200*150mm	1	5,000.00
											Blood gulucose monitoring system	No- coding Strip eject Small blood sample Rapid result Large screen size	1	2,500.00
											Elec. & manual needle& syring destroyed)dist. Equipment for safe&quick disposal.	1)dist. Equipment for safe&quick disposal. 2)needle burnt by the electrode and syringedestroyed by cuttle. 3)burn max. 2 needles per minute	1	5,000.00

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TEQIP-II/PB/PB1G02/41	Civil-Sewage Treatment Plant	Clean water and reuse for irrigation	Civil Works	Extension of Buildings	Infrastructure Improvement for teaching, training and learning facilities	No	No	10/10/2012	3,000,000.00	NCB	Digital weighting scale	4)fuse protection 2amp. 3/4" glass cortage type. Capacity=0.5to150kg -size=320*62mm Net wight=2.90kg	1	1,000.00
											Sthethoscope bell type	-can listen sounds clearly -plastic bell double tube light in weight	2	3,000.00
											Bp apparatus stand model	Movable, compact, - easy to use	1	10,000.00
											Digital BP apparatus	Fully automatic	1	4,000.00
											X –ray view box	Elegent plastic body	1	5,000.00
											Medical examination table	Legs fitted with on pvc pipes Stainless steel fram work	1	5,000.00
											Patient stool	Four legs fitted with pvc stands	1	2,000.00
											Zeptor PBG 901 digital thermometer	Quick result in 5 sec Easy to use	1	4,000.00
TEQIP-II/PB/PB1G02/42	Civil-Refurbishment	Increase the facility for students and faculty	Civil Works	Refurbishment works	Infrastructure Improvement for teaching, training and learning facilities	No	No	10/12/2012	1,450,000.00	Shopping	Sewage Treatment Plant	Scrren Chamber Fat/oil & Grease trap Sewage collection sump Saff reactor secondary tube settler activated ccarbon filter Civil and electrical work interconnection by laying sewer line	1	3,000,000.00
											Aluminium Partition	Control Lab Biochemistry/Microbiology lab Hardware & Computer Centre (Area approximate 2500 sq.ft)	1	850,000.00
											False ceiling in Hardware lab	IT softawre lab	1	270,000.00
TEQIP-II/PB/PB1G02/43	Civil-Repair	repair of urinal and cleaning system	Civil Works	Repair works	Infrastructure Improvement for teaching, training and learning facilities	No	No	10/10/2012	550,000.00	Shopping	Flooring Hardware and softawre lab	vitrified tiles flooring	1	330,000.00
											Urinal system and repair	Urinal,wash Basin, Ventillator and renovation	1	550,000.00

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TEQIP-II/PB/PB1G02/46	AS-Applied Physics Lab	Increase the facility for undergraduate programme	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/09/2012	223,000.00	Shopping		and upgradation in all the department		
											He-Ne Laser	Powe 5mW	2	15,000.00
											Diffraction Grating	LPI 15000	4	1,000.00
											Double Slit	Double slit	4	1,000.00
											Basic Fiber Optic Trainer	Transmitter : Fiber optics LED Peak wavelength of emission 660nm red visible (SFH756V) Receiver : Fiber optic photo detector PIN photo diode with Responsivity of 0.3 μA/μW (SFH 250V) Analog Bandwidth : 1 MHz  On-board signal generator Sine wave and TTL square wave • Frequency range : 1Hz ~ 10Hz, 10Hz ~ 100Hz, 100Hz ~ 1 K z, 1KHz ~ 10 KHz  • Amplitude : 0 ~ 4Vpp (except square)  Reference pulse : 660 KHz, 3.2V  Fiber optic cable  • Type : Plastic optical cable, step index, multimode  • Core refractive index-n1 : 1.492  • Clad refractive index-n2 : 1.406  • Numerical aperture : 0.5  • Acceptance angle : 60°	1	50,000.00

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TEQIP-II/PB/PB1G02/47	Computer Peripherals	Enhance the computational facility in various departments	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/09/2012	14,008,000.00	NCB	Optical Microscope	• Fiber diameter : 1000 microns Magnification :1000x Resolving power :0.5 micrometers	2	25,000.00
											kit to find phase and group velocity of Ultrasonics in liquids with PC interface	Ultrasonics generator, Ultrasonics pick-up coil, glass cell (150x55x100 mm), Insulating support, Optical profile bench, slide mount (h 30, 80 mm), Swinging arm,Support rod,Oscilloscope, @0MHz, 2 channels,Connecting cord	1	60,000.00
											Milikan Experiment Apparatus	Milikan Apparatus, Power Supply 0-.600VDC, Connecting cords,	1	25,000.00
											Desktop PC	CPU Intel Core i7 – 2600, 3.4 GHz (or better) Memory 2 GB 1066 MHz DDR3 RAM (or better) + 2 GB additional Hard Disk 320 GB HDD (or better) Monitor 47cm(18.5 in) LED / TFT (or better) Keyboard 104 keys Mouse Optical DVD ROM Drive 8x or better Networking 10 / 100 /1000 on board integrated Network port Warranty onsite 3 years OS Windows 7 Prof.	201	42,000.00
											Laptop	Laptop Processor Mobile Intel core i-7, 2620 M, 2.7 GHz with 4 MB L3 Cache or better Memory 2 GB DDR-3 – 1333 Ram or better HDD 500GB, 7200 rpm or higher Display 13.3 " (33.8 cm) or above	40	63,500.00

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TEQIP-II/PB/PB1G02/48	AS-Software	To solve various numerical problems	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	Yes	No	10/10/2012	600,000.00	Direct Contract	Laser Printer	Resolution 1280 x 768 WXGA (inbuilt webcam ) or higher DVD Writer Integrated 8x DVD writer OS Windows 7 Prof. Resolution(in dpi): Mono 600x600, Paper Size: A4, Print Speed in ppm:14, Port:1 USB, Network Card 10/100:NA, Duplexing:NA	31	15,000.00
											Scanner	Resolution(in dpi) 1200x1200 (or Better) Flat Bed Size A4 (or Better) Document SizeA4 (or Better)	39	4,000.00
											Colour Printer	Internal Memory: 32MB Print resolution: 2400*600dpi	8	25,000.00
											Server	Server Four Processor, Intel Xeon MP E 7530 1.86 GHz or better Memory 16 GB HDD 3 x 300 GB or higher Monitor 17" TFT , Keyboard 101 Keys Mouse Optical Combo 16x10x24 CD R/W and 8x DVD ROM	3	315,000.00
											On-line UPS	3 KVA,for30 minutes backup	24	50,000.00
											UPS	1.5 KVA with 15 minu backup	20	3,000.00
											Mathematica Software	Single user all modules 4 user	1	300,000.00
TEQIP-II/PB/PB1G02/49	MEC-SOM	For conducting UG experiments	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	12/12/2012	276,000.00	Shopping	Computational Software	Gaussian 9 Single user all modules	1	300,000.00
											Electronic Spring Load Testing Machine	Loading Capacity: 50 kgf Force measurement accuracy ±1% Quick and accurate measurement Interchangeable load cells Modulus data for load and	1	110,000.00

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												displacement Optional dot-matrix printer interface Optional RS-232 Computer interface with window based software		
											Attachment for conducting bending test experiment on 100 Ton ENKAY make UTM	An attachment for conducting bending test which should capable of measuring young's modulus having mandrel of varying size for 100 Ton Enkay make machine, along with instructional manual	1	140,000.00
											Column Test Appratus	Column Test Appratus to determine buckling load for (a) fixed ends, (b)fixed and free end (c) fixed and hinged end (d) free ends conditions	1	26,000.00
TEQIP-II/PB/PB1G02/50	CC-Antivirus	To make environment virus free	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	Yes	No	01/02/2013	50,000.00	Direct Contract				
											Anti Virus	McAfee Anti Virus	100	500.00
TEQIP-II/PB/PB1G02/51	CC-Adobe Software	Required for website prepration and projects	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	Yes	No	10/10/2012	100,000.00	Direct Contract				
											Adobe CS Master Collection	Adobe CS Master Collection	2	50,000.00
TEQIP-II/PB/PB1G02/52	CC-Wi-Fi	Students access to internet connectivity	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	10/11/2012	4,500,000.00	NCB				
											Wi-Fi	Wireless Main Controller, switches (Central, Distribution, Edge), Access points, Racks, Jackpanels, LIU, UTP cables, O.F.C (SM,MM), I/Os, Conduit, Patch cords (UTP and Fibre), Installation and configuration of racks, access points, Jack panels, switches etc. Laying of cables (UTP and Fibre) etc., Testing, Documentation, Labeling, Project management. Warranty of five years and RE.	1	3,500,000.00
											Video Conferencing	Camera, codec,microphone array, cables and remote	1	1,000,000.00

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TEQIP-II/PB/PB1G02/53	Inst -Survilence System	Computer security and avoid misuse of internet conectivity	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	12/12/2012	1,240,500.00	NCB		control. Point -to-point . With three year warranty		
											CC TV Cameras and System	DVR 16 CHANNEL WITH LAN PORT SOUND, VGA, TV OUT CAMERA IR 36 LED 6MM LENS 50MTR CAMERA SUPPLY BNC CONNECTORS HARD DISK 1 TB UPS 600 VA INSTALLATION	3	100,000.00
											Appliance to integrate multiple security features	appliances integrate multiple security features like Firewall, VPN, Intrusion Prevention System, Anti-Virus & Anti-Spyware, Anti-Spam, Web Filtering, Layer 7 Visibility & Control, Bandwidth Management, Multiple Link Management, etc.	1	800,500.00
TEQIP-II/PB/PB1G02/54	Electronic items	Official /Adminstrative academic work	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	12/12/2012	520,000.00	Shopping	LED Digital Display	32 inches dispaly and associated system ,PC interface	2	70,000.00
											Three in One printer	Printer,scanner and fax machine	2	25,000.00
											Multi-channel communication system	call identification and fax facility	1	60,000.00
											High speed xerox machine	xerox machine cmatibe with computer .100ppm	2	200,000.00
TEQIP-II/PB/PB1G02/55	FURNITURE-INSTITUTION	For day to day use and to support the equipmens in labs	Goods	Furniture	Infrastructure Improvement for teaching, training and learning facilities	No	No	08/10/2012	4,514,900.00	NCB	Fax Machine	Digital fax machine Line type PSTN/EPABX Printing technology	1	10,000.00
											COMPUTER CHAIR	COMPUTER CHAIR	277	3,000.00
											COMPUTER TABLE	COMPUTER TABLE	211	3,000.00
											LAB STOOL	LAB STOOL	230	450.00
											BOOK ALMIRAH	BOOK ALMIRAH	30	10,000.00
											NOTICE BOARDS	NOTICE BOARDS	13	800.00
											WRITEX COMBINED BOARD	WRITEX COMBINED BOARD	57	4,500.00



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TEQIP-II/PB/PB1G02/59	Computer Lab	Make the environment condition suitable in software lab	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	03/03/2012	325,000.00	Shopping	ALMIRAH	ALMIRAH	28	4,000.00
											STEEL ALMIRAH WITH 4 SLIDING GLASS DOOR WITH LOCKING FACILITY	STEEL ALMIRAH WITH 4 SLIDING GLASS DOOR WITH LOCKING FACILITY	10	6,000.00
											ROSTRUMS	ROSTRUMS	11	2,500.00
											BOOK RACKS	BOOK RACKS	9	10,000.00
											STEEL RACK LARGE	STEEL RACK LARGE	4	15,000.00
											STUDY TABLE	STUDY TABLE	28	12,000.00
											STUDY CHAIR	STUDY CHAIR	72	3,500.00
											BOOK SHELF DOUBLE FACE MAIN	BOOK SHELF DOUBLE FACE MAIN	2	14,000.00
											BOOK SHELF DOUBLE FACE ADDITIONAL	BOOK SHELF DOUBLE FACE ADDITIONAL	4	9,000.00
											REVOLVING STAND	REVOLVING STAND	2	10,000.00
											WOODEN TABLE	WOODEN TABLE	8	10,000.00
											CHAIR WITHOUT ARM	CHAIR WITHOUT ARM	51	2,000.00
											BOOK RACKS (7 SLAB TWO SIDED)	BOOK RACKS (7 SLAB TWO SIDED)	4	10,000.00
											TUTORIAL CHAIR	TUTORIAL CHAIR	30	1,500.00
											OFFICE TABLE 4 X 3	OFFICE TABLE 4 X 3	10	4,000.00
											CUSHIONED CHAIR	CUSHIONED CHAIR	28	3,000.00
											SIDE RACK	SIDE RACK	4	2,000.00
TEQIP-II/PB/PB1G02/60	CC-Software	Record keeping and update the all data of students through on-line	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	Yes	No	12/12/2012	900,000.00	Direct Contract	Blinds/Rolling Curtain	Blinds/Rolling Curtain strip type	40	20,000.00
											Wall fans	Wall fans	80	2,000.00
											Air conditioner	1.5 ton with voltage stablizer eco friendly	10	32,500.00
TEQIP-II/PB/PB1G02/61	Instiute Level-Networking	Networking in the newly established computer facility in the departments	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/01/2013	484,000.00	Shopping	ERP software	Student information management Modules Financial Accounting system Web Kiosk S	1	900,000.00
											External Hard Disk	Capcity 2 TB (external)	1	10,000.00

**PP Details**

Package Code	Package Name	Description	Item Category	Item Sub Category	Activity Name	Is Proprietary	Through DGS & D	Estimated Financial Sanction Date	Total Estimated Cost	Proc. Method	Item Name	Item Description	Item Quantity	Item Estimated Cost Per Unit
											External Hard Disk Drive	Sata External HD Size : 500 GB USB 2.0/3.0 compatible	4	4,500.00
											External CD ROM Drive	External DVD/CD Drive with USB attachment	2	3,000.00
											Networking of CAD	Networking of CAD/CAM Lab, Departmental Computer Center and various faculty offices and Labs with CISCO switch 24 port, patch panel 24 ports, Rack 9U, cat.6 cable 2 rolls Dlink or Digilink 24 IO cat. 6 and other standard accessories	1	150,000.00
											Networking of Information Tech	48 I/O points,structured cabling having two 24 manageable L2 switch, 600 m CAT 6 cable with all accessories	1	150,000.00
											Networking of Physics Lab	Networking of CAD/CAM Lab, Departmental Computer Center and various faculty offices and Labs with CISCO switch 24 port, patch panel 24 ports, Rack 9U, cat.6 cable 2 rolls Dlink or Digilink 24 IO cat. 6 and other standard accessories	1	150,000.00
TEQIP-II/PB/PB1G02/62	Inst -Water Purification System	Pure water for academic and admin area for students and faculty	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	12/12/2012	684,000.00	Shopping				
											Drinking Water Cooler	Self contained drinking water cooler with energy efficient compressor Storage capacity 150L Cooling capacity 150L/hr	7	40,000.00
											Water Cooler	Self contained drinking water cooler with energy efficient compressor Storage capacity 40 L Cooling capacity 40L/hr	2	27,000.00
											UV water purifier system	UV disinfected water purifier system to be attached with drinking water cooler	10	10,000.00

**PP Details**

Package Code	Package Name	Description	Item Category	Item Sub Category	Activity Name	Is Proprietary	Through DGS & D	Estimated Financial Sanction Date	Total Estimated Cost	Proc. Method	Item Name	Item Description	Item Quantity	Item Estimated Cost Per Unit
TEQIP-II/PB/PB1G02/63	CSE-LAN & Hardware lab	Hardware facility for research and local networking	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	12/12/2012	282,000.00	Shopping	Chlorinator	chlorinator system attached with input from main source Input flow rate	1	250,000.00
											Lan Trainer System	lan type:token ring bus modbus csma,cd port rs232 flat panel 4*2 rack	1	130,000.00
											PC hardware trainer	fault panel for parallel and serial smps & vga ,cmo intel dual core	1	152,000.00
TEQIP-II/PB/PB1G02/64	Light and Mobile phone Jammer	For UG/PG/ faculty research work	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	12/08/2013	340,000.00	Shopping	Mobile Jammer	control the mobile network	10	4,000.00
TEQIP-II/PB/PB1G02/67	Teaching aid-Multi Media Projector	teaching aid in the class room for interactive teaching	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	12/12/2012	1,380,000.00	NCB	Lighting with camera	1set of 20 camera	1	300,000.00
											Multimedia Projector	Wireless connectivity Resolution 1024*768 XGA ANSL Lumens 3000	23	60,000.00