

Package Code	Package Name	Justification	Item Category	Item Sub Category	Activity Name
TEQIP-II/CG/CG1G03/1	CHEMISTRY LAB	Equipment / Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/4	CHMISTRY CIVIL WORKS	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Civil Works	Refurbishment works	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/5	PHYSICS LAB	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/8	PHYSICS LAB CIVIL WORK	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Civil Works	Refurbishment works	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/11	Maths Civil Work	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Civil Works	Refurbishment works	Infrastructure Improvement for teaching, training and learning facilities
TEQIP-II/CG/CG1G03/16	TPO CIVIL WORK	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense. .	Civil Works	Refurbishment works	Infrastructure Improvement for teaching, training and learning facilities
TEQIP-II/CG/CG1G03/17	STORE GYM	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/19	CSE COMPUTER LAB	Equipment/ Instruments listed is necessary to perform the experiments in Laboratory.Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/21	CSE CIVIL WORK	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense..	Civil Works	Refurbishment works	Infrastructure Improvement for teaching, training and learning facilities
TEQIP-II/CG/CG1G03/23	CIVIL LAB1	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/24	CIVIL LAB 2	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/25	CIVIL LAB3	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/26	CIVIL LAB 4	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-	CIVIL CIVIL WORK	Equipment/ Instruments listed is	Civil Works	Refurbishment	Infrastructure Improvement for

II/CG/CG1G03/28		necessaEquipment ry to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.		works	teaching, training and learning facilities
TEQIP-II/CG/CG1G03/29	EEE Adv. Elex Lab	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/30	EEE Utilization of Energy Lab	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/31	EEE POWER SYS. SIMU. LAB	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/32	EEE IND. AND POWER ELEX	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/33	EEE AUT. CONT. LAB	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/34	EEE ELECT. CKT LAB	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/35	EEE HIGH VOL. LAB	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/36	EEE MC AND EMBD SYS LAB	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities
TEQIP-II/CG/CG1G03/37	EEE LNR. INT. CKT & APP LAB	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/38	EEE ANLOG ELEX CKT LAB	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/39	EEE AC MACHINE LAB	Equipment/ Instruments listed is necessary to perform the Experiments in laboratory. Thus the Students will be able to understand the Subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/40	EEE EMMI LAB	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/43	EEE CIVIL WORKS	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Civil Works	Refurbishment works	Infrastructure Improvement for teaching, training and learning facilities
TEQIP-II/CG/CG1G03/45	ETE DSP LAB	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities
TEQIP-II/CG/CG1G03/47	ETE BASIC ELEX	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/48	ETE NTK AYA SYNS	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/49	ETE PROG. C LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities
TEQIP-II/CG/CG1G03/50	ETE ANAG ELEX CIRCT	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/51	ETE DIGITAL ELEX CIRT	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/52	ETE LINER INTE CIR LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/54	MECH HMT LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

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TEQIP-II/CG/CG1G03/55	ETE COMMN.STYM LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/56	ETE DIGITAL S. PROCE. LAB	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/57	ETE MICROWAVE ENGG. LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/58	ETE MICROCONTROLLER LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/59	ETE MICROPROCESSOR LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities
TEQIP-II/CG/CG1G03/60	ETE OPTICAL FIBER LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/61	ETE VLSI LAB 1	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities
TEQIP-II/CG/CG1G03/62	ETE VLSI LAB 2	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/67	MECH STM LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-	MECH RAC LAB	Equipment/ Instruments listed is	Goods	Equipment	Infrastructure Improvement for

II/CG/CG1G03/68		necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.			teaching, training and learning facilities

TEQIP-II/CG/CG1G03/71	MECH ROBO LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/73	INST_LIBRARY	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Books & Learning Resources	Infrastructure Improvement for teaching, training and learning facilities
TEQIP-II/CG/CG1G03/75	MECH ICE LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/76	MECH DOM LAB	Equipment/ Instruments listed is necessaryEquipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/77	MECH ECS LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/78	MECH AUTO LAB	Equipment/ Instruments listed is necessaryEquipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/79	MECH MMM LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/80	MECH TDS LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

		students will be able to understand the subject in the true sense.			

TEQIP-II/CG/CG1G03/81	CHEMISTRY LAB 1	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities
TEQIP-II/CG/CG1G03/84	CIVIL LAB 5	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities
TEQIP-II/CG/CG1G03/85	MECH CIVIL WORK	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Civil Works	Refurbishment works	Infrastructure Improvement for teaching, training and learning facilities
TEQIP-II/CG/CG1G03/86	ETE CIVIL WORKS	Equipment/ Instruments listed is necessary Equipment to perform the	Civil Works	Refurbishment works	Infrastructure Improvement for teaching, training and learning facilities

		experiments in laboratory. Thus the students will be able to understand the subject in the true sense.			
TEQIP-II/CG/CG1G03/87	EEE ADVANCE COMMUNICATION	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP- II/CG/CG1G03/104	INST FURNITURE	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

TEQIP-II/CG/CG1G03/105	INST_AC	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities
TEQIP-II/CG/CG1G03/106	INST SOFTWARE	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities

Is Proprietary	Through DGS & D	Estimated Financial Sanction Date	Total Estimated Cost	Proc. Method	Item Name	Item Description	Item Quantity
No	No	30/08/2012	874000.00	Shopping	Autoclave	Fully Automated with Automatic Pressure switch, Digital Temperature indicator Controller, Timer with alarm & Recorder indicator Controller.	01
					Digital Conductivity Meter	micro second to 200mS with 0.1 cell Constant	01
					Digital Nephelometer	Range 0.0 to 5000 mill NTU Accuracy - 0 to 1000 mNTU	01
					Digital Room Thermometer	0 - 100 degree Celcius	01
					Digital TDS Meter	2ppm to 2ppt with 0.1 cell Constant	01
					Digital DO Meter	Do range 0-20ppm Temperature 5 to 45 degree Celcius Accuracy - +/- 2%	01
					Triple Distillation Unit	Capacity - 10 liters All glass	01
					Magnetic Stirrer with Temperature Control	Automatic 100 degree Celcius	01
					pH Meter	Resolution - 0.01pH	01
					Misc. Accessories (Digital Balance. Ice Box, Jar Test,Apparatus, Water Bath, Hot Plate)	Maximum weighing capacity- 200gm Readability - 0.001 gm	01
					Hot Air Oven	Temperature Range- 250 - 350 degree Celcius Double walled with glass wool insulation	01
					Hot Plate	Temperature Controlled energy regulator S.S. top full S.S. body	01
					NPL Certifiedf Burettesf & Pipettes	50 ml, 10 ml	01
					Centrifuge Apparatus	1500 rpm	01
					Suction Pump	1 Hp	01

					Muffel Furnace	1400 digree Celcius Digital temperature indicator & Control	01
					Soxlet Apparatus With Heating Mantle	Maximum surface temperature of hot plates is 2000 digree Celcius Supply voltage 230 V AC 50 HZ	01
					Flame Photometer / Stack Monitoring kit	Potassium 100 - 1 ppm Sodium - 100 - 2 ppm Calcium-300 - 30 ppm Lithium- 25 - 2 ppm Reproducibility +_ 2% & +_ 1 Digit	01
					Digital BOD Incubator	5 to 50 digree Celcius +_ 0.5 digree Celcius Microprocessor based BOD Incubator 83 Lit.	01
					Digital Spectophoto meter	Wavelength Range 340 to 960 nm Accuracy +_ 1nm Source - Tungsten halogen lamp 12 C, 50W	01
					COD Apparatus	Digital Temperature Indicator & Controller	01
No	No	29/09/2012	475000.00	Shopping	Partitioning of lab and staff rooms	Electrical wiring with new Partioning CSE,CIVIL, EEE, ETE Lab, ETE, MECH.	01
					Tiling and Plateform Construction	Tiling of chem. lab with acid resistant tiles and Chemical analyses and water supply lines	01
					Repairing ,Painting & Flooring	Repairing-doors & windows painting & Distempering of labs, Flooring Plastering and concreting for various	01
						jobs	

					Wiring and Electrification	Electrical wiring with new switch boards, power boards , Electrification of CSE, Civil, Mech.	01
No	No	01/08/2012	494700.00	Shopping	Verification of Logic Gates	Input:+5V DC Logic Levels:High(Logic 1) or Low (Logic 0) Dimension:- 345Lx 240 Bx 110H mmINPUT : + 5vDC Logic levels: High(Logic 1)or Low (Logic 0) Dimension : 345L x 240B x 110 H mm	02
					Prism	LEP390001090PRISMS, OPTICALLY WORKED FOR SPECTROMETERS, EQUILATERALTWO FACE POLISHED, 25 X 25mm HEIGHT. (A) Borosilicate Crown Glass 1.51 LEP390001091PRISMS, OPTICALLY WORKED FOR SPECTROMETERS, EQUILATERAL TWO FACE POLISHED, 25 X 25mm HEIGHT (B) Dense Flint Glass Prism 1.62 LEP390001092 PRISMS, OPTICALLY WORKED FOR SPECTROMETERS, EQUILATERAL TWO FACE POLISHED, 25 X 25MM HEIGHT. (C) Extra dense Flint Glass Prism 1.65	04
					Compound Pendulum	1 MITRE ROD WITH 19 HOLES , 1MITRE SCALE,DIGITAL STOP WATCH	02

					Hall Effect Setup	Kit with along with all Necessary equipments & accessories to Perform the experiment	01
					Plank Constant Complete Setup	Mains:- 230 ± 10% 50Hz Fuse:- 0.5A DC Power supply :0 -5v LED Type Super bright Size: 05mm Colours: blue,Green,Orange, Red DC voltmeter Type: LCD Display: 3.5 digit Range : 200mV-200V DC Ammeter Type LCD Display: 3.5 digit Range : 2 µA- 200 mA	01
					Flywheel apparatus	Flywheel, Meter scale, Digital stop watch , Thread or string Vernier callipers , pan , weight box 5(each 500gm)	01
					Michelson Interferometere	Pasco os-8501 Interferometer apparatus. He - Ne laser , laboratory stand with angal bar clamp Nalgene vaccum pump with air cell 18 mm Focal Convex lens , 2 laboratory jacks , 30 cm ruler ,meter Stick wall mounted barometer ,callipers.	01
					Experimental Setup for Thompson Method	1) a cathode ray tube (CRT) 2) a power supply to operate the CRT 3) Three bar magnets	01
						4) a diflection magnetometer 5) a stop watch 6) a wooden frame with scales fixed on its arms	

					Setup of Forbidden Energy band gap	DC power Supply +15V, 2.5V + 5v, 0.5A Diode 0A79 p-n junction, Germanium Type Switch 1 Pole, 2 way Toggle type DPM Type: LCD Display: 3.5 digit Oven Hight: 77mm Width:74mm coil: Nichrome Wire Thermometer: Graduated scale up to 100 deg.cel. Fuse:- 0.5A Mains:- 230+_ 10% 50 HZ Dimensions(mm): W250x D130	05
					Fiber optics complete kit	The kit should be equipment with transmitter, receiver, drivers, PLL detector, Filters, Function Generator and other with all Necessary equipments & accessories to Perform the experiment	01
No	No	01/08/2012	275000.00	Shopping	Repairing ,Painting & Flooring	Repairing-doors & windows painting & Distempering of labs, Flooring Plastering and concreting for various jobs	01

					Wiring and Electrification	Electrical wiring with new switch boards, power boards , Electrification of CSE, Civil, Mech.	01
					Partitioning of lab and staff rooms	Electrical wiring with new Partioning CSE,CIVIL, EEE, ETE Lab, ETE, MECH.	01
No	No	01/08/2012	75000.00	Shopping	Partitioning of lab and staff rooms	Electrical wiring with new Partioning CSE,CIVIL, EEE, ETE Lab, ETE, MECH.	01
No	No	01/08/2012	375000.00	Shopping	Wiring and Electrification	Electrical wiring with new switch boards, power boards , Electrification of CSE, Civil, Mech.	01
					Partitioning of lab and staff rooms	Electrical wiring with new Partioning CSE,CIVIL, EEE, ETE Lab, ETE, MECH.	01
					Fall ceiling works	ETE/ Different Labs	01
No	No	29/09/2012	83000.00	Shopping	Physical Fitness	Equipments for Physical Fitness - Trade mill etc.	01
					Suction Machine	Manual Vacuum Suction Machine	01

					BP Apparatus	Electronic BP measuring Apparatus	01
					Stethiscope		01
					Glucometer		01
					Invertor		01
					Nebulizer Set		01
No	No	01/08/2012	400000.00	Shopping	Server	server should have the following hardware:- Item 1. Processor: Intel Xeon Quad Core,Configuration: Rack 6U or 7U "Add on Items for Server" Item 1. IntelXeon E5506 2.13GHz with 4MB L3 cache Mem,4800MHz QPI Bus , Item: 2.: 2GB DDR3 800MHz Reg.with ECC for 2P DC/4P DC2P QC/4P QC AMD Opteron Item 3 : Intel Xeon MP E7520,1.86 GHz D/Cpro with 18MB L3 Cache Item4: 2GB DDR3 800MHz Reg.with FBDIMM with ECC for 2P/4P Quad Core Xeon Item5: 2GB DDR2 400 Registered With ECC for 4P Quad Core Xeon Item6: 300 GB 10000 RPM HDD SAS	01
						Item7: Combo for 4Processorxeon 16x10x24 CD R/W and 8xDVD ROM,In lieu of: 8x DVD ROM	

No	No	01/08/2012	475000.00	Shopping	Repairing ,Painting & Flooring	Repairing-doors & windows painting & Distempering of labs, Flooring Plastering and concreting for various jobs	01
					Wiring and Electrification	Electrical wiring with new switch boards, power boards , Electrification of CSE, Civil, Mech.	01
					Partitioning of lab and staff rooms	Partioning CSE,CIVIL, EEE, ETE Lab, ETE, MECH.	01
					Fall ceiling works	ETE/ Different Labs	01
No	No	01/08/2012	875000.00	Shopping	Plate Load Test Appratus	The test is performed for the determination of bearing capacity of soils for allowable settlement under static loads at shallow foundation as per IS : 1888.	01
					SPT Apparatus	As per IS 2131 consists of Split spoon sampler, Extension rod, driver with penetration assembly, tripod stand, spanners, auger, threaded cone, casing pipe, guide pipe assembly with heavy rope	01
					Feild Type Bearing Apparatus		01

					Tri axial Test Apparatus	Soil Specimen of 38mm dia x 76 mm long conforming to IS2720 part 22, consisting of load frame 5000 kg, two speed, stationery bush type triaxial cell, lateral pressure assembly, high sensitivity proving ring, dial guage, electrically cum manually operated.	01
					Direct Shear Test Apparatus	Conforming to specifications and tolerance in accordance to IS 2720 part XIII for specimen size 60 mm x 60 mm x 25 mm, electrically cum manually operated. Consisting of loading unit, Shear Box assembly, Shear box housing, specimen cutter and proving ring	01
					Static Cone Penetrometer	Hand Operated, Capacity : 3 T, as per IS 4968(Part 3) with additional Penetration Cone Steel, 60° angle & Mantel Tube, 36mm uniform OD with sounding rod 1m length	01
No	No	01/08/2012	941500.00	Shopping	Total Station	Windows Based Operating System, On Screen Survey Software to view and edit measured data, perform survey calculations. Accuracy : 1 Sec, Range 4000m, Colourful Touchscreen Display,	01
						absolute encoding system, alphanumeric keyboard.	

					Optical Theodolite	2 second accuracy, erect image, magnification 30x, objective aperture 45 mm, resolving power 3 sec, field of view 1 deg 30 sec, shortest focussing distance 1.4 m, multiplication constant 100, additive constant zero, length 157 mm with standard accessories	05
					Auto Level	Magnification 32x, 40 mm objective aperture, setting accuracy +/- 0.3 sec, image erect, field of view 1 deg 20 sec, shortest focussing distance 0.5m, working compensator +/- 15 min, multiplication constant 100, additive constant zero including all accessories	02
					Steel Tape	15m, 30m	05
					Matellic Tape	15m, 30m	10
					Telescopic Level Staff	Made of aluminium, telescopic type, accurately printed in graduations having 5 mm in front and 1 mm backside, packed in waterproof canvas cover	03
No	No	01/08/2012	890000.00	Shopping	Bernoulli's Apparatus	a) Supply & receiving chambers with scale & glass tube fittings for the measurement of total potential head, &	01
						interlinking duct made of thick transparent perspex sheet smooth variable cross section, quality glass piezometer tubes to measure the pressure b) Strong iron stand for supporting the equipment. c) M.S. Collecting Tank of Size 0.3 m x 0.3 m x 0.6 m gauge glass scale fittings & a drain valve of 1" size & bend.	

					Variable Speed Centrifugal Pump	a. Centrifugal pump of size 1" x 1" to discharge 10 LPM at 10 m total head on rated working speed. 1H.P. capacity Pump Test rig set is suitable for pump test at different speeds against different heads. b. Variable speed 1 H.P. capacity D.C. motor is coupled directly to pump with help of coupling. c. M.S. reservoir of size 0.9 m length x 0.55 m width x 0.45 m height with gauge glass & scale fitting, drain valve of ½" size & a bend.	01
					Multi Stage Pump	a. A multi stage pump of size 2" x 2" to discharge 350 LPM at 45 m.head to normal speed 1440 RPM, is coupled with 7.5 HP electric motor, 3 Phase AC. 400/440 V Characteristics being studied at different speeds against different heads. b. Variable speed arrangement by 3 step pulley.	01
					Pipe Friction Apparatus		01

					Pipe losses apparatus		01
					Force of Jet Apparatus		01
					Vertex Flow Apparatus		01
					Rate Speed Pump		01
					Reciprocating Pump		01
No	No	01/08/2012	878000.00	Shopping	Digital Conductivity Meter	The EMCEE Digital Conductivity Meter Model is a Hand Held, battery instrument for determining the conductivity of fuel Samples, Capable of reading between 500 megohms to infinity (0 CU)	01
					Heating Mentle	1 lit. of 220 to 240 V Singal phase A/C, made of ceramic fibre, built- in simmerstat having max. temp. 450 deg. With main chord 3 core, 2m length	01
					Jar Test Apparatus	Jar Test Apparatus with six stirrers featuring digital timer and R.P.M counter.	01
					WATER Bath	Rectangular, double Walled Inside Stain less steel, Thermostatically Controlled, Temp- Range Amb.+5 deg c, size 425x325x100mm (12 holes of 75 mm dia)	01
					Digital Controlled BOD Incubator	Double walled Constuction, inner chamber made of SS, and exterior made of GI sheet, powder coated, temp controlled by	01
						microprocesor based digital temperature controller, temp range 5-60 deg, accuracy +/- 0.5 deg centigrade, Capacity : 112 Ltr (4 C.Ft)	

					Hot Plate	Rectangular, with Energy Regular, 250x300x150mm, 1.2 kw	01
					Refrigerator	1.90 lit	01
					Digital Balance	measured weight upto 100Kg, pan size 550x550mm	01
					Digital Spectrophotometer	UV Double Beam Spectrophotometer, Range 190nm - 1100 nm, Bandwidth 2 nm, Accuracy +/- 0.5 nm, System Double Beam Optics, Storage 1000 samples inbuilt memory	01
					Digital Ph meter	Table Top model, PH Range 0 to 14, resolution 0.01 PH, Accuracy 0.01 PH	01
					Digital Turbidity meter	3 1/2 digit LED Display, Range upto 1000 NTU	01
					Ice Box		01
					Muffle Furnace	Size : 4" x 4" x 9", Temperature range 1100 deg C, Digital Temperature Controlled, Durable S.S Body.	01
					Digital Dissolved Oxygen Meter	a. Range:- 0-2 mg/l b. Display resolution:-0.1mg/l c. Accuracy(Machine only):- ±0.4mg/l d.Temperature compensation:0 to 40°C e.Operating Temperature: 0 to 50°C	01
						f. Operating humidity:max. 80% relative humidity HQ30d- single -input Multi- parameter Meter	

					Digital Distilled Water Apparatus	Made of stainless steel with all features like low water cut off device. Water produce upto 5lt /hr, power consumption upto 4.5 KW (single phase), input power 220 V, with Gross Weight 8 Kg.	02
					Digital Room Thermometer	a. Temp. :- 0- 50°C (32- 120 F) b. Humidity :- 20%- 99% c. Display :- Max/min Temp. and Humidity record	01
					COD Digestion Apparatus	a. Provision for 15 samples. b. Fitted with a digital temperature controller having a timer for 2 hours and also a buzzer. c. Consists of a reaction vessel of 38-40mm. d. Supplied with 15 nos. glass reaction vessels. e. Fitted with 15 nos. air condensers f. Supplied complete with a stand which can accommodate 15 vessels. g. Can be operated on 230 volts, 50 Hz, and Single phase	01
					Hot Air Oven	Size : 45 x 45 x 45 cm, made of complete stainless steel, digital display	01
No	No	01/08/2012	695000.00	Shopping			

					Partitioning of lab and staff rooms	Electrical wiring with new Partioning CSE, CIVIL, EEE, ETE Lab, ETE, MECH.	01
					Fall ceiling works	ETE/ Different Labs	01
					Tiling and Plateform Construction	Tiling of chem. lab with acid resistant tiles and Chemical analyses and water supply lines	01
					Repairing ,Painting & Flooring	Repairing-doors & windows painting & Distempering of labs, Flooring Plastering and concreting for various jobs	01
					Foundation of Machines	foundation of lab equipment /Machines	01
					Wiring and Electrification	Electrical wiring with new switch boards, power boards , Electrification of CSE, Civil, Mech.	01
No	No	01/08/2012	124000.00	Shopping	Analog Digital Bread Board	The system should consist of : Master Unit : Should be a Universal Unit, designed to conduct experiments with both Analog as well as Digital Circuits. The Unit should have : •DC Power Supply:5V, 1A. & \pm 12V, 500mA. (Fixed) & 0 to 30V DC, 100mA .	06
					Add on Panels	Advance Operational Amplifier Experiment panel Lowpass filter, High pass filter, Bandpass filter, Band stop (Notch)filter, Wien Bridge oscillator, Phase Shift oscillator. Passive / Active / M Derived Filter Panel Passive (RC) filters Active filters LC (M derived / constant K type).	06
					Square Rooting Circuit Trainer	Provision to study and test the working of Square Rooting Circuit using Multiplier. Logical diagram to be provided in the front view User manual with practical & circuit diagram and connecting patch chord.	01

					Quadrant Divider Trainer	<ul style="list-style-type: none"> • Provision to study and test the working of IC RC 4200. • Logical diagram to be provided in the front view User manual with practical & circuit diagram and connecting patch chord. 	01
					LCR Combo Decade Box	<p>Inductor:- Pot core wound 00mH to 100H 200mA Rotary Switch 6 1mH Capacitor:- Polyester 10pF to 111mF 250Volt Non-Polar Rotary Switch 6 12pf Resistor:- Non-Inductive 0.01Ω to 111MΩ 250Volt / 2watt Rotary Switch 6 12mW</p>	02
No	No	01/08/2012	370000.00	Shopping	AC Motor Speed Controller Trainer	<p>Fractional HP Universal AC/DC 230V/ 1/12th HP motor windings are brought on SBS5 socket for easy connection. Chassis mounted table top with brake pulley and spring</p> <p>balance. Lightweight sturdy aluminum power coated flat demo panel system containing modular panels.</p>	01

					DC Motor Speed Controller Trainer	DC Shunt motor 160W/180V with Armature and field windings are brought on SBS5 socket for easy connection. Chassis mounted table top with brake pulley and spring balance. Lightweight sturdy aluminum power coated flat demo panel system containing modular panels.	01
					Induction Motor Speed Control Trainer	Powder coated sturdy Aluminum flat panel (table top) system, carrying various high voltage components housed in plastic enclosures (panel) to minimize shock possibility. ?1 phase Motor, nator & Synchronous Motor Panel 1 phase MCB of 4A/1.6A – 2nos, bulb load.	01
					Armature Control Seperately Excited DC Motor	The DC motor should come with 2HP DC Shunt motor Separately excited, 230V DC Armature 230V DC It should demonstrate how the change in applied voltage affects the motor speed. User manual with practical & circuit diagram and connecting patch chord.	01
					3 phase induction motor Fault Simulator	Powder coated sturdy Aluminum flat panel (table top) system, carrying various high voltage components housed in plastic enclosures (panel) to minimize shock possibility. ?Input 3 Phase DOL Starter Panel. 3 phase squirrel cage induction motor, ½ HP, 4 pole, 1500RPM, Motor with built in thermal cutout.	01
No	No	01/08/2012	75000.00	Shopping	AC Transmission Line Analyzer	This set-up should consist of four individual modules. i) Input AC Source ii) Transmission Line model 1.Simulated value of R-L for short transmission line and R-L-C for MEDIUM LINE and LONG transmission line	01
						iii) Transmission line parameter measurement model 1.PIC Micro controller used to measure all parameters and LCD display to indicate different voltages & currents & also to indicate A,B, C,D value of transmission line in rectangular form. iv) Load setup 1.Three sets of R-L load for all three types of transmission line. 2. Facility to load transmission line up to 75% of load regulation & 85° of lagg P.F 3. Rotary switch provided for load R, L value ion.	

					Cable Fault Locator	1)Telephone cable simulator module * It should consists of 10 mtr. cable module with different intermediate points * Necessary fault creating points. * Ground and short circuit fault calculation using VARY LOOP TEST. 2) Wheat stone bridge circuit: * Two range ion arms provided to the nearest range of unknown value. * Range of Measurement: 50 Ohm-1M Ohm.	01
					Determination of Characteristics of	Measurement of Sequence	01
					nator	Impedance (Reactance) of an nator The Trainer should measure the sequence Impedance Positive, Negative & Zero of an nator set-up. This trainer should consist of the necessary equipments including nator, motor, transformer etc. User manual with practical & circuit diagram and connecting patch chord.	

					3 Phase Fault Analysis Trainer	Three phase Transmission line fault Simulation Study Module * Simulate 3 phase Balanced system Fault and unsymmetrical faults. * Fault study with single line and double line in 3 phase system. * Analysis of all series and shunt Faults. # L-G – Fault # L-L – Fault # L-L-G – Fault # Single Conductor open fault # Double conductor open fault # Fault through impedance * The transmission lines simulated by high frequency Inductance & resistance for short medium and long line. User manual with practical & circuit diagram and connecting patch chord.	01
					DC NV Analyzer	* DC Generator source - Two wires or three wire - $\pm 12V$. * Provision for variable DC voltage. * Simulation of Long/Medium/Short Distribution line * Second DC generator source at distance end or Ring main Simulation * Provision to connect loads at variable line locations. * Measurement of voltage and current at any point on the line segments. User manual with practical & circuit diagram and connecting patch chord.	01

No	No	01/08/2012	91000.00	Shopping	Diac and Triac Characteristic Trainer kit	Built in Regulated Power supply 0-50 V DC/100 mA continuously variable. 0-3 V DC/100 mA continuously variable. On board 55 Volt AC /100 mA and 9V AC/100 mA voltages are provided for experiments. Following parts provided on Single PCB with connecting terminals. Diac DB3, Triac BT136, 1K5 and 22-Ohm Resistor, Potentiometer, 0.47uf/250V	01
						Polyester Capacitor. User manual with practical & circuit diagram and connecting patch chord.	

					Force Commutator of SCR Trainer Kit	Built in Regulated Power supply : +12V DC On board 1 HZ pulse generator for triggering SCR.. User manual with practical & circuit diagram and connecting patch chord.	01
					Firing Circuit using RC Circuit	Following parts provided on Single PCB with connecting terminals. SCR BT 151, IN4002, OA79 Diode, Potentiometer, 10uf/40V Electrolytic capacitor. On board 15 Volt AC /100 mA User manual with practical & circuit diagram and connecting patch chord.	01
					Single Phase Full Wave Bridge Rectifier	Power supply requirement : 440V AC, 3 Phase. Following parts provided on Single PCB with connecting terminals. SCR, UJT-2N2646, IN4007 User manual with practical & circuit diagram and connecting patch chord.	01
					3 Phsae Full Wave Bridge Rectifier	Following parts provided on Single PCB with connecting terminals. SCR, Power Diodes Load Resistors of different values with 100mh Coil, 1000/35 EC, 0.1 PPC Three Mains Transformer	01
						with step down AC Voltages : 0-30V/250 mA. User manual with practical & circuit diagram and connecting patch chord.	

					DV/ DT Limitation of SCR kit	Following parts provided on Single PCB with connecting terminals. SCR BT 151, IN4002 Diode, OA79 Diode, Resistors, Potentiometer, 10uf/40V Electrolytic capacitor, 0.47uf/250V Polyester Capacitor On board 15 Volt AC /100 mA User manual with practical & circuit diagram and connecting patch chord.	01
					Characteristics of UJT Trainer kit	Power supply requirement : 230V AC, 50 Hz. Built in Regulated Power supply On board DC Voltmeters and DC Ammeter User manual with practical & circuit diagram and connecting patch chord.	01
					AC Phase Control Using ACR	Built in Regulated Power supply On board DC Voltmeters and DC Ammeter User manual with practical & circuit diagram and connecting patch chord.	01
					Series Inverter kit Using SCR	Built in firing circuit DC supply for inverter (Half bridge) to converter in to AC. Following parts provided on Single PCB	01
						with connecting terminals. Triac BT 136, Capacitors, Choke coils, Resistors and Loads. User manual with practical & circuit diagram and connecting patch chord.	

					Chopper Kit using SCR	Built in Regulated DC Power supply for chopper to step down to other DC supply. Following parts provided on Single PCB with connecting terminals. Triac BT 136, IN4002 Diode, Resistor, Choke Coils. User manual with practical & circuit diagram and connecting patch chord.	01
					Speed Controller of AC Motor	Following parts provided on Single PCB with connecting terminals. Diac - DB3, Triac - BT136, Variable Resistor (Potentiometer), Smoothing Capacitors. User manual with practical & circuit diagram and connecting patch chord.	01
No	No	01/08/2012	340000.00	Shopping	Open loop System Trainer Kit	1. Electronic simulation used for the process under study for easy and better understanding. 2. Demonstrates the principle and working of a basic open loop control system. 3. Charging of a capacitor with constant current used as process and timer as control element. 4. Built-in variable input command, variable disturbing/error signal and timer with relay. 5. Built-in IC based DC regulated power supply with short circuit protection. User manual with practical & circuit diagram and connecting patch chord.	01

					Closed loop System Trainer kit	1. Electronic simulation used for the process under study for easy and better understanding. 2. Demonstrates the principle and working of a close loop control system. 3. Charging of a capacitor with constant current used as process and timer as control element. 4. Built-in variable input command, variable disturbing/error signal and timer with relay. 5. Built-in IC based DC regulated power supply with short circuit protection. User manual with practical & circuit diagram and connecting patch chord.	01
					Basic Feedback System	1. Electronic simulation used for the process under study for easy and better understanding. 2. Demonstrates the principle and working of a basic feedback control	01
						system. 3. Charging of a capacitor with constant current used as process and timer as control element. 4. Built-in variable input command, variable disturbing/error signal and timer with relay. 5. Built-in IC based DC regulated power supply with short circuit protection. User manual with practical & circuit diagram and connecting patch chord.	

					Type Zero Control System Trainer	1. Electronic simulation used for the process under study for easy and better understanding. 2. Demonstrates the principle and working of a type "0" control system. 3. Study of its Time Response Analysis for different signals. 4. Observation of output signal on Digital multi meter. 5. Calculation of error signal. 6. Plotting of graph of time v/s input and time v/s output for step error signal and Ramp error signal. 7. Built-in IC based DC regulated power supply with short circuit protection. User manual with practical & circuit diagram and connecting patch chord.	01
					Type -1 Control System Trainer	1. Electronic simulation used for the process under study for easy and better	01
						understanding. 2. Demonstrates the principle and working of a type "1" control system. 3. Study of its Time Response Analysis for different signals. 4. Observation of output signal on Digital multi meter. 5. Calculation of error signal. 6. Plotting of graph of time v/s input and time v/s output for step error signal and Ramp error signal. 7. Built-in IC based DC regulated power supply with short circuit protection. User manual with practical & circuit diagram and connecting patch chord.	

					Type -2 Control System Trainer	<p>1. Electronic simulation used for the process under study for easy and better understanding. 2. Demonstrates the principle and working of a type "2" control system. 3. Study of its Time Response Analysis for different signals. 4. Observation of output signal on Digital multi meter. 5. Calculation of error signal. 6. Plotting of graph of time v/s input and time v/s output for step error signal and Ramp error signal. 7. Built-in IC based DC regulated power supply</p>	01
						with short circuit protection. User manual with practical & circuit diagram and connecting patch chord.	

					Test Signal Generator	1. Working voltage 230V, 50Hz A.C. 2. It should provide test signals of different waveforms and frequencies for feeding in as error signals. 5. It should give very low frequencies (variable) step and Ramp waveform signals, which are essential for finding the response of various control circuits. User manual with practical & circuit diagram and connecting patch chord.	01
					Proportional Control System Trainer	1. Demonstration of principle and working of a Proportional Control System (P). 2. Study of effects of proportional action on different actuated error signals generated externally for closed loop behavior of system. 3. Control of Proportional rate and study of its effects on the controlled signal. 4. Built-in IC based DC regulated power supply with short circuit protection. User manual with practical & circuit diagram and connecting patch chord.	01
					Lead Lag System Trainer	1. Demonstration of principle and working of	01
						lead lag networks. 2. Verification of frequency response characteristics of lead/lag networks. 3. Verification of theoretical and experimental values, for attenuation, time constant (T) and phase angle. 4. Built-in passive compensating networks such as lead and lag. 5. Built-in active compensating networks such as lead and lag using op-Amps with its power supply.. User manual with practical & circuit diagram and connecting patch chord.	

					Proportional Integral Derivative Control System	1. Complete system consists of a process unit with process and control unit with sensor. 2. The process unit consists of an aluminum rod as the process which is heated by 3 high wattage bulbs (100 watts each). A temperature of above 80 deg. C can be attained. 3. The control unit consists of an RTD PT 100 sensor probe with connecting facilities, its sensor input circuit P.I.D. control circuits, and power output circuit. 4. Built-in analog meters to measure deviation (+/- 20 deg.C) between set and process value and %	01
						output power (0-100%). 5. Study of effects of integral, derivative and proportional action : P, PI, PD & PID. User manual with practical & circuit diagram and connecting patch chord.	

					Proportional Derivativ Control PD System	1. Demonstration of principle and working of a Proportional Derivative (PD) control System. 2. Study of effects of integral and proportional action on different actuated error signals generated externally for closed loop behavior of system. 3. Control of derivative time, Proportional rate and study of its effects on the controlled signal. 4. Facility for Proportional (P) and Proportional Derivative (PD) control system experiments. . User manual with practical & circuit diagram and connecting patch chord.	01
					BODE Plot Trainer	1. Demonstration of the principle and working of a Various control system for Bode plot characteristics. 2. Study of frequency response, gain calculation transfer function logarithmic plot consisting of two graphs viz., logarithmic of magnitude and phase angle (combined plots are called Bode plot) for various control system	01
						(Type 0, 1, 2). 3. Test points at various stages in the circuit to observe and record the waveforms and voltages. User manual with practical & circuit diagram and connecting patch chord.	

No	No	01/08/2012	75000.00	Shopping	Kit for Verification of Ohms Law	1. Power supply requirement : 230V AC, 50 Hz. 2. Built in IC based power supply - +15V/250mA and +5V/250mA. 3. Different resistors on the board. 4. All parts are soldered on single pin TAGS on single PCB with complete circuit diagram screen printed. User manual with practical & circuit diagram and connecting patch chord.	01
					kit for Verification of Kirchof's law	1. Power supply requirement : 230V AC, 50 Hz. 2. Built in IC based power supply - +15V/250mA and +5V/250mA. 3. Different resistors on the board. 4. All parts are soldered on single pin TAGS on single PCB with complete circuit diagram screen printed. User manual with practical & circuit diagram and	01
						connecting patch chord.	

					Kit of RC Circuit and Time Control	1. Power supply requirement: 230V AC, 50 Hz. 2. Built in IC based regulated Power supply: +9V DC/200 mA. 3. Different C-R and R-C Circuits provided on Single PCB with connecting terminals. 4. Built-in 1KHz/10Khz TTL square wave generator. User manual with practical & circuit diagram and connecting patch chord.	01
					Kit for Phase Difference in LCR Circuit	1. 0-30V D.C. at 100mA, continuously variable IC regulated power supply. 2. +5V D.C. at 100mA, IC Regulated Power supply. 3. D.C. voltmeter, 65mm rectangular dial with switch able ranges of 0.5,1,5,25 & 50V. 4. D.C. Ammeter, 65mm rectangular dial with switch able ranges of 0.05, 0.5,5, 50 & 100mA. User manual with practical & circuit diagram and connecting patch chord.	01
					Kit for Series and Parallel Resonance	1. 0-30V D.C. at 100mA, continuously variable IC regulated power supply. 2. +5V D.C. at 100mA, IC Regulated Power supply. 3. D.C. voltmeter, 65mm rectangular dial with switch able ranges of 0.5,1,5,25 & 50V. 4. D.C. Ammeter, 65mm	01
						rectangular dial with switch able ranges of 0.05, 0.5,5, 50 & 100mA. User manual with practical & circuit diagram and connecting patch chord.	

					AC Circuit Fundamentals - 3 phase	Balanced 3 phase resistive load Star and Delta connection	02
No	No	01/08/2012	795000.00	Shopping	HV Transformer	Input voltage: 0-415V AC Output voltage:0-11kV AC kVA rating: 35 kVA Safety interlocks : Zero- interlock and door interlock Timer: 1 sec to 30 minutes Type of Cooling: Oil cooled The necessary powder coated control panel will be provided with the transformer Equipped with all necessary meters, switches, indicators and trip circuit. Memory switch Must be provided in the control panel. Special Feature : 1. Automatic Discharge at the end of experiments 2.Necessary safety and grounding points should be provided.	01
					Schering Bridge circuit Trainer	1.Screened standard capacitor: 100pF \pm 5%, 10 kV maximum 2.Dissipation factor (tan d) ; 10-5	01
						3.High voltage supply consists of protective circuit & special screening. 4.Input voltage: 230V 5.Output continuously variable: 0-10 kV 6.Maximum current: 100 mA 7.Capacity : 1 kVA 8.Arrangement should be made to shield the measuring system to neutralize the stray capacitances. Special Feature : 1. Automatic Discharge at the end of experiments 2. Necessary safety and grounding points should be provided.	

					Oil Testing Kit	Input Voltage : 0-230VAC Output Voltage : 0-60kV (30-0-30) Rating of Transformer : 500VA Facility for zero & Door- interlock Memory switch should be provided Over voltage cut-off should be provided It should be manufactured as per IS: 335 and IS : 6792. It should be automatic type kit. Special Feature : 1. Automatic Discharge at the end of experiments 2. Necessary safety and	01
						grounding points should be provided.	

					Sphere Gap Arrangement	Diameter of Spheres : 100mm Material of Spheres : Pure copper Type of Sphere gap : Vertical & mobile. Height of the Sphere gap : 1250mm Distance of Sphere from structure: 200mm The system is motorized and controlled from the control panel. Clock type gap indicator is provided with the sphere gap apparatus. The necessary water resistor should also be provided with stainless steel ends. 400ohm resistor should also be provided for impulse Test. The moving metal parts should be satin type hard-chrome plated. Special Feature : 1. Automatic Discharge at the end of experiments 2. Necessary safety and grounding points should be provided.	01
					Rod Gap Arrangement	The rod-gap apparatus should consist of the mobile base frame, insulating structure with provision to mount the electrodes. Suitable micrometer scale is provided on the moving electrode side to adjust the gap to the accuracy of	01
						±0.1mm. Following electrodes are supplied to study breakdown between uniform and non-uniform field. i) A pair of plate electrodes (uniform field) ii) A pair of point shaped electrodes (non-uniform field) iii) A pair of square tipped electrodes (non-uniform field) Special Feature : 1. Automatic Discharge at the end of experiments 2. Necessary safety and grounding points should be provided.	

					Horn Gap Arrangement	Transformer capacity: 15 kV Material of Horns: Aluminium or copper Minimum gap of horns: 3- 5mm Maximum gap of horns: 30- 50mm Perspex square shield should be provided to protect the horns from air disturbances. Special Feature : 1. Automatic Discharge at the end of experiments 2. Necessary safety and grounding points should be provided.	01
					Corona Discharge Cage	Corona Voltage: 37kV Diameter of the cage : 10" to 12" Length of the Corona cage : 36" Height of the cage : 30"	01
						The equipment should be mobile type and it should be powder coated. Special Feature : 1. Automatic Discharge at the end of experiments 2. Necessary safety and grounding points should be provided.	

No	No	01/08/2012	84000.00	Shopping	Micro Controller Trainer Kit	8051 Microcontroller CPU. MEMORY CAPACITY OF - 2KB SCRATCH PAD RAM, 16 KBBATTERY-BACKUP RAM (with onboard Ni-Cd rechargeable Battery), 36KB EPROM Monitor With Advance Software Like One-Pass Line Assembler & Dis-Assembler .	07
No	No	01/08/2012	49000.00	Shopping	Bistable Multivibrator kit	Built-in Power supply : +15V at 200mA IC Regulated & short circuit protected. To trigger the Bistable Multivibrator with Square Wave signal And to compare output frequency with the trigger waveform frequency, Measurement of voltages and observation of waveforms at intermediate points.	01
					Mono Stable Multi Vibrator kit	Built-in Power supply : +15V at 200mA IC Regulated & short circuit protected. Complete Circuit is printed on a single PCB with enclosed cover and test points are provided on it All parts are soldered on single pin tag for easy replacement.	01
					AStable Multivibrator kit	Built-in Power supply : +15V at 200mA IC Regulated & short circuit protected. Measurement of voltages and observation of waveforms at intermediate points, OPAMP IC 741 as Voltage follower.	01
					Kit of Op-amp as Inverting Summing Amplifier	IC 741- is provided. As summing/adder Built-in Power supply : +15V at 200mA IC Regulated & short circuit protected. Complete Circuit is printed on a single	01
						PCB with enclosed cover and test points are provided on it. All parts are soldered on single pin tag for easy replacement.	

					Timer Using IC - 555	Built in IC based regulated Power supply - 0-12 V DC/250 mA. Following parts provided on Single PCB with connecting terminals. IC 555 R-C Network - 100K Pots and Capacitors 100u/16V ON/OFF Timer.	01
					Kit of Clipping and Clamping Ckt	Power supply : 230V AC, 50 Hz., Built in IC based regulated Power supply: + 5 V DC/200 mA ,1N4148 Diodes . Built-in Square wave generator with switch able frequency ranges of 1kHz and 10kHz.	01
					Kit of Voltage Followers	IC 741- is provided. As summing/adder Built-in Power supply : +15V at 200mA IC Regulated & short circuit protected. Complete Circuit is printed on a single PCB with enclosed cover and test points are provided on it. All parts are soldered on single pin tag for easy replacement.	01
No	No	01/08/2012	28000.00	Shopping	Kit of Class A Power Amplifier	Built-in Power supply : +12V at 30mA IC Regulated & short circuit protected continuously variable. Power Supply: 230V, 50Hz AC. Power transistor -SL100 in Class-A Power amplifier circuit 8 Ohm 0.5 Watt Loud Speakers.	01
					Kit of Wein Bridge Oscillator	Built-in Power supply : + 9V DC at 50mA IC Regulated & short circuit protected Power Supply : 230V, 50Hz AC, Transistor BC548A/2N3904. Complete Circuit is printed on a single PCB with enclosed cover and test points are provided on it. All parts are soldered on single pin tag for easy replacement.	01
					Kit of Hartley Oscillator	Built-in Power supply : +9V at 50mA IC Regulated & short circuit protected PNP transistor, Gang Condenser. Power Supply : 230V, 50Hz AC.,Measurement of voltage	01
						and observation of waveform at intermediate points.	

					Kit of Darlington Pair Amplifier	+24V D.C. at 600mA, Transistors. Power supply : 230V AC, 50 Hz. Built in IC based regulated Power supply: +15V DC/200 mA. Following parts provided on Single PCB with connecting terminals. Transistors BC548B - Transistors BC557B -	01
No	No	01/08/2012	1855000.00	NCB	3 Phase 5 KVA, 415 Volt / 220 Volt Delta Y Transformer	Three Phase transformer 5KVA, 415/220V Portable with tapings on both primary and secondary mounted on main Bakelite sheet for easy Connections.	01
					Synchrnous Motor Coupled with DC Machine	5 HP, 415Volts, 1500 rpm 3 Phase Synchronous motor coupled to DC shunt Generator 230 Volts 2.0KW,1500 rpm coupled with 21V, 22 Amp 0.50KW DC generator (for Excitation) and a static DC Source with change over switch.	01
					DC Motor Coupled to AC Generator	DC shunt motor 5 HP 220V 1500 rpm, coupled to 3phase 440Volts 3KVA nator, coupled with 0.75KW DC Generator (for Excitation). Control Panel should be provided with built in DC Source derived from AC Source for both Motor & Generator with HRC Fuses, MCB & Power Socket to the rated	01
						capacity of Motor & Generator.	

					1 Phase Auto Transformer	240Volt 10A 50 Hz	02
					Auto Transformer (3 Phase)	415V, 50 Hz, 28 Amp	01
					Slip ring Induction Motor (3 Phase)	3 phase Slip ring Induction Motor 5 HP, 415V, 3 Phase, 50Hz directly coupled to mechanical Load with belt and pulley spring balance arrangement, with the drum dial type spring balance. Machine should confirm to IS Standard.	01
					Single Phase Capacitor Start Induction Motor	1phase Capacitor start and run Induction Motor 2HP 220Volts, 1440 rpm directly coupled to mechanical Load with belt and pulley spring balance arrangement with the drum round dial type spring balances. Machine should confirm to relevant specifications of BIS.	01
					AC Distribution Panel	Input voltage – AC, 3 Phase, 415V, 50Hz 125 amps capacity with overload protection earth fault protection, three digital Ammeter 0-150 amps & three Voltmeter 0-300V digital, the bus bar should be connected to 32 amps rating 3 phase ON & OFF switch.	01
					SLIP RING INDUCTION MOTOR	Three Phase Mains Supply : 415 V \pm 10%, 50 Hz Induction Motor : 3 HP, 1440 RPM (No Load) Ammeter : 0- 10 Amp Voltmeter : 0-500 V Wattmeter (WA) : 2500 W	01
						Wattmeter (WB) : 2500 W Three Phases MCB : 10 A Exclusive and rugged designed panel Designed by considering all the safety precautions User manual with practical & circuit diagram and connecting patch chord.	

					THREE PHASE TRANSFORMER	Input voltage: 0-415V AC Output voltage:0-1.1kV AC kVA rating: 5 kVA Safety interlocks : Zero- interlock and door interlock Timer: 1 sec to 30 minutes Type of Cooling: Oil cooled The necessary powder coated control panel will be provided with the transformer Equipped with all necessary meters, switches, indicators and trip circuit. Memory switch Must be provided in the control panel. Special Feature : 1. Automatic Discharge at the end of experiments 1.Necessary safety and grounding points should be provided. User manual with practical & circuit diagram.	01
					POWER FACTOR DEMOSTRATOR	Transformer PRIMARY VOLTAGE 0- 230V AC Secondary Voltage : 0- 115 V AC Current rating : 150 mA Transformer Primary Voltage : 0- 230V AC	01
						Secondary Voltage : 0- 9 , 15-0-15 V AC Current rating : 300 mA Resistance : 500E, 400 Watt 200E, 400 Watt Capacitor : 12.5μF 440/450V 20μF 440/450V Inductor : 200mH, 1A MCB : 2A Mains supply : 230 V ±10%, 50 HzExclusive and rugged designed panel Designed by considering all the safety precautions User manual with practical & circuit diagram and connecting patch chord.	

					SINGLE PHASE TRANSFORMER	<p>Input voltage: 0-230V AC Output voltage:0-1.1kV AC kVA rating: 5 kVA Safety interlocks : Zero- interlock and door interlock Timer: 1 sec to 30 minutes Type of Cooling: Oil cooled The necessary powder coated control panel will be provided with the transformer equipped with all necessary meters, switches, indicators and trip circuit. Memory switch must be provided in the control panel. Special Feature : 1. Automatic Discharge at the end of experiments 1.Necessary safety and grounding points should be provided.</p>	01
						User manual with practical & circuit diagram.	

					POWER MESUREMENT BY TWO WATTMETER METHOD	Mains Supply : Three Phase 415 V $\pm 10\%$, 50 Hz Load : R - L Meters Used Wattmeter : 500 W (2 Nos.) Voltmeter (MI) : 500 V Ammeter (MI) : 1 A MCB : 10 A Exclusive and rugged designed panel Designed by considering all the safety precautions User manual with practical & circuit diagram and connecting patch chord.	01
					THREE PHASE INDUCTION MOTOR	Mains Supply : Three Phase : 415 V $\pm 10\%$, 50 Hz Motor's Specifications Type : Squirrel Cage Rating : 1 HP Speed : 1440 RPM (No Load) Meters used Wattmeter: 1000 W Voltmeter (MI) : 500 V Ammeter (MI) : 5 A MCB : 10 A Tachometer : 20,000 RPM Exclusive and rugged designed panel Designed by considering all the safety precautions User manual with practical & circuit diagram.	01
					SCOTT CONNECTION TRAINER	Three phase Input voltage with standard frequency. Main and Teaser Transformer. Main Transformer Input Winding : 0 - 200 V	01
						(50%) $\pm 10\%$, 50 Hz : 0 - 200 V (50%) $\pm 10\%$, 50 Hz Output Winding : 0 - 230 V $\pm 10\%$, 50 Hz Teaser Transformer Input Winding : 0 - 115.6 V (28.9%) $\pm 10\%$, 50 Hz : 346.4 V (86.6%) $\pm 10\%$, 50 Hz : 400 V $\pm 10\%$, 50 Hz Output Winding : 0 - 230 V $\pm 10\%$, 50 Hz Step down Transformers (2Nos.) Input Winding : 0 - 230 V $\pm 10\%$, 50Hz Output Winding : 0 - 18 V $\pm 10\%$, 50Hz Two phase step down outputs available for waveforms observation on oscilloscope. Test points should be provided on board to observe various intermediate signals. Designed by considering all the safety precautions. User manual with practical & circuit diagram and connecting patch chord.	

					SUMPNER'S TEST (BACK TO BACK) TEST ON SINGLE PHASE TRANSFORMER	1.Moving Coil Voltmeter of Range 300V AC and Moving Coil Ammeter of Range 1A AC. 2.Moving Coil Ammeter of Range 10A AC and Single Phase Wattmeter of Range 500W. 3.Miniature Circuit Breaker of Range 16Amps	01
						(MCB/ DP) Provided on the Input Side. 4.Designed by considering all the safety precautions. User manual with practical & circuit diagram and connecting patch chord.	

					PARALLEL OPERATION OF TWO SINGLE PHASE TRANSFORMERS	1.Single phase Mains supply -230 V AC $\pm 10\%$, 50Hz 2.Transformers of 1kVA rating, Primary Voltage : 0 - 230 V and Secondary Voltage :0 - 200 – 230V 3.Designed by considering all the safety precautions. 4.Voltmeter (MI) : 500 V, Ammeter (MI) : 10 A and MCB (Single Phase) : 10 A User manual with practical & circuit diagram and connecting patch chord.	01
					THREE PHASE SINCRONOUS MOTOR	Rating : 5 HP Speed : 1500 RPM Features: Center tapped wattmeter. Designed by considering all the safety precautions. User manual with practical & circuit diagram and connecting patch chord.	01
No	No	01/08/2012	225000.00	Shopping	D. Arsonval Galvano Meter	Test points for observing output of different parts. Separate sockets to make different connections	01

					Current Transformer Test Bench	The CT Test Bench shall be suitable for testing CT manufactured in accordance to IEC standards. The CT Test Bench shall have Automatic Current generation and voltage regulating unit, Standard CT, Standard burden, PC, Printer, Testing software and connecting cables	01
No	No	01/08/2012	675000.00	Shopping	Partitioning of lab and staff rooms	Partitioning CSE,CIVIL, EEE, ETE Lab, ETE, MECH.	01
					Fall ceiling works	ETE/ Different Labs	01
					Repairing ,Painting & Flooring	Repairing-doors & windows painting & Distempering of labs, Flooring Plastering and concreting for various jobs	01
					Foundation of Machines	foundation of lab equipment /Machines	01
					Wiring and Electrification	Electrical wiring with new switch boards, power boards , Electrification of CSE, Civil, Mech.	01
No	No	01/08/2012	890000.00	Shopping	DSP Trainer Kit		10
					Computer System	Desktop System	10
					CRO	30 Mhz - 1 Ghz	03
No	No	01/08/2012	96000.00	Shopping	Semiconductor Diode kit	Semiconductor Diode Cha.:- 1. Power Supply requirement :- 230V- 250V Ac, 50Hz. 2.Built in IC Based regulated Power Supply (+Ve & -Ve side) -0- 15V. DC mA continuously variable. 3. Following Parts Provided on Signal PCB with connecting terminals. Silicon Diode IN4007 Germanium Diode 0A79 4. All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points. 5. Accessories:- 1. Manual, 2mm Patch cord. All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02

					Zener diode Kit	Zener Diode Char. :-1. Power Supply requirement :- 230V- 250V Ac, 50Hz. 2.Built in IC Based regulated Power Supply (+Ve & -Ve side) -0- 15V. DC mA continuously variable. Following Parts Provided on Signal PCB with connecting terminals. Silicon Diode IN4002 Germanium Diode 0A79 1K- Ohm Resistor 470- Ohm Variable Resistor (Potentiometer) 4. Accessories:- 1. Manual, 2mm Patch cord .All Parts	02
						are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	

					Diode & Zener diode kit	Diode & Zener Diode Cdar. :-1. Power Supply requirement :- 230V- 250V Ac, 50Hz. 2.Built in IC Based regulated Power Supply (+Ve & -Ve side) -0- 15V. DC mA continuously variable. Following Parts Provided on Signal PCB with connecting terminals. Silicon Diode IN4002 Germanium Diode 0A79 1K- Ohm Resistor 470- Ohm Variable Resistor (Potentiometer) 4. Accessories:- 1. Manual, 2mm Patch cord	02
					Transistor char. in CE Mode	Transistor Char. In CE Mode :- 1.Built in Power supply (+ve & -Ve side):- 0.- 15 0-15V. DC mA continuously variable. 2. Power Supply requirement :- 230V- 250V Ac, 50Hz.AC 3. Following Parts Provided on Signal PCB with connecting terminals. Transistor, Potentiometer- 5KP , 4.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points. 5. Accessories:- 1. Manual having practical details, 2mm Patch cord .All	02
						Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	

					Transistor Char. in CB Mode	Transistor Char. In CB Mode :-1.Built in Power supply (+ve &-Ve side):- 0- 15 0-15V. DC mA continuously variable. 2. Power Supply requirement :- 230V- 250V Ac, 50Hz.AC 3. Following Parts Provided on Signal PCB with connecting terminals. Transistor, Potentiometer-5KP , 4.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points. 5. Accessories:- 1. Manual having practical details, 2mm Patch cord .All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02
					Half wave Full wave & Bridge Rectifier	Half wave Full wave & Bridge Rectifier :- DC Power supply:-+12V, +- V, 500mA Ammeter 2mA Mains 230V+-10%,50Hz, Semi Conductor diodes Fabricated on PCB Accessories:- 1. Manual having practical details, 2mm Patch cord . Accessories : Line cord,	02
						Manual, Set of patch cords	

					Transistore Char. in CC Mode	Transistor Char. In CC Mode :-1.Built in Power supply (+ve &-Ve side):- 0- 15 0-15V. DC mA continuously variable. 2. Power Supply requirement :- 230V- 250V Ac, 50Hz.AC 3. Following Parts Provided on Signal PCB with connecting terminals. Transistor, Potentiometer-5KP , 4.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points. 5. Accessories: 1. Mannual having practical details, 2mm Patch cord .All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02
					Zener Doide Votage Regulatore Char.	Zener Doide Voltage Regulator Char. :-Power Supply requirement :- 230V- 250V Ac, 50Hz. 2.Bulit in IC Based regulated Power Supply (+Ve & -Ve side) -0- 15V. DC mA continuously variable. Following Parts Provided on Signal PCB with connecting terminals. Zener Diode 5.6 V 1K-Ohm Resistor 470-Ohm Variable Resistor (Potentiometer) 4. Accessories:- 1. Manual, 2mm Patch cord .All Parts are Soldered on single PCB	02
						with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	

No	No	01/08/2012	126000.00	Shopping	MAXIUMUM POWER TRANSFER THEOREM TRAINER	Maximum Power Transfer Theorem Trainer:- Specification:-Built in regulated power Supply +15v /150mA, - +5v /300mA, Input Supply 230VAC / 50Hz mains operated. With Lead, Patch Card & Manual . Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02
					SERIES RESONANCE TRAINER	Built in regulated power supply + 15v /150mA ,+5v/300mA,In put Supply 230VAC/50Hz mains operated. With lead , patch cord & Mannual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02
					PARALLEL RESONANCE TRAINER	Built in regulated power supply + 15v /150mA ,+5v/300mA,In put Supply 230VAC/50Hz mains operated. With lead ,	02
						patch cord & Mannual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	

					NORTON, S THEOREM TRAINER	Built in regulated power supply + 15v /150mA ,+5v/300mA, Input Supply 230VAC/50Hz mains operated. With lead , patch card & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02
					SUPER POSITION THEOREM TRAINER	Super Position Theorem Trainer:-Specification:-uilt in regulated power Supply +15v /150mA, - +5v /300mA, Input Supply 230VAC / 50Hz mains operated. With Lead, Patch Cord & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02
					RECIPROCITY THEOREM TRAINER	Built in regulated power supply + 15v /150mA ,+5v/300mA, Input Supply 230VAC/50Hz mains operated. With lead , patch cord & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02
					TELLENGEN'S THEOREM TRAINER	Tellegen's Theorem Trainer: -Specification:-Built in regulated power Supply	02
						+15v /150mA, - +5v /300mA, Input Supply 230VAC / 50Hz mains operated. With Lead, Patch Cord & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points. .	

No	No	01/08/2012	882000.00	Shopping	DESK TOP COMPUTER I 3	WITH TFT MONITOR	20
					PRINTER		05
					SAC28F001012 AIR CONDITIONER	5 STAR	04
					ON LINE UPS	5 KVA	02
No	No	01/08/2012	91000.00	Shopping	TWO STAGE R C COUPLED AMPLIFER TRAINER	1.Two Stage R C coupled Amplifier Trainer:- Specification:-Built in regulated power Supply +15v /150mA, - +5v /300mA, Input Supply 230VAC / 50Hz mains operated.With Lead, Patch Cord & Mannual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	04
					DIFFERENTIAL AMPLIFER	Built in regulated power	02
						supply + 15v /150mA ,+5v/300mA,In put Supply 230VAC/50Hz mains operated. With lead , patch cord & Mannual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	

					TRANSISTOR AMPLIFIER (CC , CB, CE)	3. Transistor Amplifier (CC,CB ,CE):-Specification:- Built in regulated power Supply +15v/300mA, Input Supply 230VAC / 50Hz mains operated. With Lead, Patch Card & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02
					PUSH PULL AMPLIFIER	4. Push pull Amplifier:- Specification:-Built in regulated power Supply +15v/300mA, Input Supply 230VAC / 50Hz mains operated. With Lead, Patch Card & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	03
					ELECTRONICS WORK STATION	7. Electronics WorkStation:- Digital work station (Project Lab) with breadboard DC Supply (5 type), 1MHz pulse Generator, Logic level	01
						switches (8Nos.) Logic probe & Bi Colours LEDs etc. Regulated DC Supplies(using low loss R core transformer): +5V-1A (fixed). +- 12V-500mA (Fixed). +- 12V-500mA (Variable). AC Supply : 9V - 0V -9V /500mA. Breadbord: Breadboard for making various circuits and testing them. External Components / IC can be fitted conveniently. All components and breadboard are mounted On Glass epoxy PCB.	

No	No	01/08/2012	108000.00	Shopping	BASIC LOGIC GATES	1. Basic Logic Gates (Using Diode Tr.) 1. Inbuilt +5V /300mA power Supply with short circuit Protection 2. Input line & Output lines Toggeles Switches. 3. TTL Compatibility .4. Voltage Level Indication By LEDs 5. Training mannual & connecting patch cords. 6. On Board required Integrated Chip.User mannual with practical & circuit diagram & connecting patch cords. 7.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02
					HALF ADDER	2.Half adder :- Inbuilt +5V /300mA power Supply with shot circuit Protection 2. Input line & Output lines Toggeles Switches. 3. TTL Compatibility .4. Voltege Level Indication By LEDs 5. Training manual & connecting patch cords. 6. On Board required Integrated Chip. Accessories : Line cord, Mannual, Set of patch cords 7.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02

					FULL ADDER	3.Full adder:- Inbuilt +5V /300mA power Supply with shot circuit Protection 2. Input line & Output lines Toggeles Switches. 3. TTL Compatibility .4. Voltege Level Indication By LEDs 5. Training manual & connecting patch cords. 6. On Board required Integrated Chip. Accessories : Line cord, Mannual, Set of patch cords 7.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02
					HALF SUBTRACTOR	4.Half Subtractor:- Inbuilt +5V /300mA power Supply with shot circuit Protection 2. Input line & Output lines Toggeles Switches. 3. TTL	02
						Compatibility .4. Voltege Level Indication By LEDs 5. Training manual & connecting patch cords. 6. On Board required Integrated Chip. Accessories : Line cord, Mannual, Set of patch cords 7.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	

					FULL SUBTRACTOR	5.Full Subtractor:- Inbuilt +5V /300mA power Supply with shot circuit Protection 2. Input line & Output lines Toggeles Switches. 3. TTL Compatibility .4. Voltege Level Indication By LEDs 5. Training manual & connecting patch cords. 6. On Board required Integrated Chip. Accessories : Line cord, Mannual, Set of patch cords 7.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02
					R- S FLIP FLOP	6. R-S Flip –Flop:- Inbuilt +5V /300mA power Supply with short circuit Protection 2. Input line & Output lines Toggeles Switches. 3. TTL Compatibility .4. Voltage Level Indication By LEDs 5. Training mannual & connecting patch cords. 6. On Board required	02
						Integrated Chip.With lead , patch cord & Mannual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	

					J-K FLIP FLOP	7.J-K Flip- Flop:- Inbuilt +5V /300mA power Supply with shot circuit Protection 2. Input line & Output lines Toggeles Switches. 3. TTL Compatibility .4. Voltege Level Indication By LEDs 5. Training manual & connecting patch cords. 6. On Board required Integrated Chip. Accessories : Line cord, Mannual, Set of patch cords 7.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02
					D FLIP- FLOP	8. D Flip- Flop :- Inbuilt +5V /300mA power Supply with shot circuit Protection 2. Input line & Output lines Toggeles Switches. 3. TTL Compatibility .4. Voltage Level Indication By LEDs 5. Training mannual & connecting patch cords. 6. On Board required Integrated Chip.User mannual with practical & circuit diagram & connecting patch cords.	02
					9 M-S/J-K FLIP FLOP	9.M-S/ J-K Flip- Flop :-	02
						Inbuilt +5V /300mA power Supply with short circuit Protection 2. Input line & Output lines Toggeles Switches. 3. TTL Compatibility .4. Voltage Level Indication By LEDs 5. Training manual & connecting patch cords. 6. On Board required Integrated Chip. User mannual with practical & circuit diagram & connecting patch cords. 7.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	

No	No	01/08/2012	478000.00	Shopping	CRO WITH FUNCTION GEN. FRE. COUNTER & POWER SUPPLY	30Mhz -1Ghz ,30MHz , 2 channel oscilloscope 40 MHz trigger band with , 1MHz Function Generator - Sine Square ,Triangle , DC Output , Power Supply $\pm 12v$ & 5v. Included Accessories :- 1. Manual 2. BNC- Test Prod Cable 3. BNC- Crocodile Cable 4. Test Prod 5. PC Control Software CD 6. Understanding Oscilloscope CD.	05
					OP- AMP IC 741 INVERTING AMP.	Built in regulated power supply + 15v /150mA ,+5v/300mA,In	06
						put Supply 230VAC/50Hz mains operated. With lead , patch cord & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points	

					OP-AMP IC 741 AS NON INVERING AMP	Built in regulated power supply + 15v /150mA ,+5v/300mA,In put Supply 230VAC/50Hz mains operated. With lead , patch cord & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	06
					OPAMP IC 741 AS AC AMPLIFIER	Built in regulated power supply + 15v /150mA ,+5v/300mA,In put Supply 230VAC/50Hz mains operated. With lead , patch cord & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	05
					OP-AMP IC 741 DC AMPLIFIER	Built in regulated power supply + 15v /150mA ,+5v/300mA,In put Supply 230VAC/50Hz mains operated. With lead , patch cord & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen	05
						printed sectionwise in multi colour with multicolored test points.	

					IC 741 AS DIFFERINTAL AMP.	Built in regulated power supply + 15v /150mA ,+5v/300mA,In put Supply 230VAC/50Hz mains operated. With lead , patch cord & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	06
					IC 741 AS ACTIVE LOW PASS FILTER	Built in regulated power supply + 15v /150mA ,+5v/300mA,In put Supply 230VAC/50Hz mains operated. With lead , patch cord & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	05
					IC 741 AS ACTIVE HIGH PASS FILTER	Built in regulated power supply + 15v /150mA ,+5v/300mA,In put Supply 230VAC/50Hz mains operated. With lead , patch cord & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	05
No	No	01/08/2012	410000.00	Shopping			

					Thermal Conductivity of Insulating Powder Apparatus	Outer Sphere (Top And Bottom) A. Diameter : 200mm (Approx.) B. Material : Copper Inner Sphere (Top And Bottom) A. Diameter : 100 B. Material : Copper Measuring Instruments: A. Digital Voltmeter, Range: 0 To 300V B. Digital Ammeter Range: 0 To 5 Amps C. Digital Temperature Indicator With or Switch: 0 Range :Ambient To 0- 300deg.c. Thermocouples: A. Type : Cr. Al B. Length: 1 Mt. 05. Electronic Dimmer : 1 No., 1.5 Kw	01
					Thermal Conductivity of Metallic Bar Apparatus	Control Panel Stand Alone Metallic Powder Coated Panel Specimen Shell: 200mm Dia, 5mm Thick, 1m Long Ms Pipe Tubes: 1/2" Dia, 1020 mm Long Copper Or Seamless Ms Tubes Insulation Asbestos Cloth / Rope Geyser 1 Liter, 3 Kw, Instantaneous (Ss Hot Water Tank With Pump At Extra Cost)	01
						Flow Measurement Measuring Jar With Digital Stop Watch (Rota Meters At Extra Cost). Temperature Indicator Digital Temperature Indicator ,0-200°C Thermocouples Teflon Coated Cr -Al (K- Type)-4 No. Measuring Jar Plastic-1000ml Stop Watch Digital, 1/10 Of A Second, Racer/Pacer Make Specifications For Metal Rod 1) Metal Rod Diameter : 25 mm. Approx. 2) Length of Metal Rod : 445 mm. Approx. 3) Diameter Of Cylindrical Shell Filled With Insulating Powder Approx. 4) Cooling Water Chamber Diameter : 75 mm. Approx. 5) Cooling Water Chamber Length : 100 mm. Approx.	

					Thermal Conductivity of Liquid Apparatus	Diameter Of Pipe :100 mm Material :Brass Length : 90 mm	01
						HeaterDiameter :90 mm Mica Cooling Plate Diameter : 100 mm Approx. Thickness Of Liquid :40 mm Measuring Instruments Digital Volt Meter – Range 0 To 300 V Digital Ammeter - Range 0 To 5 Amps Digital Temp. Indicator With or Switch - Range : Ambient To 300deg.c. Thermocouples Type : Cr Al Length : 2 m Qty. : 4 Nos. Main Frame: MS Square Tube 16 Gauge Panel :MS With Powder Coating	

					Transfer Rate and Temp. Distribution for a pin fin apparatus	Blower A. Capacity :350 Watts/ Flow Rate : 1.5 m3/sec Test Section A. Diameter :12mm B. Length :150mm C. Material :Brass Duct A. Size :100x150x500mm B. Material :MS With	01
						Powder Coating Measuring Instruments A. Digital Voltmeter Range: 0 To 300 V B. Digital Ammeter Range: 0 To 10 Amps C. Digital Temperature Indicator D. or Switch Range: Ambient To 300o Thermocouples A. Type :Cr. Al B. Length: 2 m. Electronic Dimmer: 1 No. "U" Tube Manometer of Glass	

					Stefan Boltzman Constant of Radiation of Heat Transfer Apparatus	Stefan Boltzmann Section A. Hemisphere Diameter/Material :200mm/ Copper B. Outer Jacket Diameter/Material :250mm/ Copper C. Hylum Base Plate :12 mm Thick D. Test Disc Size :20mm X 1.5 mm Water Tank With Immersion Heater A. Material: S.S. Digital Temperature Indicator With or Switch Range: Ambient To 300o. Thermocouples Type :Cr. Al , Length : 2 m.	01
					Heat pipe Demonstrator	Glass Tube A. Diameter/Height :100mm Od/275mm (Approx.) Copper Tube A. Diameter :9mm OD	01
						(Approx.) B. Material :150mm (Approx.) Measuring Instruments A. Digital Voltmeter Range: 0 To 300 V B. Digital Ammeter & Range: 0 To 5 Amps C. Digital Temperature Indicator With or Switch Range: Ambient To 300deg.c. Thermocouples A. Type :Cr. Al B. Length: 1 Mt. Dimmer/ Electronic Range: 0 To 10 Amps Rota meter A. Material :Acrylic B. Range :40 To 60 cc/sec Sump Tank: A. Size :200 X 200x 400mm (Approx.) B. Material :S.S	

					Heat Transfer Rate Through Heat Exchanger Apparatus	Control Panel Stand Alone Metallic Powder Coated Panel Specimen Shell: 200mm Dia, 5mm Thick, 1m Long Ms Pipe Tubes: ½" Dia, 1020 mm Long Copper Or Seamless Ms Tubes Insulation Asbestos Cloth / Rope Geysers 1 Liter, 3 Kw, Instantaneous Flow Measurement Measuring Jar With Digital Stop Watch Temperature Indicator	01
						Digital Temperature Indicator ,0-200oC Thermocouples Teflon Coated Cr -Al (K- Type)-4 No. Measuring Jar Plastic-1000ml Stop Watch Digital, 1/10 Of A Second	

					Heat Transfer Through lagged Pipe Apparatus	<p>Pipes A. Diameter :50/100/150mm Inner/Outer (Approx.) B. Length :450mm (Approx.) C. Material :G.I./MS D Quantity: 1 No. Each Measuring Instruments A. Digital Voltmeter Range: 0 To 300 V B. Digital Ammeter & Range: 0 To 5 Amps C. Digital Temperature Indicator With or Switch Range: Ambient To 0-300o Thermocouples A. Type :Cr. Al B. Length: 2 m. 04. Voltage Variance :1 No., 05: Insulation : Glass Wool</p>	01
					Thermal Conductivity of Insulating Slab Apparatus	<p>GUARDED PLATE SECTION : Main Heater Plate Diameter : 90 mm Material : Brass Ring Heater Diameter : 100 ID / 150 OD mm Material : MICA Ring Heater Plate</p>	01
						<p>Diameter : 100 ID / 150 mm OD Material : Brass Asbestos Plate : 150 OD / 12 mm Thick Cooling Jacket Diameter : 150 OD Material : Brass Size : 12 mm Thick MEASURING INSTRUMENTS Digital Voltmeter, Range : 0 To 300 V Digital Ammeter, Range : 0 To 5 Amps Digital Temp. Indicator With or Switch. : Ambient To 300o THERMOCOUPLES Type : Cr. Al. Length: 2m. Dimmer stat range : 0 To 220 Volts Ac</p>	

					unsteady State heat Transfer Apparatus	Control Panel Stand Alone Metallic Powder Coated Panel Specimen Copper 30mm Dia, 30mm Long, Duct / Enclosure MS Powder Coated Duct Of 8"X8" In Size 8" Dia MS Shell With Glass Wool Insulation Heater Band Heater-500w Cooling Fan	01
						8" Dia Exhaust Fan Voltmeter Digital Voltmeter Of Range 0-300v Ac Ammeter Digital Ammeter Of Range 0- 20 Amp Ac Temperature Indicator Digital Temperature Indicator ,0-400°C Teflon Coated Cr -Al (K- Type)-8 No. Stopwatch Digital Stop Watch. Regulator Electronic Dimmer	

No	No	01/08/2012	380000.00	Shopping	DSB/SSB AMPLITUED TRANSMITTER	Sine wave form output ranging from 300 Hz to 3.4 KHz ,carrier frequency - 455KHz using coil & transitar, carrier frequency - 1MHz using crystal controlled.Audio Oscillator:With adjustable Amplitude & Frequency (300Hz -3.4 KHz) Audio Output: Amplifier with speaker Modulator: Balanced Modulator with Band pass filter (1MHz) - 2Nos. Balanced Modulator (455KHz) -1 No. Ceramic Bandpass Filter -1No. Carrier Frequency :- 1MHz (crystal controlled) Accessories : Line cord, Mannual, Set of patch cords	03
					DSB/SSB AMPLITUDE RECIVER TRAINER	DSB /SSB Amplitued Modulation Transmitter Trainer :- Audio Oscillator:With adjustable Amplitude & Frequency (300Hz -3.4 KHz) Audio Output: Amplifier with speaker Modulator: Balanced Modulator with Band pass filter (1MHz) - 2Nos. Balanced Modulator (455KHz) -1 No. Ceramic Bandpass Filter -1No. Carrier Frequency :- 1MHz (crystal controlled) Accessories : Line cord, Mannual, Set of patch cords	03

					FREQUENCY MODULATION DEMULATION TRAINER	<p>Frequency Modulation Demodulation Trainer :- Audio Oscillator : With adjustable Amplitude & Frequency (300Hz -3.4 KHz) FM Modulator : 2 Nos. 1. Reactance Modulator (with carrier Frequency adjustment) 2. Varactor Modulator (with carrier Frequency adjustment) Mixer/ Amplifier : 1No. (with Gain adjustment) Allows FM input signal to be amplitude modulated by a noise input prior to demodulation. Transmitter output Freq. : 455KHz FM Demodulator : 5 Nos. 1. Detuned Resonant Detector 2. Quadrature Detector 3. Foster - Seely Detector 4. Radio - Detector 5. Phase Locked Looked Loop Detector Accessories : Line cord,</p>	03
						Manual, Set of patch cords	

					FM RADIO TRAINER	FM Radio Trainer :- Construction: Super Heterodyne Tuning Range : 88 MHz to 108 MHz Inter Mediate Freq. : 10.7 MHz Pilot Frequency :- 19KHz Circuit Block: 1. FM Detector 2. Stereo Detector 3. Stereo Pre - Detector 4. Audio Power Amplifier Tuning : With variable capacitor (Gang) dail marking on board. Receiver Media : Telescopic Antena Amplifire: Class B Amplifier Audio Output : (10W + 10 W) 20 W Speaker : 8 ? (2 Nos.) Switch Fault : 4 Nos.	01
					SATELITE COMMUNICATION TRAINER	Satellite Communication Trainer :- Uplink Transmitter- Transmit three signals simultaneously at each up - linking frequency 2450- 2468 MHz up - linking freq. able by freq. ion switch and LED indication 4MHz clock freq. Wide band RF amplifier. No manual matching required PIC 16F84 - 8 Bit RISC processor based PLL 16 MHz Bandwidth Freq. switch and LED indication FM Modulation of Audio and vidio 5/5.5 MHz Audio & 8MHz Video Modulation Detachable Dish Antena Radiated Power output 25mW (apporx) with poert control Transmit	01
						Audio, Video , Digital / Analog data , Tone, Voice, function generator waveforms etc Separate terminals provided for different inputs included Accessories: 1. BNC to BNC Small 2. Audio- Video Cable 2 Pin 3. BNC to Banana 4. Patch cord 8" 5. Microphone 6. Mains cord 7. Pencil cell 8. Desh Antena 9. Plastic Box of Antena 10. Cable RS 232 11. Cable RS 231 (2m 91fm) 12. CD - Rom 13. CD -	

					COMMUNICATION DEMONSTRATOR TRAINER	Communication Demonstrator Trainer :- Operating Modes- Channel I, Channel II, Channel I & II nate or chopped (approx x. 350 KHz), X-Y operation (Ratio 1:1 Input via CHII),Add/ Sub CH I+- CH II , Invert CHII Vertical deflection (Y)- (Identical Channels):- Bandwidth:- DC -30MHz (-3db) DC - 40MHZ (-db) Risetime:- 17.5 ns (apporox), Deflection coefficients:- Micro-controller based 12 calibrated steps 5 mV / Div - 20/ Div (1-2-5 sequence) . Electronic control, Display on 80 Character backlit Alphanumeric LCD. Accuracy: +- 3%, Hold -Off: Variable Conrtol Stable triggering, Input Impedance: 1 M ? II 30 pf (approx.) Input coupling: DC- AC -GND , Maximum	01
						Input Voltage: 350V (DC + peak AC) Included Accessories :- 1. Manual 2. BNC- Test Prod Cable 3. BNC- Crocodile Cable 4. Test Prod 5. PC Control Software CD 6. Understanding Oscilloscope CD.	

No	No	01/08/2012	150000.00	Shopping	DSP LAB TRAINER	Other hardware: External 5 V DC power supply IEEE 1284 compliant male - to femle to female cable Hardware Lock CD: Code Composer Studio DSK tools, DSP Lab 2.0 Other Accessories : Audio cables, Head Phone, Microphone, Installtion Manual, Experiments Workbook MATLAB 7.0.4 (Trial version for 30 day) Technical reference guide for TMS320C6713 DSP onboard that allows fullspeed verification of code with Code Composer Studio. The C6713 DSK provides: AUB Interface SDTAM and ROM An anlog interface circuit for Data conversion	10
						(AIC) An I/O port Embedded JTAG emulation suppoty	

No	No	01/08/2012	300000.00	Shopping	MICROWAVE BENCH	Gunn Power Supply ,16X2 Characters LED ,V 0-10 V, 750 mA ,Modu. Req. 800 To1200 Hz ,Continuous Wave , Int. Modu. Square Wave Audio & PC Modu. PC Interface RS 232 BNC For Gunn Bias N-Type Connector fot pin Bias Power Supply 220v. $\pm 10\%$,50Hz. Display : SWR 1 - 9,db 0- 10,Modes : normal , Audio PC-interface. ,Gain Control : Adjustable the reference level , variable range 0-10db.,Input Connector : BNC (F) , Input Frequency : 1000Hz $\pm 10\%$, Power Supply : 220v $\pm 10\%$, 50Hz., Gunn Oscillator :1, Pin Modulator :1, Isolator : 1,Frequency Meter (Direct Readdout) : 1, Fixed Attenuator 3 db, Varible Attenuator :1 , Slotted Section : 1, Tunable probe:1,detector Mount :1 Movable Short :1, Matched Tramination :1 , Waveguide Stand :4, S.S. Tuner :1, Fixed Short :1, Magic Tee Phase Shifter , Accessories : Cooling	05
						Fan :1, BNC toBNC Cable :1 , BNC to Open Cable:1, Smith Chart :100. Accessories : Line cord, Manual, Set of patch	

No	No	01/08/2012	440000.00	Shopping	MICROCONTROLLER DEVELOPMENT SYSTEM	Microcontroller Development System & Interface Moduel : MC 01 ADC/DEC moduel, MC02 Computer interface moduel, Serial Communication : RS 232 Port Baud rate : 9600 bps MCU : AT90S8515 Crystal frequency : 11.0592 MHz Size of Breadboard : 175 67 8mm Tie Points: 1685 Test Point :40 DC Power Supply : +12V,-12V, +5V & -5 V Programmer unit : Ready to run programmer will program AT89C51/52 & 55 Device Power Supply : +-220 V 10% , 50Hz Power consumption : 20VA (approx) 105 Included Accessories: RS- 232 serial cable , Mains cord , Operating and Experimental manual 2mm Patch cords Four 20 Pin FRC cable , One 10 pin	36
						FRC cable Software CD	

					MICROCONTROLLER PROGRAMMER	Universal type device support more than 6000 USB interface built in digital IC tester. Accessories : Line cord, Manual, Set of patch cords	08
No	No	01/08/2012	400000.00	Shopping	8085 MICROPORCESSORE TRAINER KIT	8085 CPU operating at 6.144 MHz ,8Kb of monitor Program , 8Kb of RAM with Battrery back up 2 Nos 8255,8253,8251,8259, Peripheral Interfece, ADC0809,DAC0800,relay, opto Coupler, Speaker Interface. User mannual with practical & circuit diagram & connecting patch cords.	30
					PROGRAMMER & SIMULATOR KIT	8085 BESED Minimum 800 MHz processor, 64MB of RAM.	10
No	No	01/08/2012	655000.00	Shopping	OPTICAL FIBER KIT	FS1 : 3 ft of .25mm, .55mm, .75mm, 1mm & 2mm Unjacketed fiber. 6" of our SGS7 , 1 ft of the EG25 Endglow cable, 1 ft of LG5-32, 1 ft of LG64, 1 ft of E1000 Simplex,6" , . * Fiber Optic Inventors Kit . Kit includes with 1 ft of EG32 Endglow	20
						cable, 1 ft of SGS3 Sideglow Cable, 3 ft of U1000 fiber, FO-75 End- piece, Push-Pin, Foam Core, Mini Nova RGB light unit w/ tilt switch, PC-2 Cutter, Suction cups, . * FSK-2 1mm plastic fiber to AMP . get 8 ft , 1 Pocket Cutter, DNP AMP Connectors: 43-1, 42-1, 46- 1, 87-1, & 51-1. 1- LED Red/Blue Flasher, . * FCK 1 Fiber Craft Kit, this Kit comes with 1 Dual LED Blinker with R/B (9v battery included), 1 ft of EG50 Endglow cable, Tubing, 2 ft of LG62,,Fiber Rainbow Lighting Kit: 1.) Mini Rainbow Driver, with 7 Color Measures: 3 1/4 x 5/8",	

					RF SIGNAL GENERATOR	N9310A RF SIGNAL GENERATOR , 9 kHz-3GHz Professional Performance compact size for general purpose testing needs : 9kHz to 3ghZ CW output, 20hZto 80 kHz low frequency (LF) output , -127 to +13 dBm output level range (maximum +20dBm settable) , -95 dBc/hZ SSb phase noise. Complete feature det : Full sweep function : RF (9kHz to 3GHz) / Amplitude (-127 to +13 dBm), LF (20Hz to 80 kHz). Extensive analog modulation : AM,FM, Phase , and Pulse modulation . Optional IQ	03
						modulator, 40 MHz bandwidth.	

					POWER METER	Detector : Silicon detector, Range: 0dBm to - 60 dBm, Disply : 12mm lcd, Wave length : 660&950nm*, Connector: SMA, Accuracy : 0.5 dBm, Power: 9V Battery, Size (mm.): W 100 x D 45xH175	05
No	No	01/08/2013	500000.00	Shopping	SOFTWARE	VLSI LAB SOFTWARE C ++ , XLINK MATLAB ETC.	01
No	No	01/08/2013	1386000.00	NCB	CRO 30 MHZ - 1GHZ	CRO -30MHz-1GHz :- Operating Modes- Channel I, Channel II, Channel I & II rate or chopped (approx x. 350 KHz), X-Y operation (Ratio 1:1 Input via CHII), Add/ Sub CH I+- CH II , Invert CHII Vertical deflection (Y)- (Identical Channels)- Bandwidth:- DC -30MHz (-3db) DC - 40MHz (-db) . Included Accessories :- 1. Manual 2. BNC- Test Prod Cable 3. BNC- Crocodile Cable 4. Test Prod 5. PC Control Software CD 6. Understanding Oscilloscope CD	33
					VLSI DEVELEOPMENT PLATFORM	VLSI Development	10
						Platfrom :- Xilinx Family : SPARTAN 2, XC2S50PQ20 Device Density : 50 K gates, 1728 Logic Cells 2 Crystal 8 MHz & 25 MHz, Master Reset key for hardware reset, Program Key for FPGA reconfiguration EPROM Socket : in PLCC package for FPGA backup Configuration Methods: JTAG Interface (Boundary Scan), Slave Serial Interface, PROM Interface External I/O's : 40 pin, 4 header connector Number of I/O's : 176 Power Supply : 220/110V, 50 Hz / 60 Hz Power Consumption : 2.5 VA (approx. User manual with practical & circuit diagram & connecting patch cords.	

					FUNCTION GENERATOR	Function Generator 1MHz - 5MHz :-Operrating Modes (Function):- Sine, Square, Triangle, Ramp, Pulse and TTL Frequency Range: 0.5 Hz MHz in 7 Steps (variable) Ferquency Accuracy : +- 0.5 % digits. Sine wave Distortion : 1.0 % typical Square wave / Pulse Rise & Fall time: < 50ns. Pulse Duty Cycle: 15 % -85 % var. (min. width 200 ns) Triangle Non - Linearity : < 1% (typical) Frequency Display : LCD contrlled by Menu Keys. Out Put Impedance : 50?	37
						Out Voltage: 20 Vpp Open Circuit Attenuation: 20,40 dB (Fixed) and 20dB (Variable in between) Level Flatness : +_ 0.2dB up to 500KHz , and +_ 0.5 dB upto 5, MHz DC Offset: +_ V (approx.)adustable Internal Sweep : Sweep width : approx 1:100 Sweep Speed: 20ms -4s Modulation: AM Blande, AM Standard, FM & PWM Modulation Modulation Input :2 Vpp max. Included Accessories:- 1. BNC to BNC Cable 2. Mains Co	

No	No	01/08/2012	685000.00	Shopping	TORSION TESTING MACHINE	Its should be capable of conducting Torsion and Twist Test on various metals, wires, tubes and sheet materials. Torque measurement can be done by appropriate dynamometer Torque ranges shell be adjusted. It should be applied to specimen by geared motor through a gearbox. Auto- graphic recorder shall be provided to know the relation between torque and angle of twist on the test specimen.	01
					BRINELL HARDNESS TESTING MACHINE	Testing Machine Load range 500-3000kgf in stages of 250, digital display automatic loading & releasing, printer facility	01

					IMPACT TESTING MACHINE	ParticularsCharpy & Impact TestIzod Test Pendulum angle 130 – 150o 80 -90 o□ Pendulum effective weight 20-25 kg20- 25 kg Pendulum speed5 - 8 m/s3 - 5 m/s Pendulum impact energy 25 - 35 kg-m 15 - 20 kg-m Min Graduation0.2 kg - m0.1 kg-m Distance of axis of hammer rotation and center of test piece / point of test piece hit by hammer800 - 1000 mm800 - 1000 mm Max. permissible loss by friction and windage etc. 0.5% of max impact energy0.5% of max impact energy	01
					FATIGUE TESTING MACHINE	Maximum Bending moment – 200-250 Kg cm. BENDING MOMENT ADJUSTASBLE: - 25 - 125 Kg Cm. Range:- 25 – 125 kgs cm with least count 1 Kg cm . Gripping Diameter of Specimen - 5 - 10 mm. Accuracy of Bending Moment +/- 1%.Digital	01
						Counter Number of Digits – 10.Power required: 0.5 - 1.0 HP. Main supply – 3 phase, 440V, 50 Hz A C.	

					SPRING TESTING MACHINE	Capacity: - 1.5 - 2 Tons. For testing / measuring the compression / tension of springs. The machine is provided with both drives i.e. motorized as well as hand operated for most accurate working	01
					CUPPING TESTING MACHINE	Capable to perform cupping cone test on various sheet metals, thickness not more than 4 mm.	01
					VICKERS HARDNESS MACHINE	Test loads 5,10,20,30,50 KG magnification 70x	01
					COLUMN TESTING MACHINE	8Column testing machine Technical Data Test bar length: max. 700mm Bore of the probe receptacle: D=20mm Test force: max. 2000N Stroke of the load spindle: max. 10mm Shear load: max. 20N Lateral deflection: max. 20mm Measuring ranges - dial gauge: 0...20mm, graduation: 0.01mm - load transducer: 0...2500N, graduation: 50N Dimensions and Weight l x w x h : 620 x 450 x 1150 mm Weight : approx. 65kg	01
No	No	01/08/2012	570000.00	Shopping			

					CUT SECTION OF HERMITICALLY SEALED COMPRESSOR	All the components should be clearly visible& labeled. The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students.	01
					CUT SECTION MODEL OF ACTUAL DOMESTIC REFRIGERATOR	All the components should be clearly visible& labeled. The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students.	01
					REFRIGERATION TUTOR TEST RING	Equipped with 1) Compressor 2) Air Cooled Condenser 3) Expansion Device 4) Rotameter 5) Refrigerant Used. R- 134 a. 6) Energy Meter. 7) Ammeter having Range 0-15 amp. 8) Dimmer stat . 9) Pressure Gauges. 10) Digital. Temperature Indicator 11. Solenoid	01
						Valve 12 H.P.L.P. Cut- Out 13) Thermostat 14) Service Valves as per requirement	

					MECHINCAL HEAT PUMP TEST	The Experimental setup should be equipped with Hermitically sealed compressor,Water Cooled Condenser/ vaporator Type Hand Shut off Valves Size ¼ Inch, Filter Drier, Energy Meter, Thermostat, Digital Temperature Indicator, Sump Tank, Pump and Powder Coating Material.	01
					AIR & WATER HEAT PUMP TEST RIG	COMPRESSOR :1/3 ton WATER COOLED CONDENSER,WATER COOLED EVAPORATOR,AIR COOLED CONDENSER,AIR COOLED EVAPORATOR,REFRIGERANT SIGHT GLASS, HAND SHUTT OFF VALVES, FILTER DRIER, ENERGMETER, ANEMOMETER, COMPOUND & PRESSURE GAUGE, VOLTAGE STABILIZER and other measuring Instruments	01
					VAPOUR ABSORPTION SYSTEM TEST RIG	The equipment consists of a Vapour Absorption type Refrigerator (Electrolux type) mounted on a portable table with metal panel.	01
						The fluid (refrigerant) utilized is mixture of ammonia (NH3), water & hydrogen contained in a suitable sealed circuit & is externally heated by a resistance type electric heater. SYSTEM COMPONENTS: Refrigeration cabinet with Absorber, Condenser, Generator, Evaporator & electric heater. Measuring Instruments :- Digital Temperature Indicator : -30 to 200o Digital voltmeter : 0 to 300 V AC Digital ammeter : 0 to 10 Amp AC	

					COOLING TOWER TEST RIG	08 COOLING TOWER TEST RIG 01. Cooling Tower a) Size: 250 x 250 mm b) Height: 1000 mm c) Material: Aluminum body with acrylic frame D) Packing Sheets: Perforated Aluminum corrugated 02. Blower a. Capacity: 1HP 03. Geyaser a. Capacity: 3KW 04. Digital Temperature Indicator: a. No. of Digits :4 Digits 0 b. Range: Ambient to	01
						200o 05. Thermocouples a) Length: 2 m. b) Type: Cr. Al c) Sheathing: Wire mesh sheathing 06. Air Flow measurement: U Tube Manometer a. Material: Glass b. Size: 300mm c. Media: Mercury 07. Water flow measurement: Rotameter a. Range: 0 to 60 cc/sec 08. Calibrated water tank a. Material: S.S/18 Swg b. Size: 200 x 250 09. Starter	

No	No	01/08/2012	749000.00	Shopping	5 AXIX ROBOTICS ARM SYSTEM	Gripper Joint rotation : 180 degrees Bicep to elbow Pivot holes C/L (centerline) to C/L: 6". Elbow to wrist Pivot holes C/L to C/L : 5" Wrist pivot hole C/L to center of gripper: 4" open, 7" close Wrist pivot hole C/L to end of gripper : 6 open,9" close Weight (including servos) : 2.5 lbs Maximum lift capability : 300.00g or higher	01
					HEX CRAWLER ROBOT	Ground Clearance 4" Payload Capacity 10 lbs Electronics Parallax Board of education(BOE)	01
						Parallax Servo Controller (PSC) Cored Metal Brush Motor Weight 2 kg	

					THE MECHATRONICS ROBOT	Degrees of freedom 15 axes (6 for arms x 2, 2 for neck, 1 for waist) Payload (TCP) 1.5 kg (one arm)3.0 kg (two arms) Position stabilization time Within 0.5 sec Positioning repeatability Within 30 µm Weight 30 kg	01
					ULTRASONIC RANGE FINDER	Range: 2-5m, 6/9V dc supply,Current- 100-300 mA should be equipped with visible indicators and plug & play cables	01
					SERVO POWER SUPPLY	Capacity - 1KVA, input voltage 200 – 300 V, output voltage 220 -230 v.	01
					INFRARED OBJECT/DISTANCE DETECTOR	Physical Attributes Dimensions [IR Unit] 2" x 3/4" x 7" Dimensions [Conditioner] 2" x 7/8" x 3/8" Encasement Protective Heat sink Temperature Range -30°C to 100°C Sensing Specifications Physical Range Approximately 20-200cm Response Time Approximately 40ms Electrical Specifications Voltage Source 5 Volts Minimum Current Source 80 mA Voltage Returned by Sensor 0.25 Volts to 4.75	01
						Volts	

					A 7.2V BATTERY CHARGER	Size: 6 AA Cells, configuration: Side by Side Capacity: 700 mAh Voltage: 7.2V	01
					BLUE TOOTH TRANSDUCER	It should be highly Sensitive, Linear output, Resonance frequency 30 KHz, Sampling frequency 50KHz , Power – 2 AAA Alkaline batteries.	01
					BLUE TOOTH PC ADAPTOR	1.USB 3.0 Bluetooth Adapter 2.Rate: 3Mbps 3.Package Weight: 30 gm 4.Support Voice Data	01
					VARIOUS WOODEN ARM MODULES	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Also enclose the model design, catalogue and other necessary details. Exclusively for Educational purpose for the arm movements of 1.Scara robot 2.Gantry robot 3.Articulated robot 4.Rectangular coordinate robot 5. Cylindrical coordinate robot 6.Spherical coordinate robot etc	10
					MODULES	Bluetooth Transceiver Module Frequency: 2.4 GHz Transmit Power: 4dBm (max) Open field range: 10m. Easy integration with the	01
						microcontroller for point Communication. Seamless connectivity with standard Bluetooth devices. Perfect for wireless cable replacement.	

No	No	01/08/2012	900000.00	Shopping	TEXT BOOKS	Books related to the various branch of Engg. in the institution.	2000
					REFERENCE BOOKS	Books related to the various branch of Engg. in the institution.	100
					JOURNALS	Books related to the various branch of Engg. in the institution.	20
No	No	01/08/2012	691000.00	Shopping	EXHAUST GAS ANALYZER	GAS FLOW RATE: 1 Liter/Min. (adjustable) SAMPLING HANDLING SYSTEM: SS probe, tubing with easily detachable connectors, water Separator cum filter, disposable particulate fine filter. SAMPLING HANDLING SYSTEM: With a built – in pump. OTHER FEATURES: (1) ion of fuel type (2) Auto fresh air intake during auto zero. 3) Line leak check facility. (4) CO	01
						correction. PRINTER OUTPUT: CO, O2, CO2 in %. HC & NO in ppm. OPERATING TEMPERATURE: 5 – 45o. POWER SUPPLY: 230 V or 10 V / 12 V battery.	

					<p>CUT SECTION MODEL OF FOUR CYLINDER FOUR STROKE CAR ENGINE (PETROL) WORKING (AMBASSADOR)</p>	<p>The model is made out of full size original four stroke, four cylinders, and used car engine. Maximum parts and accessories like three of the cylinder, cylinder head, inlet and Exhaust manifolds, Fuel pump, oil pump, etc. are sectioned to show the internal constructional details, miniature bulbs are provided with spark plug to show the sequence of firing order, while the engine is running for demonstration. This is made upto Flywheel and is mounted on a sturdy iron frame. The model is coupled to a F.H.P single phase 220/230 V A.C. Motor through a Reduction gear unit to get the low speed rotation of the Flywheel and the engine (around 15 to 20 rpm).</p>	01
					<p>CUT SECTION MODEL OF FOUR STROKE SINGLE CYLINDER DIESEL ENGINES</p>	<p>The model is made out of used single cylinder Diesel engine. Maximum parts such as piston, cylinder, cylinder head, inlet and Exhaust manifolds, Fuel Injection pump, oil pump, Fuel Filter, Injector, etc., are sectioned to show the internal constructional</p>	01
						<p>details of the engine. The working of individual parts and accessories like Valves, piston, pumps, Crank, Camshaft, etc., can be demonstrated. This model is fixed on a sturdy iron frame.</p>	

					CUT SECTION MODEL OF TWO STROKE SINGLE CYLINDER PETROL ENGINE (WORKING)	This model is made out of used engine, suitably sectioned to show the internal construction of the engine, gear box, clutch and rear wheel mechanism and the model is fitted on a sturdy iron frame. The complete internal details can be demonstrated by operating the kicker lever to show the working of the piston, sparks from the spark plugs can also be shown.	01
					DEMONSTRATION BOARD OF IGNITION SYSTEM OF AN AUTOMOBILE 4 WHEELER (WORKING)	This open demonstration- working unit is made out of original used parts such as switches, ignition coil, Distributor, four spark plugs and a battery for power source, with necessary wiring connections. By switching on the switch and by giving rotation to the Distributor, Sequential Sparks in the spark plugs can be demonstrated.	01
					DEMONSTRATION BOARD OF FUEL SUPPLY SYSTEM OF A PETROL ENGINE	This demonstration board consists of cut sectioned used parts such	01
						as tank, petrol pump, Filter, Carburetor, etc., to show the Fuel supply system	

					DEMONSTRATION BOARD OF FUEL SUPPLY SYSTEM OF DIESEL ENGINE	This demonstration board consists of cut sectioned used parts such as Fuel tank, Filter, Fuel Injector with Atomizer, etc., to show the Fuel supply system.	01
					CUT SECTION MODEL OF MECHANICAL BRAKE SYSTEM (WORKING)	This model is made out of original used parts such as Brake drum, Brake Shoes, Brake peddle, etc., suitably sectioned and mounted on a wooden base. By operating the Brake drum and applying the Brake pedal this model can be demonstrated.	01
					WORKING MODEL OF FOUR CYLINDER FOUR STROKE MPFI CAR ENGINE (PETROL) CUT SECTION	The model is made out of full size original four stroke, three cylinders, used MPFI car engine. Maximum parts and accessories like three cylinder, cylinder head, inlet and Exhaust manifolds, Fuel pump, oil pump, MPFI accessories such as Throttle body, petrol injector, fuel pump module etc. are sectioned to show the internal constructional details, miniature bulbs are provided with spark plug to show the sequence of firing order, while the engine is running for demonstration. This is made up to Flywheel and is mounted on a sturdy iron frame. The model is coupled to a F.H.P single	01
						phase 220/230 V A.C. Motor through a Reduction gear unit to get the low speed rotation of the Flywheel and the engine (around 15 to 20 rpm).	

					CUT SECTION MODEL OF CENTRIFUGAL CLUTCH (HONDA ACTIVA)	This model is made out of original New parts, will be suitably sectioned to demonstrate the internal construction details showing the minute information, and working of the same, the model will be suitably painted and mounted on a navopan wooden base.	01
					CUT SECTION MODEL OF ALKALINE BATTERY	This model is made out of original used parts, will be suitably sectioned to demonstrate the internal construction details showing the minute information, and working of the same, the model will be suitably painted and mounted on a wooden base.	01
					DEMONSTRATION BOARD OF ELECTRONIC IGNITION SYSTEM OF AN AUTOMOBILE4 WHEELER (WORKING)	This open demonstration working unit is made out of original used parts such as switches, Electronic ignition coil, Distributor, four spark plugs and a battery for power source, with necessary wiring connections. By switching on the switch and by giving rotation to the Distributor, Sequential Sparks in the spark plugs can be demonstrated.	01
					CUT SECTION MODEL OF DISC BRAKE SYSTEM TWO WHELLER	This model is made out of original used parts, will be suitably sectioned And Arranged to demonstrate the internal construction details showing the minute information such as the disc brake assembly, master cylinder on the handle, its piping, front wheel assembly with disc, handle bar with cylinder and brake lever etc., and working of the same can be show by operating the brake lever, the model will be suitably painted and The entire model is mounted on a sturdy iron frame.	01

					SINGLE CYLINDER 2 STROKE PETROL ENGINE FOR PLOTING PORT TIMING DIAGRAM	The actual working model of Single Cylinder, 2 - Stroke petrol engine should be equipped with all necessary attachment to plot the Port timing diagram. It should also be thoroughly sectioned to see the working of inner components.	01
					SINGER CYLINDER 4 STROKE DIESEL ENGINE FOR PLOTING VALVE TIMING DIAGRAM	The actual working model of Single Cylinder, 4 - Stroke diesel engine should be equipped with all necessary attachment to plot the Valve timing diagram. It should also be thoroughly sectioned to see the working of inner components.	01
					SINGLE CYLINDER 2 STROKE DIESEL ENGINE FOR PLOTING PORT TIMING DIAGRAM	All the parts should be Labeled. In this model the working of engine is shown with the help of actual parts assembled on a angle iron frame. This model helps the student to understand the working of the actual engine and port timing very easily. The model will be supplied with very interesting literature regarding working of the engine and Drawing of Port Timing Diagram	01

					CUT SECTION MODEL OF TWO STROKE SINGLE CYLINDER DIESEL ENGINES.	The model is made out of used single cylinder Diesel engine. Maximum parts such as piston, cylinder, cylinder head, inlet and Exhaust manifolds, Fuel Injection pump, oil pump, Fuel Filter, Injector, etc., are sectioned to show the internal constructional details of the engine. The working of individual parts and accessories like Valves, piston, pumps, Crank, Camshaft, etc., can be demonstrated. This model is fixed on a sturdy iron frame	01
					SINGLE CYLINDER 4 STROKE PETROL ENGINE FOR PLOTING VALVE TIMING DIAGRAM	The actual working model of Single Cylinder, 4 - Stroke petrol engine should be equipped with all necessary attachment to plot the Valve timing diagram. It should also be thoroughly sectioned to	01
						see the working of inner components.	

					INTERNAL AND EXTERNAL SHOE BRAKE COMPLETE SET WITH ACCE	This model is made out of original used parts such as Brake drum, Brake Shoes, Brake peddle, etc., suitably sectioned and mounted on a wooden base. By operating the Brake drum and applying the Brake pedal this model can be demonstrated.	01
No	No	01/08/2012	240000.00	Shopping	UNIVERSAL VIBRATION APP.	THE UNIT IS SUPPLIED WITH FOLLOWING EXPERIMENTS Oscillation of simple pendulum Oscillation of compound pendulum. Radius of gyration of Bi- Filar suspension. Undamped torsional vibration of single rotor system. Damped torsional vibration of single rotor system. Undamped torsional vibration of double rotor system. Free vibration of helical coiled spring. Free vibration of spring mass system. Forced damped vibration of a spring mass system. Lateral vibration of simply supported beam.	01
						Verification of Dunker ley's rule	

					MOTORISED EPICYCLIC GEAR TRAIN AND HOLDING APP.	External type Epicyclic gear train. Bearing block for input and output shafts are mounted on a base frame. A gear train with holding drum and a handle. B) Internal type Epicyclic gear train. i) A compact gear train. ii) Variable speed D.C shunt motor - 1 HP. 1500 rpm, 230V.iii) Rope brake arrangement to measure output torque and holding torque. C) Control Panel consisting of: a) Digital Ammeter & Voltmeter. b) RPM Indicator. c) On-Off switch. d) D.C. dimmer stat for varying speed.	01
					MOTORISED GYROSCOPE	Disc rotor - 30 cm dia, 10mm thick (approx) Drive - Ac/Dc Single phase Motor overall size - 30 cm Dia., base, 50 cm Height Approx. weight of unit - 30 kg. Digital hand tachometer ; 0- 5000 rpm. speed controller to control to control the speed	01
					(UNIVERSAL)GOVERNER APP	Drive unit D.C. motor 1/4 H.P., 0- 1500 rpm, 220 V.D.C Speed control unit working	01
						on single phase AC 230V supply with 0- 200 VDC output. Belt and pulley system to give spindle speed 100 to 500 rpm. Governor mechanisms with necessary springs and weights as follows: (1) Watt, (2) Porter, (3) Hartnell, (4) proell	

No	No	01/08/2012	540000.00	Shopping	TWO CYLINDER TWO STAGE RECIPROCATING AIR COMPRESSOR TEST RIG	No. Of Stages: Two No. Of Cylinders Intercooler :One Power Rating: 3 Hp Displacement: 300 Lpm (Approx) Max. Working Pressure: 12 Kg/Sq. Cm Motor Power Rating: 3 Hp, 440 V, 50 Hz, 3 Ph, Ac Air Intake: Air Drum / Orifice Plate / 'U' Tube Manometer Controls: Pressure Switch, Safety Valve, Air Delivery Valve , Water Drain Valve Measurements: Digital Temperature Indicator Speed: Digital Rpm Indicator Pressure Guages Power: Energymeter Pannel: M.S. Pannel With Powder Coating Frame: M.S. Square Tube	01
					AXIAL FLOW COMPRESSOR WITH FLOW DISCHARGE TUNNEL	Equipped with Compressor – Rotor - standard aerofoil section Guide vanes - Flat guide vanes, Butterfly Valve on discharge side. Rotor, Guide vanes and butterfly valve are housed in a duct. Orifice meter. Pressure tapping at inlet & discharge with Motor. Water manometer, Energy meter	01

					CUT SECTION MODEL OF LA - MONT BOILER	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Also enclose the model design, catalogue and other necessary details. Exclusively for Educational purpose	01
					CUT SECTION MODEL OF BENSION BOILER	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Also enclose the model design, catalogue and other necessary details. Exclusively for Educational purpose	01
					CUT SECTION MODEL OF VELOX BOILER	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Also enclose the model design, catalogue	01
						and other necessary details. Exclusively for Educational purpose	

					EXPERIMENTAL SETUP OF FLAT PLATE COLLECTOR WITH SOLAR PUMP	Collector Size : 2030 mm L x 1030 mm W x 100 mm H Number of fins : 9 Nos. Maximum Working Pressure : 6 kg / sq. cm Absorber Material : Electro Grade-Copper-Copper Copper Quality : 99.99% 0.02 Pure Absorber Coating Black Chrome Copper Sheet Riser Tubes & Header Tubes : Copper tube Absorber Flanges Absorber Area : 2 sq. meter + 0.1 sq. meter / collector Collector Box : Extruded Aluminum Solar Section 100 mm x 25 mm Collector Bottom Sheet : Aluminum, thickness 0.71 mm Glazing : Toughened glass, Thickness 4 mm	01
					EXPERIMENTAL SETUP OF FOCUSING TYPE PARABOLIC SOLAR COLLECTOR	Type of Focus : Point Lens or Mirror : Mirror Sun's Concentration : >1000 Tracking : Yes Typical Application :Electricity	01
					SOLAR MODULES PANELS - 20 ,40, 110, WATT	solar modulus of-20 watt 40 watt , 110 watt capacity	01
No	No	01/08/2012	520000.00	Shopping	WORKING CUT SECTION MODEL	This model is made out of	01
					OF DRUM BREAK UNIT	original parts such as Two Brake drum assembly, two master cylinder (one sectioned), wheel cylinders (one sectioned), Brake Shoes, etc., the model can be demonstrated by operating the lever provided	

					CUT-SECTION MODEL OF DEMONSTRATION CHASIS WORKING WITH ELECTIRCALS OF A CAR	The model is made out of full size original used car chassis consisting of the four-stroke three-cylinder petrol engine. The model must be capable of to show the following systems :- TRANSMISSION SYSTEM, FUEL SYSTEM, EXHAUST SYSTEM, LUBRICATION SYSTEM SUSPENSION SYSTEM, BRAKING SYSTEM, STEERING MECHANISM, ELECTRICAL SYSTEM	01
					CUT SECTION MODEL OF STEERING GEAR BOX (WORKING) WITH WHEEL AND AXLE:	This model is made out of full size original parts, suitably sectioned and to demonstrate the working of Steering wheel worms, Steering arm, etc., The Arrangement Of Wheels And Axle Connecting To steering system will be done so the movement of the wheels when rotating the steering wheels can be displayed.	01
					CUT SECTION MODEL OF SYNCHRONOUS GEAR BOX (WORKING):	This is made out of original full size used gearbox, suitably sectioned to show the details of gear mechanism of forward and	01
						reverse speeds. A Crank lever is provided to demonstrate the mechanism. Complete unit is mounted on a sturdy iron frame.	

					CUT SECTION MODEL OF SLIDING MESH GEAR BOX OF TATA VEHICLE (WORKING):	This model is made out of original full size used gearbox, suitably sectioned to show the gear mechanism of forward and reverse speeds. A Crank lever is provided to demonstrate the mechanism. Complete unit is mounted on a sturdy iron frame	01
					CUT SECTION MODEL OF FULLY FLOATING DIFFERENTIAL AND REAR WHEEL MECHANISM (WORKING):	This model is made out of original used heavy vehicle parts, suitably sectioned to show clearly the action of Differential gear box, such as pinion crown wheel in Differential and Brake drums in Rear axle, A Crank handle is provided to demonstrate the model. The model is mounted on a sturdy iron frame.	01
					CUT SECTION MODEL OF THREE QUARTER FLOAT DIFFERENTIAL AND WHEEL MECHANISM (WORKING):	This model is made out of original used light vehicle, suitably sectioned to show the action of Differential gear box and Brake drums in Rear axle. A Crank handle is provided to demonstrate the model. The whole model is mounted on a sturdy iron frame	01
					MODEL OF AIR BRAKE SYSTEM WORKING	The model is made out of Original parts such as Air	01
						compressor, Unloaded valve, foot valve, Booster, Wheel assembly, air tank, control valve etc The Brake system will be fitted with two front wheel assembly complete (with out axle) and the drum will be suitably sectioned to show the working of the brake shoe.	

					CUT SECTION MODEL OF DISC BRAKE SYSTEM: (working):	The Model is made out of Original parts such as Two Brake disc, two Caliper assembly (one sectioned), two master cylinder (one sectioned) etc, the model is mounted on a sturdy iron frame and can be demonstrated by operating the lever provided.	01
					CUT SECTION MODEL OF SINGLE PLATE COIL SPRING CLUTCH SYSTEM (WORKING):	This model is made out of original used parts such as Flywheel, Clutch plates, etc. to demonstrate the working of clutch assembly. By operating the pedal provided the model can be demonstrated. The entire model is mounted on a sturdy iron frame.	01
					CUT SECTION MODEL OF DIAPHRAM CLUTCH SYSTEM (WORKING):	This model is made out of original parts such as Flywheel, Pressure Plate, Clutch plates, etc. to demonstrate the working of diaphragm clutch assembly. By operating the pedal provided the model can be demonstrated. The entire model is mounted on	01
						a sturdy iron frame.	

					CUT SECTION MODEL OF COMPELETE FRONT SUSPENSION WITH LONGITUDINAL TORSION BAR..	This model is made out of original used parts, will be suitably sectioned And Arranged to demonstrate the internal construction details showing the minute information With Suspension System with longitudinal torsion bar arrangement, shock absorber, etc., and working of the same can be shown, the model will be suitably painted and The entire model is mounted on a sturdy iron frame.	01
					CUT SECTION MODEL OF COMPELETE ONE SIDE MACPHERSON SUSPENSION STRUT WITH DRIVE SHAFT, DISK BRAKE.	This model is made out of original used parts, will be suitably sectioned And Arranged to demonstrate the internal construction details showing the minute information With Suspension Strut with spring and shock absorber, disc brake, calipers, drive shaft etc., and working of the same can be shown, the model will be suitably painted and The entire model is mounted on a sturdy iron frame.	01
					CUT SECTION MODEL OF PUMPS.	This model is made out of original used parts, will be suitably sectioned to demonstrate the internal construction details showing the minute information, and working of the same, the model will be suitably painted and	01
						mounted on a navopan wooden base. The various models of the Pump are 1) Fuel Pump diaphragm type 2) Oil Pump External 3) Oil Pump internal4) Vaccum Pump (Vane type) 5) Piston Pump (air Compressor) 6) Water pump 7) Rotary pump	

					MODEL OF HYDRAULIC BRAKING SYSTEM WITH VACCUM BOOSTER (TATA INDICA).	The model will be made out of Used TATA Indica brake aggregates which will be suitably sectioned, Left Front disc and Left rear drum will be made working, using necessary hydraulic connection from the Master cylinder, By operating the brake pedal connected to the Master cylinder through booster, the functioning of disc and drum brake can be demonstrated. All the aggregates will paint finished The entire setup will be mounted on a sturdy iron frame	01
					CUT SECTION MODEL OF FIVE SPEED MANUAL TRANSMISSION (MARUTI 1000CC) (WORKING):	This model is made out of original full size used gearbox, suitably sectioned to show the gear mechanism of forward and reverse speeds. A Crank lever is provided to demonstrate the mechanism. Complete unit is suitably painted and mounted on a sturdy iron frame	01
					CUTSECTION MODEL OF TURBOCHARGER :	This model is made out of full size original parts, suitably sectioned and to	01
						demonstrate the working of turbocharger is mounted on a suitable base.	

					CUT SECTION MODEL OF COMPELETE BOTH SIDE WITH DOUBLE WISHBONE SUSPENSION WITH DRIVE SHAFT.	This model is made out of original used parts, will be suitably sectioned And Arranged to demonstrate the internal construction details showing the minute information With Suspension Strut with spring and shock absorber, disc brake, calipers drive shaft etc., and working of the same can be shown, the model will be suitably painted and The entire model is mounted on a sturdy iron frame	01
					CUT SECTION MODEL OF AIR CONDITIONING SYSTEM OF A CAR. (NON WORKING)	This model is made out of original used parts, will be suitably sectioned And Arranged to demonstrate the internal construction details showing the minute information such as AC compressor, condenser, radiator, its pipe lining, blower/fan assembly etc., the model will be suitably painted and The entire model is mounted on a sturdy iron frame	01
No	No	01/08/2012	635000.00	Shopping	DISPLACEMENT MEASURING TUTOR USING LVDT	LVDT sensor with necessary signal conditioning circuit Micrometer comparison	01
						Scale Manual micrometer driven mechanism for displacement variation Digital Indicator-Least Count:-0.1 mm, Digit:- 3 ½, range-0 to 20 mm Powder coated enclosure	

					PRESSURE MEASUREMENT TUTOR USING PRESSURE TRANSDUCER	Pressure Sensor with necessary signal conditioning circuit (range-0 to 5 Kg / cm ²) Reference comparison pressure gauge with Digital Indicator, Least Count:- 0.1Kg/Cm ² ,Digit:- 3 ½, Foot Pump for Pressure Variation Powder coated enclosure	01
					Temperature measuring tutor using Thermocouple	Water Bath with heating arrangement Thermocouple with necessary Signal conditioning & control circuit Thermometer Digital Indicator Least Count:- 1o Digit:- 3 ½ Powder coated enclosure	01
					TOOL MAKERS MICROSCOPE	Magnification 30 X standard Objective 2 X Eyepiece W F 15X with cross Field of View rectile Working Distance 80 mm Apprx Image Erect Observation	01
						Monocular inclined at 30 deg Stand overall Large and heavy base Measuring stage 150 x 150 mm, Travel up to 25 mm in any direction having Least count 0.01 mm Eyepiece Protector Illumination 6V/ 20W halogen lamp and incident from two lamps with variable control on front panel	

					Strain Measurement Tutor using Strain Cantilever Beam	Cantilever Beam Capacity - 2 kg Material - Mild steel Indicator- Least Count :- 1 Micro Strain Digit:- 3 ½ weights - Max 2 Kg in steps of 100 gm	01
					Torque measuring Tutor using Torque Transducre	Torque lever Length - 0.5 meter Digital Indicator Least Count:-0.1Kg-M Digit:- 3 ½ weights - Max 2 Kg in steps of 100 gm	01
					Temperature Measuring Tutor using RTD Sensor	Water Bath with heating arrangement RTD with necessary Signal conditioning & control circuit Thermometer Powder coated enclosure	01
					Temperature Measuring Tutor using Thermistor	Water Bath with heating arrangement Thermister with necessary Signal conditioning &	01
						control circuit Thermometer Powder coated enclosure	

					Rotameter Trainer Module	1) Sump Tank : Capacity - 150 lits (approx) and powder coating to the outer side. 2) Measuring tank : (with piezometric tube) Material - MS Sheet with FRP lining to the inner side and powder coating to the outer side. 3) Mono-block Pump : 0.5 H.P with necessary piping and control valves. 4) Rotameter : Range - 250-2500 LPH	01
					Dead Weight Pressure Gage Tester	height: 39.5 cm (approximately). Oil required - SAE 10 or 20 or equivalent. Bench area required 40 * 90 cm (approximately). adapters: 3/8" & 1/2" BSP. Pressure Range : 0.5 to 25 Kg/cm ² Least Count: 0.5 Kg/cm ²	01
					Set of M-81 Slip Gage	The blocks are made up of 81 blocks (plus two wear blocks) having dimensions as follows: 9 blocks with 0.0001-in increments from 0.1001 to 0.1009 inclusive, 49 blocks with 0.001-in increments from 0.101 to 0.149 inclusive, 4 blocks with 1-in.	01
						increments from 1 to 4 inclusive. 2 tungsten steel wear blocks, each 0.050 in thick. (Extra)	

					Profile Projector	Glass screen dia: 500 mm, inclination 8o Switches and controls shall be placed up-front for easy access. Projection lenses: 5x to 100x. Stage: Large size stage and rotating tables should be available for handling heavy specimens	01
					Optical Comparator	Glass screen: diameter of 305mm and rotation 360 degrees. XY counter Movable head should allow mounting of larger stages - up to 200x150mm. Controls Panel	01
					Electrical Comparator	Pressure Range: (0-600) bar Stability: 0.05% Full Scale Working Media: Transformer oil Overall Dimensions: 450mmx350mmx135mm Weight: 17.25KG	01
					Optical Flats	Cylindrical pieces 25 to 300 mm in diameter with a thickness of about 1/6th of the diameter Material - transparent material, Flat working surface.	01
No	No	01/08/2012	561000.00	Shopping			

					Model of Lancashire Boiler	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01
					Model of Babcock Wilcox Boiler	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01
					Model of Steam Turbine	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01
					Model of Cochran Boiler	The models should be	01
						mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	

					Model of Locomotive Boiler	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01
					Model of Reducing Valve	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01
					Model of Steam Injector	The models should be mounted on suitable base. It should be large enough to be easily demonstrated	01
						before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	

					Model of Green Economizer	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01
					Model of Steam Engine D Slide Valve	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01
					Model of Spring Loaded Safety Vavle	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed	01
						Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	

					Model of Stop Valve Hopkinson Type	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01
					Model of Blow off Cock	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01
					Model of Feed Check Valve	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with	01
						Detailed specification Exclusively for Educational purpose..	

					Model of Lever Safety Valve	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01
					Model of Dead Weight Safety Valve	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01
					Model of Pressure Gauge	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01
					Model of High Steam & Low water Safety Valve	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01

					Model of Fusible Plug	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01
					Model of Antipriming Pipe	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01
					Model of Superheater	The models should be mounted on suitable base. It should be large enough	01
						to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	

					Model of Cornish Boiler	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01
					Model of Expansion Steam Trap Valve	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01
					Model of Throttle Valve	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students.	01
						Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	

					Experimental Setup of Surface Steam Condenser	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01
					Experimental Setup of Jet Condenser	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01
					Experimental of Reciprocating Compressor	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the	01
						Model with Detailed specification Exclusively for Educational purpose..	

No	No	01/08/2013	495000.00	Shopping	Digital BOD Incubator		01
					Digital Spectrophoto meter		01
					COD Apparatus		01
No	No	01/08/2013	75000.00	Shopping	California Bearing Ratio Apparatus		01
No	No	01/08/2012	675000.00	Shopping	Fall ceiling works	ETE/ Different Labs	01
					Repairing Painting and flooring	Repairing doors and windows painting and distempering of labs, flooring plastering and concreting for various jobs	01
					Foundation of machines	foundation of lab equipment /Machines	01
					Wiring and Electrification	Electrical wiring with new switch boards, power boards , Electrification of CSE, Civil, Mech.	01
					Partitioning of lab and staff rooms	Partitioning CSE,CIVIL, EEE, ETE Lab, ETE, MECH.	01
No	No	01/08/2012	675000.00	Shopping			

					Repairing ,Painting & Flooring	Repairing-doors & windows painting & Distempering of labs, Flooring Plastering and concreting for various jobs	01
					Foundation of Machines	foundation of lab equipment /Machines	01
					Wiring and Electrification	Electrical wiring with new switch boards, power boards , Electrification of CSE, Civil, Mech.	01
					Partitioning of lab and staff rooms	Partitioning CSE,CIVIL, EEE, ETE Lab, ETE, MECH.	01
					Fall ceiling works	ETE/ Different Labs	01
No	No	01/08/2012	321000.00	Shopping	FREQUENCY DIVISION MULTIPLEXER/DEMULTIPLEXER	1.On Board AF Modulating signal generator and Main RF carrier signal generator. 2.On Board Sub- carrier signal generator and Pilot signal generator. 3.Audio input and transmitter amplifiers with required number of demodulators. 4.Test points to access signals at every stage of circuit operation. User manual with practical & circuit diagram and connecting patch chord.	06
					DELTA MODULATION AND DEMODULATION	1.Onboard sin wave and sampling signals.	05
						2.Voice link for above modulation technique using external audio input and output. 3.Low pass butter worth filter and on board generators for different frequency. 4.Test points should be provided on board to observe various intermediate signals. User manual with practical & circuit diagram and connecting patch chord.	

					PAM/PPM/PWM MODULATION & DEMODULATION TECHNICS	1.PAM-PPM-PWM Modulation & Demodulation techniques, using Natural & Flat-top sampling. 2.Analog Sample, Sample & Hold and Flat-top outputs. 3.able 4 different sampling pulse frequencies on board. 4.Voice Communication using dynamic microphone & speaker. 5.On-board Filter and AC Amplifier. 6.Test points should be provided on board to observe various intermediate signals. User manual with practical & circuit diagram and connecting patch chord.	06
No	No	01/08/2012	3926316.00	NCB			

					LECTURE STAND	75X45X135CM WITH ONE SELF 3 SIDE SUNMICA COVERD	02
					WRITING CHAIR	WOODEN WITH ONE WIDE ARM IN RIGTH SIDE	85
					LAB TABLE	SIZE:- 1825X750X760 MM	54
					COMPUTER TABLE	SIZE:- 910X610X728 MM	209
					OFFICE TABLE	SIZE:- 120X75X75 CM	53
					EXECUTIVE REVOLVING CHAIR	SUPERIIO EXECUTIVE REVOLVING CHAIR WITH STEEL BASE, 5 LEGS, HIGH BACK CUSHIONED WITH ARM	39
					STUDENT STOOL	WOODEN STOOL SIZE 35X35X55 CM	320
					ANGLE IRON RAKE	SIZE :-1980X900X380 MM	90
					REVOLVING CUSHION BACK CHAIR	COMPUTER CHAIR REVOLVING WIHT ARMS CUSHION SEAT AND MEDIUM BACK	159
					CUSHION BACK CHAIR WITH HANDLE	COMPUTER CHAIR WITH HANDLES	70
					CABINET ALMIRAH	SIZE :- 1980X915X480 MM	31
					OFFICE CHAIR	CUSHION SEAT AND BACK WITH ARM, STANDARD SIZE SUPERIOR QUALITY	135
					EXECUTIVE TABLE	SIZE:-1830X1200X750 MM	18
					STEEL ALMIRAH BIG SIZE	SIZE:- 78"X36"X19"	40
					STEEL ALMIRAH SMALL SIZE	SIZE :- 50"X30"X17"	06
					REVOLVING STOOL	SIZE:- 457X305X305 MM	20
					STOOL	WOODEN STOOL, SIZE:- 30X30X45 CM, WITH SUNMICA TOP	40
					SOFA SET	3 SEAT + 2 SIDE CHAIR, WOODEN FRAME WITH MOULDED GRILL ARMS/	04
						LEGS, HD FOAM, CUSHION SEAT AND BACK COVERED WITH VALVET CLOTH	

					CENTER TABLE	SIZE:- 120X60X45 CM, WITH SUNMICA TOP WOODEN FRAME	04
					FILE CABINET	4 DRAWERS, MADE OF 22 G SHEET, SIZE 55"X28"X19"	01
					INTERACTIVE BOARD	CERAMIC STEEL WRITING BOARD WITH BUILT IN INTERACTIVE FEATURES	02
					NOTICE BOARD	WITH JALLI AND DOOR SHUTTER, SIZE 120X 75X 10 CM	06
No	No	01/08/2012	3360000.00	NCB	AIR CONDITIONER (1.5 TON)	5 STAR 1.5 TON TYPE: SPLIT WALL MOUNTED	51
					AIR CONDITIONER (2.0 TON)	5 STAR 1.5 TON TYPE: SPLIT WALL MOUNTED	22
No	No	01/08/2012	5090000.00	NCB	digital language lab PC Based software	it should have instructor module ,student module ,lesson studio, as well as integrated english language .Learning material & excercises.The software should run in the following OS and Hardware.OS -window 7,XP,2003,vista.Hardware- Intel pentium 4 configuration	01
						(1+33	

					network simulator	Net Sim Simulator for Win XP,windows7	01
					C-compiler	Intel C-Compiler,32 & 64 Bit Processor with full screen version with 30 user.	02
					server 2008 OS	WINDOWS server 2008 enterprize edition 32 Bit & 64 Bit processor with 100 CAL(client access license)	01
					Simulation software for DSP lab	teaching tools for class teaching programs.student learning tools for their individual self study corporate & industrial traing program LTI,DTFT,DFT,FFT	01
					antivirus	antivirus (latest version),window 7,xp,vista 32 &64 Bit supported,(1 User 1 Year Licenced)	200
					C/C++	turbo /Borland c/c++ ,window7 /xp,32 & 64 Bit supported with full screen version.(for 30 user)	05
					Mat Lab	DSP tool,latest version window7 operating Based (for 10user with tool)	02
					Simulation software for VLSI	VLSI Lab S/w C# XLINK Mat Lab ETC window7 OS,(for 40 user)	01
					SCADA	SCADA system s/w used for power system automation.1-analog Real	01
						time-8 analog bargraph pen.2- digital real time-32 digital status pen screen.(for single user)	

					power system simulation	software should provide provision to calculate transmission line parameters & to show operation of nator(for single user),window7/vista/xp 32 &64 bit supported	01
					8085 simulator S/W	8085 simulation s/w compatible with window 7,vista xp,32 & 64 Bit supported(for 30 User)	01
					8086 simulator S/W	8086 simulation s/w compatible with window 7,vista ,xp,32 & 64 Bit supported(for 30 User)	01
					8051 simulator S/w	8051 simulation s/w compatible with window 7,vista xp,32 & 64 Bit supported(for 30 User)	01
					air conditioning system simulator software	S/W should provide testing and troubleshooting of the devices listed below :-1. compressor -start relay. 2.condenser coil - Indoor fan relay. 3.evaporator coil- Crankcase heater. 4.TX valve (TXV/tev)- compressor run capacitor. 5.	01
						Capillary tube- compressor start capacitor. 6. Filter drier - Fan motor capacitor. 7. Air Filter - room thermostat. 8. Outdoor Fan motor - Low pressure Switch. 9. indoor Fan Motor- High Pressure Switch. 10. transformer - Fan Switch. 11 conactor - Circuit Breaker. and should simulate the performance of AC with different Refrigerent(Min 3). It should run in:- 1. Pentium ,Core, or equivalent processor(32 or 64 Bit).2Minimum RAM required by operating system. 3.Window 95,98,2000,2003,2008,NT, Me,XP,Vista or Windows 7 (32 or 64 Bit) . 4.VGA/SVGA display. 5.Hard drive, 18MB available disk Space. 6. pointing device ,such as Window-compatible mouse.'Network version,30 User (seat) license'	

					Autocad revit architecture suit 2010 or latest version	Acedemic version 40 user license pac as per manufacturer of the software.	01
					Auto desk maya 2011	40 user license pac as per manufacturer of the software	01

					staad pro.	latest version 40 user license pac as per manufacturer of the software	01
No	No	01/08/2012	11773000.00	NCB	Desktop Computer	Desktop Computer with preloaded Operating System AMD phenon dual core, operating system microsoft windows 7	132
					Desktop Computer INTEL Core	Intel cpre i7 with trusted platform module 1.2, Operating system: SUSE Linex	87
					Laptop	Computer note book intel core i-5 with red HAT linux	10
					Computer Note Book	computer note book intel core i-5 with window 7 professional	07
					Thinkpad L420Computer Note Book	computer note book intel core i-7 with window 7 professional	06
					LCD Projector	Resolution: 1024 X 768 X XGA,ANSI Lumen: 5000	08
					Multimedia Projector	Resolution: 1024 X 768 X XGA,ANSI Lumen:	03
					Multimedia LCD Projector	Resolution: 1024 X 768 X XGA,ANSI Lumen: 2000	01
					UPS 5 KVA ON LINE	with isolation transformer suitable for single phase AC input & single phase AC output, Floor MOunted Type	16
						indicative back-up time: 60 Minutes	

Item Estimated Cost Per Unit
40000.00
25000.00
10000.00
4000.00
6000.00
10000.00
40000.00
12000.00
6000.00
25000.00
25000.00
8000.00
15000.00
5000.00
20000.00

40000.00
30000.00
58000.00
100000.00
325000.00
70000.00
75000.00
200000.00
100000.00

100000.00
6000.00
800.00
2500.00

69000.00
10000.00
2200.00
176000.00
6300.00

36500.00

28500.00

100000.00

100000.00
75000.00
75000.00
100000.00
75000.00
200000.00
50000.00
5000.00

3000.00
5000.00
3000.00
10000.00
7000.00
400000.00

100000.00
100000.00
75000.00
200000.00
200000.00
150000.00
125000.00

150000.00
150000.00
100000.00
500000.00

60000.00
62500.00
400.00
400.00
3500.00
100000.00

100000.00

150000.00

70000.00

70000.00
50000.00
50000.00
200000.00
100000.00
20000.00
2000.00
20000.00
5000.00
150000.00

2500.00
25000.00
70000.00
300000.00
15000.00
20000.00
2500.00
100000.00
30000.00

25000.00
1000.00
40000.00
25000.00

75000.00
200000.00
200000.00
100000.00
20000.00
100000.00
10000.00
5000.00
8000.00

10000.00
8000.00
40000.00

40000.00
125000.00
40000.00
125000.00
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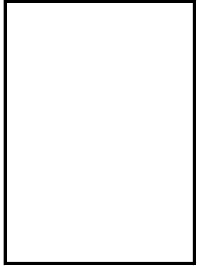
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Package Code	Package Name	Justification	Item Category	Item Sub Category	Activity Name	Is Proprietary	Through DGS & D	Estimated Financial Sanction Date	Total Estimated Cost	Proc. Method	Item Name	Item Description	Item Quantity	Item Estimated Cost Per Unit
TEQIP-II/CG/CG1G03/1	CHEMISTRY LAB	Equipment / Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	30/08/2012	874000.00	Shopping	Autoclave	Fully Automated with Automatic Pressure switch, Digital Temperature indicator Controller, Timer with alarm & Recorder indicator Controller.	01	40000.00
											Digital Conductivity Meter	micro second to 200mS with 0.1 cell Constant	01	25000.00
											Digital Nephleometer	Range 0.0 to 5000 mill NTU Accuracy - 0 to 1000 mNTU	01	10000.00
											Digital Room Thermometer	0 - 100 digree Celcius	01	4000.00
											Digital TDS Meter	2ppm to 2ppt with 0.1 cell Constant	01	6000.00
											Digital DO Meter	Do range 0-20ppm Temperature 5 to 45 digree Celcius Accuracy - +/- 2%	01	10000.00
											Triple Distillation Unit	Capacity - 10 liters All glass	01	40000.00
											Magnetic Stirrer with Temperature Control	Automatic 100 digree Celcius	01	12000.00
											pH Meter	Resolution - 0.01pH	01	6000.00
											Misc. Accessories (Digital Balance. Ice Box, Jar Test,Apparatus, Water Bath, Hot Plate)	Maximum weighing capacity- 200gm Readability - 0.001 gm	01	25000.00
											Hot Air Oven	Temperature Range- 250 - 350 digree Celcius Double walled with glass wool insulation	01	25000.00
											Hot Plate	Temperature Controlled energy regulator S.S. top full S.S. body	01	8000.00
											NPL Certified Burettesf & Pipettes	50 ml, 10 ml	01	15000.00
											Centrifuge Apparatus	1500 rpm	01	5000.00
											Suction Pump	1 Hp	01	20000.00
											Muffel Furnace	1400 digree Celcius Digital temperature indicator & Control	01	40000.00
											Soxlet Apparatus With Heating Mantle	Maximum surface temperature of hot plates is 2000 digree Celcius Supply voltage 230 V AC 50 HZ	01	30000.00
											Flame Photometer / Stack Monitoring kit	Potassium 100 - 1 ppm Sodium - 100 - 2 ppm Calcium- 300 - 30 ppm Lithium- 25 - 2 ppm Reproducibility +_ 2% & +_ 1 Digit	01	58000.00
											Digital BOD Incubator	5 to 50 digree Celcius +_ 0.5 digree Celcius Microprocessor based BOD Incubator 83 Lit.	01	100000.00
											Digital Spectophoto meter	Wavelength Range 340 to 960 nm Accuracy +_ 1nm Source - Tungsten halogen lamp 12 C, 50W	01	325000.00
											COD Apparatus	Digital Temperature Indicator & Controller	01	70000.00
TEQIP-II/CG/CG1G03/4	CHMISTRY CIVIL WORKS	Equipment/ Instruments listed is necessaEquipment ry to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Civil Works	Refurbishment works	Infrastructure Improvement for teaching, training and learning facilities	No	No	29/09/2012	475000.00	Shopping	Partitioning of lab and staff rooms	Electrical wiring with new Partitioning CSE,CIVIL, EEE, ETE Lab, ETE, MECH.	01	75000.00
											Tiling and Plateform Construction	Tiling of chem. lab with acid resistant tiles and Chemical analyses and water supply lines	01	200000.00
											Repairing ,Painting & Flooring	Repairing-doors & windows painting & Distemping of labs, Flooring Plastering and concreting for various jobs	01	100000.00
											Wiring and Electrification	Electrical wiring with new switch boards, power boards , Electrification of CSE, Civil, Mech.	01	100000.00
TEQIP-II/CG/CG1G03/5	PHYSICS LAB	Equipment/ Instruments listed is necessaEquipment ry to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	494700.00	Shopping	Verification of Logic Gates	Input:+5V DC Logic Levels:High(Logic 1) or Low (Logic 0) Dimension:- 345Lx 240 Bx 110H mmINPUT : + 5vDC Logic levels: High(Logic 1)or Low (Logic 0) Dimension : 345L x 240B x 110 H mm	02	6000.00

											Prism	LEP390001090PRISMS, OPTICALLY WORKED FOR SPECTROMETERS, EQUILATERAL TWO FACE POLISHED, 25 X 25mm HEIGHT. (A) Borosilicate Crown Glass 1.51 LEP390001091PRISMS, OPTICALLY WORKED FOR SPECTROMETERS, EQUILATERAL TWO FACE POLISHED, 25 X 25mm HEIGHT (B) Dense Flint Glass Prism 1.62 LEP390001092 PRISMS, OPTICALLY WORKED FOR SPECTROMETERS, EQUILATERAL TWO FACE POLISHED, 25 X 25MM HEIGHT. (C) Extra dense Flint Glass Prism 1.65	04	800.00
											Compound Pendulum	1 MITRE ROD WITH 19 HOLES , 1MITRE SCALE,DIGITAL STOP WATCH	02	2500.00
											Hall Effect Setup	Kit with along with all Necessary equipments & accessories to Perform the experiment	01	69000.00
											Plank Constant Complete Setup	Mains:- 230 ± 10% 50Hz Fuse:- 0.5A DC Power supply :0 -5v LED Type Super bright Size: 05mm Colours: blue,Green,Orange, Red DC voltmeter Type: LCD Display: 3.5 digit Range : 200mV-200V DC Ammeter Type LCD Display: 3.5 digit Range : 2 µA- 200 mA	01	10000.00
											Flywheel apparatus	Flywheel, Meter scale, Digital stop watch , Thread or string Vernier callipers , pan , weight box 5(each 500gm)	01	2200.00
											Michelson Interferometere	Pasco os-8501 Interferometer apparatus. He - Ne laser , laboratory stand with angal bar clamp Nalgene vaccum pump with air cell 18 mm Focal Convex lens , 2 laboratory jacks , 30 cm ruler ,meter Stick wall mounted barometer ,callipers.	01	176000.00
											Experimental Setup for Thompson Method	1) a cathode ray tube (CRT) 2) a power supply to operate the CRT 3) Three bar magnets 4) a diflection magnetometer 5) a stop watch 6) a wooden frame with scales fixed on its arms	01	6300.00
											Setup of Forbidden Energy band gap	DC power Supply +15V, 2.5V + 5v, 0.5A Diode 0A79 p-n junction, Germanium Type Switch 1 Pole, 2 way Toggle type DPM Type: LCD Display: 3.5 digit Oven Hight: 77mm Width:74mm coil: Nichrome Wire Thermometer: Graduated scale up to 100 deg.cel. Fuse:- 0.5A Mains:- 230+ 10% 50 HZ Dimensions(mm): W250x D130	05	36500.00
											Fiber optics complete kit	The kit should be equipment with transmitter, receiver, drivers, PLL detector, Filters, Function Generator and other with all Necessary equipments & accessories to Perform the experiment	01	28500.00
TEQIP-II/CG/CG1G03/8	PHYSICS LAB CIVIL WORK	Equipment/ Instruments listed is necessaEquipment ry to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Civil Works	Refurbishment works	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	275000.00	Shopping	Repairing ,Painting & Flooring	Repairing-doors & windows painting & Distempering of labs, Flooring Plastering and concreting for various jobs	01	100000.00
											Wiring and Electrification	Electrical wiring with new switch boards, power boards , Electrification of CSE, Civil, Mech.	01	100000.00
											Partitioning of lab and staff rooms	Electrical wiring with new Partitioning CSE,CIVIL, EEE, ETE Lab, ETE, MECH.	01	75000.00
TEQIP-II/CG/CG1G03/11	Maths Civil Work	Equipment/ Instruments listed is necessaEquipment ry to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Civil Works	Refurbishment works	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	75000.00	Shopping	Partitioning of lab and staff rooms	Electrical wiring with new Partitioning CSE,CIVIL, EEE, ETE Lab, ETE, MECH.	01	75000.00
TEQIP-II/CG/CG1G03/16	TPO CIVIL WORK	Equipment/ Instruments listed is necessaEquipment ry to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense. .	Civil Works	Refurbishment works	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	375000.00	Shopping	Wiring and Electrification	Electrical wiring with new switch boards, power boards , Electrification of CSE, Civil, Mech.	01	100000.00
											Partitioning of lab and staff rooms	Electrical wiring with new Partitioning CSE,CIVIL, EEE, ETE Lab, ETE, MECH.	01	75000.00

											Fall ceiling works	ETE/ Different Labs	01	200000.00
TEQIP-II/CG/CG1G03/17	STORE GYM	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	29/09/2012	83000.00	Shopping	Physical Fitness	Equipments for Physical Fitness - Trade mill etc.	01	50000.00
											Suction Machine	Manual Vacuum Suction Machine	01	5000.00
											BP Apparatus	Electronic BP measuring Apparatus	01	3000.00
											Stethoscope		01	5000.00
											Glucometer		01	3000.00
											Invertor		01	10000.00
											Nebulizer Set		01	7000.00
TEQIP-II/CG/CG1G03/19	CSE COMPUTER LAB	Equipment/ Instruments listed is necessary to perform the experiments in Laboratory.Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	400000.00	Shopping	Server	server should have the following hardware:- Item 1. Processor: Intel Xeon Quad Core,Configuration: Rack 6U or 7U "Add on Items for Server" Item 1. IntelXeon E5506 2.13GHz with 4MB L3 cache Mem,4800MHz QPI Bus , Item: 2.: 2GB DDR3 800MHz Reg.with ECC for 2P DC/4P DC2P QC/4P QC AMD Opteron Item 3 : Intel Xeon MP E7520,1.86 GHz D/Cpro with 18MB L3 Cache Item4: 2GB DDR3 800MHz Reg.with FBDIMM with ECC for 2P/4P Quad Core Xeon Item5: 2GB DDR2 400 Registered With ECC for 4P Quad Core Xeon Item6: 300 GB 10000 RPM HDD SAS	01	400000.00
											Item7: Combo for 4Processorxeon 16x10x24 CD R/W and 8xDVD ROM,In lieu of: 8x DVD ROM			
TEQIP-II/CG/CG1G03/21	CSE CIVIL WORK	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense..	Civil Works	Refurbishment works	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	475000.00	Shopping	Repairing ,Painting & Flooring	Repairing-doors & windows painting & Distemping of labs, Flooring Plastering and concreting for various jobs	01	100000.00
											Wiring and Electrification	Electrical wiring with new switch boards, power boards , Electrification of CSE, CIVIL, EEE, ETE Lab, ETE, MECH.	01	100000.00
											Partitioning of lab and staff rooms	Partioning CSE,CIVIL, EEE, ETE Lab, ETE, MECH.	01	75000.00
											Fall ceiling works	ETE/ Different Labs	01	200000.00
TEQIP-II/CG/CG1G03/23	CIVIL LAB1	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	875000.00	Shopping	Plate Load Test Appratus	The test is performed for the determination of bearing capacity of soil s for allowable settlement under static loads at shallow foundation as per IS : 1888.	01	200000.00
											SPT Apparatus	As per IS 2131 consists of Split spoon sampler, Extension riold, driver with penetration assembly, tripod stand, spanners, auger, threaded cone, casing pipe, guide pipe assembly with heavy rope	01	150000.00
											Feild Type Bearing Apparatus		01	125000.00
											Tri axial Test Apparatus	Soil Specimen of 38mm dia x 76 mm long conforming to IS2720 part 22, consisting of load frame 5000 kg, two speed, stationery bush type triaxial cell, lateral pressure assembly, high sensitivity proving ring, dial guage, electrically cum manually operated.	01	150000.00
											Direct Shear Test Apparatus	Conforming to specifications and tolerance in accordance to IS 2720 part XIII for specimen size 60 mm x 60 mm x 25 mm, electrically cum manually operated. Consisiting of loading unit, Shear Box assembly, Shear box housing, specimen cutter and proving ring	01	150000.00
											Static Cone Penetrometer	Hand Operated, Capacity : 3 T, as per IS 4968(Part 3) with additional Penetration Cone Steel, 60° angle & Mantel Tube, 36mm uniform OD with sounding rod 1m length	01	100000.00

TEQIP-II/CG/CG1G03/24	CIVIL LAB 2	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	941500.00	Shopping	Total Station	Windows Based Operating System, On Screen Survey Software to view and edit measured data, perform survey calculations. Accuracy : 1 Sec, Range 4000m, Colourful Touchscreen Display.	01	500000.00
												absolute encoding system, alphanumeric keyboard.		
											Optical Theodolite	2 second accuracy, erect image, magnification 30x, objective aperture 45 mm, resolving power 3 sec, field of view 1 deg 30 sec, shortest focussing distance 1.4 m, multiplication constant 100, additive constant zero, length 157 mm with standard accessories	05	60000.00
											Auto Level	Magnification 32x, 40 mm objective aperture, setting accuracy +/- 0.3 sec, image erect, field of view 1 deg 20 sec, shortest focussing distance 0.5m, working compensator +/- 15 min, multiplication constant 100, additive constant zero including all access	02	62500.00
											Steel Tape	15m, 30m	05	400.00
											Matellic Tape	15m, 30m	10	400.00
											Telescopic Level Staff	Made of aluminium, telescopic type, accurately printed in graduations having 5 mm in front and 1 mm backside, packed in waterproof canvas cover	03	3500.00
TEQIP-II/CG/CG1G03/25	CIVIL LAB3	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	890000.00	Shopping	Bernoulli's Apparatus	a) Supply & receiving chambers with scale & glass tube fittings for the measurement of total potential head, &	01	100000.00
												interlinking duct made of thick transparent perspex sheet smooth variable cross section, quality glass piezometer tubes to measure the pressure b) Strong iron stand for supporting the equipment. c) M.S. Collecting Tank of Size 0.3 m x 0.3 m x 0.6 m gauge glass scale fittings & a drain valve of 1" size & bend.		
											Variable Speed Centrifugal Pump	a. Centrifugal pump of size 1" x 1" to discharge 10 LPM at 10 m total head on rated working speed. 1H.P. capacity Pump Test rig set is suitable for pump test at different speeds against different heads. b. Variable speed 1 H.P. capacity D.C. motor is coupled directly to pump with help of coupling. c. M.S. reservoir of size 0.9 m length x 0.55 m width x 0.45 m height with gauge glass & scale fitting, drain valve of ½" size & a bend.	01	100000.00
											Multi Stage Pump	a. A multi stage pump of size 2" x 2" to discharge 350 LPM at 45 m.head to normal speed 1440 RPM, is coupled with 7.5 HP electric motor, 3 Phase AC. 400/440 V Characteristics being studied at different speeds against different heads. b. Variable speed arrangement by 3 step pulley.	01	150000.00
											Pipe Friction Apparatus		01	70000.00
											Pipe losses apparatus		01	70000.00
											Force of Jet Apparatus		01	50000.00
											Vertex Flow Apparatus		01	50000.00
											Rate Speed Pump		01	200000.00
											Reciprocating Pump		01	100000.00
TEQIP-II/CG/CG1G03/26	CIVIL LAB 4	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	878000.00	Shopping	Digital Conductivity Meter	The EMCEE Digital Conductivity Meter Model is a Hand Held, battery instrument for determining the conductivity of fuel Samples, Capable of reading between 500 megohms to infinity (0 CU)	01	20000.00
											Heating Mantle	1 lit. of 220 to 240 V Singal phase A/C, made of ceramic fibre, built-in simmerstat having max. temp. 450 deg. With main chord 3 core, 2m length	01	2000.00
											Jar Test Apparatus	Jar Test Apparatus with six stirrers featuring digital timer and R.P.M counter.	01	20000.00

											Water Bath	Rectangular, double Walled Inside Stain less steel, Thermostatically Controlled, Temp- Range Amb.+5 deg c, size 425x325x100mm (12 holes of 75 mm dia)	01	5000.00
											Digital Controlled BOD Incubator	Double walled Constuction, inner chamber made of SS, and exterior made of GI sheet, powder coated, temp controlled by	01	150000.00
												microprocessor based digital temperature controller, temp range 5-60 deg, accuracy +/- 0.5 deg centigrade, Capacity : 112 Ltr (4 C.Ft)		
											Hot Plate	Rectangular, with Energy Regular, 250x300x150mm, 1.2 kw	01	2500.00
											Refrigerator	1.90 lit	01	25000.00
											Digital Balance	measured weight upto 100Kg, pan size 550x550mm	01	70000.00
											Digital Spectrophotometer	UV Double Beam Spectrophotometer, Range 190nm - 1100 nm, Bandwidth 2 nm, Accuracy +/- 0.5 nm, System Double Beam Optics, Storage 1000 samples inbuilt memory	01	300000.00
											Digital Ph meter	Table Top model, PH Range 0 to 14, resolution 0.01 PH, Accuracy 0.01 PH	01	15000.00
											Digital Turbidity meter	3 1/2 digit LED Display, Range upto 1000 NTU	01	20000.00
											Ice Box		01	2500.00
											Muffle Furnace	Size : 4" x 4" x 9", Temperature range 1100 deg C, Digital Temperature Controlled, Durable S.S Body.	01	100000.00
											Digital Dissolved Oxygen Meter	a. Range:- 0-2 mg/l b. Display resolution:-0.1mg/l c. Accuracy(Machine only):- ±0.4mg/l d.Temperature compensation:0 to 40°C e.Operating Temperature: 0 to 50°C	01	30000.00
												f. Operating humidity:max. 80% relative humidity HQ30d-single -input Multi- parameter Meter		
											Digital Distilled Water Apparatus	Made of stainless steel with all features like low water cut off device.Water produce upto 5lt /hr, power consumption upto 4.5 KW (single phase),input power 220 V, with Gross Weight 8 Kg.	02	25000.00
											Digital Room Thermometer	a. Temp. :- 0- 50°C (32- 120 F) b. Humidity :- 20%- 99% c. Display :- Max/min Temp. and Humidity record	01	1000.00
											COD Digestion Apparatus	a.Provision for 15 samples. b.Fitted with a digital temperature controller having a timer for 2 hours and also a buzzer. c.Consists of a reaction vessel of 38-40mm. d.Supplied with 15 nos. glass reaction vessels. e.Fitted with 15 nos. air condensers f.Supplied complete with a stand which can accommodate 15 vessels. g.Can be operated on 230 volts, 50 Hz, and Single phase	01	40000.00
											Hot Air Oven	Size : 45 x 45 x 45 cm, made of complete stainless steel, digital display	01	25000.00
TEQIP-II/CG/CG1G03/28	CIVIL CIVIL WORK	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Civil Works	Refurbishment works	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	695000.00	Shopping	Partitioning of lab and staff rooms	Electrical wiring with new Partitioning CSE,CIVIL, EEE, ETE Lab, ETE, MECH.	01	75000.00
											Fall ceiling works	ETE/ Different Labs	01	200000.00
											Tiling and Plateform Construction	Tiling of chem. lab with acid resistant tiles and Chemical analyses and water supply lines	01	200000.00
											Repairing ,Painting & Flooring	Repairing-doors & windows painting & Distempering of labs, Flooring Plastering and concreting for various jobs	01	100000.00
											Foundation of Machines	foundation of lab equipment /Machines	01	20000.00
											Wiring and Electrification	Electrical wiring with new switch boards, power boards , Electrification of CSE, Civil, Mech.	01	100000.00

TEQIP-II/CG/CG1G03/29	EEE Adv. Elex Lab	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	124000.00	Shopping	Analog Digital Bread Board	The system should consist of : Master Unit : Should be a Universal Unit, designed to conduct experiments with both Analog as well as Digital Circuits. The Unit should have : •DC Power Supply:5V, 1A. & ± 12V, 500mA. (Fixed) & 0 to 30V DC, 100mA .	06	10000.00
											Add on Panels	Advance Operational Amplifier Experiment panel Lowpass filter, High pass filter, Bandpass filter, Band stop (Notch)filter, Wien Bridge oscillator, Phase Shift oscillator. Passive / Active / M Derived Filter Panel Passive (RC) filters Active filters LC (M derived / constant K type).	06	5000.00
											Square Rooting Circuit Trainer	Provision to study and test the working of Square Rooting Circuit using Multiplier. Logical diagram to be provided in the front view User manual with practical & circuit diagram and connecting patch chord.	01	8000.00
											Quadrant Divider Trainer	• Provision to study and test the working of IC RC 4200. • Logical diagram to be provided in the front view User manual with practical & circuit diagram and connecting patch chord.	01	10000.00
											LCR Combo Decade Box	Inductor:- Pot core wound 00mH to 100H 200mA Rotary Switch 6 1mH Capacitor:- Polyester 10pF to 111mF 250Volt Non-Polar Rotary Switch 6 12pf Resistor:- Non-Inductive 0.01U to111MU 250Volt / 2watt Rotary Switch 6 12mW	02	8000.00
TEQIP-II/CG/CG1G03/30	EEE Utilization of Energy Lab	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	370000.00	Shopping	AC Motor Speed Controller Trainer	Fractional HP Universal AC/DC 230V/ 1/12th HP motor windings are brought on SBS5 socket for easy connection. Chassis mounted table top with brake pulley and spring	01	40000.00
												balance. Lightweight sturdy aluminum power coated flat demo panel system containing modular panels.		
											DC Motor Speed Controller Trainer	DC Shunt motor 160W/180V with Armature and field windings are brought on SBS5 socket for easy connection. Chassis mounted table top with brake pulley and spring balance. Lightweight sturdy aluminum power coated flat demo panel system containing modular panels.	01	40000.00
											Induction Motor Speed Control Trainer	Powder coated sturdy Aluminum flat panel (table top) system, carrying various high voltage components housed in plastic enclosures (panel) to minimize shock possibility. ?1 phase Motor, nator & Synchronous Motor Panel 1 phase MCB of 4A/1.6A – 2nos, bulb load.	01	125000.00
											Armature Control Separately Excited DC Motor	The DC motor should come with 2HP DC Shunt motor Separately excited, 230V DC Armature 230V DC It should demonstrate how the change in applied voltage affects the motor speed. User manual with practical & circuit diagram and connecting patch chord.	01	40000.00
											3 phase induction motor Fault Simulator	Powder coated sturdy Aluminum flat panel (table top) system, carrying various high voltage components housed in plastic enclosures (panel) to minimize shock possibility. ?Input 3 Phase DOL Starter Panel. 3 phase squirrel cage induction motor, ½ HP, 4 pole, 1500RPM, Motor with built in thermal cutout.	01	125000.00
TEQIP-II/CG/CG1G03/31	EEE POWER SYS. SIMU. LAB	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	75000.00	Shopping	AC Transmission Line Analyzer	This set-up should consist of four individual modules. i) Input AC Source ii) Transmission Line model 1.Simulated value of R-L for short transmission line and R-L-C for MEDIUM LINE and LONG transmission line	01	15000.00

											iii) Transmission line parameter measurement model 1.PIC Micro controller used to measure all parameters and LCD display to indicate different voltages & currents & also to indicate A,B, C,D value of transmission line in rectangular form. Iv) Load setup 1.Three sets of R-L load for all three types of transmission line. 2. Facility to load transmission line up to 75% of load regulation & 85° of lag P.F 3. Rotary switch provided for load R, L value ion.			
											Cable Fault Locator	1)Telephone cable simulator module * It should consists of 10 mtr. cable module with different intermediate points * Necessary fault creating points. * Ground and short circuit fault calculation using VARY LOOP TEST. 2) Wheat stone bridge circuit: * Two range ion arms provided to the nearest range of unknown value. * Range of Measurement: 50 Ohm-1M Ohm.	01	15000.00
											Determination of Characteristics of nator	Measurement of Sequence Impedance (Reactance) of an nator The Trainer should measure the sequence Impedance Positive, Negative & Zero of an nator set-up. This trainer should consist of the necessary equipments including nator, motor, transformer etc. User manual with practical & circuit diagram and connecting patch chord.	01	15000.00
											3 Phase Fault Analysis Trainer	Three phase Transmission line fault Simulation Study Module * Simulate 3 phase Balanced system Fault and unsymmetrical faults. * Fault study with single line and double line in 3 phase system. * Analysis of all series and shunt Faults. # L-G – Fault # L-L – Fault # L-L-G – Fault # Single Conductor open fault # Double conductor open fault # Fault through impedance * The transmission lines simulated by high frequency Inductance & resistance for short medium and long line. User manual with practical & circuit diagram and connecting patch chord.	01	15000.00
											DC NV Analyzer	* DC Generator source - Two wires or three wire - ±12V. * Provision for variable DC voltage. * Simulation of Long/Medium/Short Distribution line * Second DC generator source at distance end or Ring main Simulation * Provision to connect loads at variable line locations. * Measurement of voltage and current at any point on the line segments. User manual with practical & circuit diagram and connecting patch chord.	01	15000.00
TEQIP-II/CG/CG1G03/32	EEE IND. AND POWER ELEX	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	91000.00	Shopping	Diac and Triac Characteristic Trainer kit	Built in Regulated Power supply 0-50 V DC/100 mA continuously variable. 0-3 V DC/100 mA continuously variable. On board 55 Volt AC /100 mA and 9V AC/100 mA voltages are provided for experiments. Following parts provided on Single PCB with connecting terminals. Diac DB3, Triac BT136, 1K5 and 22-Ohm Resistor, Potentiometer, 0.47uf/250V	01	7000.00
												Polyester Capacitor. User manual with practical & circuit diagram and connecting patch chord.		
											Force Commutator of SCR Trainer Kit	Built in Regulated Power supply : +12V DC On board 1 HZ pulse generator for triggering SCR.. User manual with practical & circuit diagram and connecting patch chord.	01	10000.00
											Firing Circuit using RC Circuit	Following parts provided on Single PCB with connecting terminals. SCR BT 151, IN4002, OA79 Diode, Potentiometer,10uf/40V Electrolytic capacitor. On board 15 Volt AC /100 mA User manual with practical & circuit diagram and connecting patch chord.	01	7000.00

											Single Phase Full Wave Bridge Rectifier	Power supply requirement : 440V AC, 3 Phase. Following parts provided on Single PCB with connecting terminals. SCR, UJT-2N2646, IN4007 User manual with practical & circuit diagram and connecting patch chord.	01	7000.00
											3 Phsae Full Wave Bridge Rectifier	Following parts provided on Single PCB with connecting terminals. SCR, Power Diodes Load Resistors of different values with 100mh Coil, 1000/35 EC, 0.1 PPC Three Mains Transformer	01	7000.00
												with step down AC Voltages : 0-30V/250 mA. User manual with practical & circuit diagram and connecting patch chord.		
											DV/ DT Limitation of SCR kit	Following parts provided on Single PCB with connecting terminals. SCR BT 151, IN4002 Diode, OA79 Diode, Resistors, Potentiometer, 10uf/40V Electrolytic capacitor, 0.47uf/250V Polyester Capacitor On board 15 Volt AC /100 mA User manual with practical & circuit diagram and connecting patch chord.	01	7000.00
											Characteristics of UJT Trainer kit	Power supply requirement : 230V AC, 50 Hz. Built in Regulated Power supply On board DC Voltmeters and DC Ammeter User manual with practical & circuit diagram and connecting patch chord.	01	7000.00
											AC Phase Control Using ACR	Built in Regulated Power supply On board DC Voltmeters and DC Ammeter User manual with practical & circuit diagram and connecting patch chord.	01	7000.00
											Series Inverter kit Using SCR	Built in firing circuit DC supply for inverter (Half bridge) to converter in to AC. Following parts provided on Single PCB	01	10000.00
												with connecting terminals. Triac BT 136, Capacitors, Choke coils, Resistors and Loads. User manual with practical & circuit diagram and connecting patch chord.		
											Chopper Kit using SCR	Built in Regulated DC Power supply for chopper to step down to other DC supply. Following parts provided on Single PCB with connecting terminals. Triac BT 136, IN4002 Diode, Resistor, Choke Coils. User manual with practical & circuit diagram and connecting patch chord.	01	10000.00
											Speed Controller of AC Motor	Following parts provided on Single PCB with connecting terminals. Diac - DB3, Triac - BT136, Variable Resistor (Potentiometer), Smoothing Capacitors. User manual with practical & circuit diagram and connecting patch chord.	01	12000.00
TEQIP-II/CG/CG1G03/33	EEE AUT. CONT. LAB	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	340000.00	Shopping	Open loop System Trainer Kit	1. Electronic simulation used for the process under study for easy and better understanding. 2. Demonstrates the principle and working of a basic open loop control	01	20000.00
												system. 3. Charging of a capacitor with constant current used as process and timer as control element. 4. Built-in variable input command, variable disturbing/error signal and timer with relay. 5. Built-in IC based DC regulated power supply with short circuit protection. User manual with practical & circuit diagram and connecting patch chord.		

											Closed loop System Trainer kit	1. Electronic simulation used for the process under study for easy and better understanding. 2. Demonstrates the principle and working of a close loop control system. 3. Charging of a capacitor with constant current used as process and timer as control element. 4. Built-in variable input command, variable disturbing/error signal and timer with relay. 5. Built-in IC based DC regulated power supply with short circuit protection. User manual with practical & circuit diagram and connecting patch chord.	01	10000.00
											Basic Feedback System	1. Electronic simulation used for the process under study for easy and better understanding. 2. Demonstrates the principle and working of a basic feedback control	01	35000.00
												system. 3. Charging of a capacitor with constant current used as process and timer as control element. 4. Built-in variable input command, variable disturbing/error signal and timer with relay. 5. Built-in IC based DC regulated power supply with short circuit protection. User manual with practical & circuit diagram and connecting patch chord.		
											Type Zero Control System Trainer	1. Electronic simulation used for the process under study for easy and better understanding. 2. Demonstrates the principle and working of a type "0" control system. 3. Study of its Time Response Analysis for different signals. 4. Observation of output signal on Digital multi meter. 5. Calculation of error signal. 6. Plotting of graph of time v/s input and time v/s output for step error signal and Ramp error signal. 7. Built-in IC based DC regulated power supply with short circuit protection. User manual with practical & circuit diagram and connecting patch chord.	01	35000.00
											Type -1 Control System Trainer	1. Electronic simulation used for the process under study for easy and better	01	25000.00
												understanding. 2. Demonstrates the principle and working of a type "1" control system. 3. Study of its Time Response Analysis for different signals. 4. Observation of output signal on Digital multi meter. 5. Calculation of error signal. 6. Plotting of graph of time v/s input and time v/s output for step error signal and Ramp error signal. 7. Built-in IC based DC regulated power supply with short circuit protection. User manual with practical & circuit diagram and connecting patch chord.		
											Type -2 Control System Trainer	1. Electronic simulation used for the process under study for easy and better understanding. 2. Demonstrates the principle and working of a type "2" control system. 3. Study of its Time Response Analysis for different signals. 4. Observation of output signal on Digital multi meter. 5. Calculation of error signal. 6. Plotting of graph of time v/s input and time v/s output for step error signal and Ramp error signal. 7. Built-in IC based DC regulated power supply	01	25000.00
												with short circuit protection. User manual with practical & circuit diagram and connecting patch chord.		
											Test Signal Generator	1. Working voltage 230V, 50Hz A.C. 2. It should provide test signals of different waveforms and frequencies for feeding in as error signals. 5. It should give very low frequencies (variable) step and Ramp waveform signals, which are essential for finding the response of various control circuits. User manual with practical & circuit diagram and connecting patch chord.	01	35000.00

											Proportional Control System Trainer	1. Demonstration of principle and working of a Proportional Control System (P). 2. Study of effects of proportional action on different actuated error signals generated externally for closed loop behavior of system. 3. Control of Proportional rate and study of its effects on the controlled signal. 4. Built-in IC based DC regulated power supply with short circuit protection. User manual with practical & circuit diagram and connecting patch chord.	01	35000.00
											Lead Leg System Trainer	1. Demonstration of principle and working of lead lag networks. 2. Verification of frequency response characteristics of lead/lag networks. 3. Verification of theoretical and experimental values, for attenuation, time constant (T) and phase angle. 4. Built-in passive compensating networks such as lead and lag. 5. Built-in active compensating networks such as lead and lag using op-Amps with its power supply.. User manual with practical & circuit diagram and connecting patch chord.	01	35000.00
											Propotional Integral Derivative Control System	1. Complete system consists of a process unit with process and control unit with sensor. 2. The process unit consists of an aluminum rod as the process which is heated by 3 high wattage bulbs (100 watts each). A temperature of above 80 deg. C can be attained. 3. The control unit consists of an RTD PT 100 sensor probe with connecting facilities, its sensor input circuit P.I.D. control circuits, and power output circuit. 4. Built-in analog meters to measure deviation (+/- 20 deg.C) between set and process value and %	01	30000.00
												output power (0-100%). 5. Study of effects of integral, derivative and proportional action : P, PI, PD & PID. User manual with practical & circuit diagram and connecting patch chord.		
											Proportional Derivatv Control PD System	1. Demonstration of principle and working of a Proportional Derivative (PD) control System. 2. Study of effects of integral and proportional action on different actuated error signals generated externally for closed loop behavior of system. 3. Control of derivative time, Proportional rate and study of its effects on the controlled signal. 4. Facility for Proportional (P) and Proportional Derivative (PD) control system experiments. . User manual with practical & circuit diagram and connecting patch chord.	01	30000.00
											BODE Plot Trainer	1. Demonstration of the principle and working of a Various control system for Bode plot characteristics. 2. Study of frequency response, gain calculation transfer function logarithmic plot consisting of two graphs viz., logarithmic of magnitude and phase angle (combined plots are called Bode plot) for various control system	01	25000.00
												(Type 0, 1, 2). 3. Test points at various stages in the circuit to observe and record the waveforms and voltages. User manual with practical & circuit diagram and connecting patch chord.		
TEQIP-II/CG/CG1G03/34	EEE ELECT. CKT LAB	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	75000.00	Shopping	Kit for Verification of Ohms Law	1. Power supply requirement : 230V AC, 50 Hz. 2. Built in IC based power supply - +15V/250mA and +5V/250mA. 3. Different resistors on the board. 4. All parts are soldered on single pin TAGS on single PCB with complete circuit diagram screen printed. User manual with practical & circuit diagram and connecting patch chord.	01	5000.00

											Kit for Verification of Kirchof's law	1. Power supply requirement : 230V AC, 50 Hz. 2. Built in IC based power supply - +15V/250mA and +5V/250mA. 3. Different resistors on the board. 4. All parts are soldered on single pin TAGS on single PCB with complete circuit diagram screen printed. User manual with practical & circuit diagram and connecting patch chord.	01	10000.00
											Kit of RC Circuit and Time Control	1. Power supply requirement: 230V AC, 50 Hz. 2. Built in IC based regulated Power supply: +9V DC/200 mA. 3. Different C-R and R-C Circuits provided on Single PCB with connecting terminals. 4. Built-in 1KHz/10KHz TTL square wave generator. User manual with practical & circuit diagram and connecting patch chord.	01	5000.00
											Kit for Phase Difference in LCR Circuit	1. 0-30V D.C. at 100mA, continuously variable IC regulated power supply. 2. +5V D.C. at 100mA, IC Regulated Power supply. 3. D.C. voltmeter, 65mm rectangular dial with switch able ranges of 0.5,1,5,25 & 50V. 4. D.C. Ammeter, 65mm rectangular dial with switch able ranges of 0.05, 0.5,5, 50 & 100mA. User manual with practical & circuit diagram and connecting patch chord.	01	5000.00
											Kit for Series and Parallel Resonance	1. 0-30V D.C. at 100mA, continuously variable IC regulated power supply. 2. +5V D.C. at 100mA, IC Regulated Power supply. 3. D.C. voltmeter, 65mm rectangular dial with switch able ranges of 0.5,1,5,25 & 50V. 4. D.C. Ammeter, 65mm rectangular dial with switch able ranges of 0.05, 0.5,5, 50 & 100mA. User manual with practical & circuit diagram and connecting patch chord.	01	10000.00
											AC Circuit Fundamentals - 3 phase	Balanced 3 phase resistive load Star and Delta connection	02	20000.00
TEQIP-II/CG/CG1G03/35	EEE HIGH VOL. LAB	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	795000.00	Shopping	HV Transformer	Input voltage: 0-415V AC Output voltage:0-11kV AC kVA rating: 35 kVA Safety interlocks : Zero- interlock and door interlock Timer: 1 sec to 30 minutes Type of Cooling: Oil cooled The necessary powder coated control panel will be provided with the transformer Equipped with all necessary meters, switches, indicators and trip circuit. Memory switch Must be provided in the control panel. Special Feature : 1. Automatic Discharge at the end of experiments 2.Necessary safety and grounding points should be provided.	01	200000.00
											Schering Bridge circuit Trainer	1.Screened standard capacitor: 100pF \pm 5%. 10 kV maximum 2.Dissipation factor (tan d) ; 10-5	01	120000.00
												3.High voltage supply consists of protective circuit & special screening. 4.Input voltage: 230V 5.Output continuously variable: 0-10 kV 6.Maximum current: 100 mA 7.Capacity : 1 kVA 8.Arrangement should be made to shield the measuring system to neutralize the stray capacitances. Special Feature : 1. Automatic Discharge at the end of experiments 2. Necessary safety and grounding points should be provided.		
											Oil Testing Kit	Input Voltage : 0-230VAC Output Voltage : 0-60kV (30-0-30) Rating of Transformer : 500VA Facility for zero & Door interlock Memory switch should be provided Over voltage cut-off should be provided It should be manufactured as per IS: 335 and IS : 6792. It should be automatic type kit. Special Feature : 1. Automatic Discharge at the end of experiments 2. Necessary safety and grounding points should be provided.	01	125000.00

											Sphere Gap Arrangement	Diameter of Spheres : 100mm Material of Spheres : Pure copper Type of Sphere gap : Vertical & mobile. Height of the Sphere gap : 1250mm Distance of Sphere from structure: 200mm The system is motorized and controlled from the control panel. Clock type gap indicator is provided with the sphere gap apparatus. The necessary water resistor should also be Provided with stainless steel ends. 400ohm resistor should also be provided for impulse Test. The moving metal parts should be satin type hard-chrome plated. Special Feature : 1. Automatic Discharge at the end of experiments 2. Necessary safety and grounding points should be provided.	01	75000.00
											Rod Gap Arrangement	The rod-gap apparatus should consist of the mobile base frame, insulating structure with provision to mount the electrodes. Suitable micrometer scale is provided on the moving electrode side to adjust the gap to the accuracy of	01	75000.00
												±0.1mm. Following electrodes are supplied to study breakdown between uniform and non-uniform field. i) A pair of plate electrodes (uniform field) ii) A pair of point shaped electrodes (non-uniform field) iii) A pair of square tipped electrodes (non-uniform field) Special Feature : 1. Automatic Discharge at the end of experiments 2. Necessary safety and grounding points should be provided.		
											Horn Gap Arrangement	Transformer capacity: 15 kV Material of Horns: Aluminium or copper Minimum gap of horns: 3- 5mm Maximum gap of horns: 30- 50mm Perspex square shield should be provided to protect the horns from air disturbances. Special Feature : 1. Automatic Discharge at the end of experiments 2. Necessary safety and grounding points should be provided.	01	75000.00
											Corona Discharge Cage	Corona Voltage: 37kV Diameter of the cage : 10" to 12" Length of the Corona cage : 36" Height of the cage : 30"	01	125000.00
												The equipment should be mobile type and it should be powder coated. Special Feature : 1. Automatic Discharge at the end of experiments 2. Necessary safety and grounding points should be provided.		
TEQIP-II/CG/CG1G03/36	EEE MC AND EMBD SYS LAB	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	84000.00	Shopping	Micro Controller Trainer Kit	8051 Microcontroller CPU. MEMORY CAPACITY OF -2KB SCRATCH PAD RAM, 16 KBBATTERY-BACKUP RAM (with onboard Ni-Cd rechargeable Battery), 36KB EPROM Monitor With Advance Software Like One-Pass Line Assembler & Dis-Assembler .	07	12000.00
TEQIP-II/CG/CG1G03/37	EEE LNR. INT. CKT & APP LAB	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	49000.00	Shopping	Bistable Multivibrator kit	Built-in Power supply : +15V at 200mA IC Regulated & short circuit protected. To trigger the Bistable Multivibrator with Square Wave signal And to compare output frequency with the trigger waveform frequency, Measurement of voltages and observation of waveforms at intermediate points.	01	7000.00
											Mono Stable Multi Vibrator kit	Built-in Power supply : +15V at 200mA IC Regulated & short circuit protected. Complete Circuit is printed on a single PCB with enclosed cover and test points are provided on it All parts are soldered on single pin tag for easy replacement.	01	7000.00
											Astable Multivibrator kit	Built-in Power supply : +15V at 200mA IC Regulated & short circuit protected. Measurement of voltages and observation of waveforms at intermediate points, OPAMP IC 741 as Voltage follower.	01	7000.00
											Kit of Op-amp as Inverting Summing Amplifier	IC 741- is provided. As summing/adder Built-in Power supply : +15V at 200mA IC Regulated & short circuit protected. Complete Circuit is printed on a single	01	7000.00

												PCB with enclosed cover and test points are provided on it. All parts are soldered on single pin tag for easy replacement.		
											Timer Using IC - 555	Built in IC based regulated Power supply - 0-12 V DC/250 mA. Following parts provided on Single PCB with connecting terminals. IC 555 R-C Network - 100K Pots and Capacitors 100u/16V ON/OFF Timer.	01	7000.00
											Kit of Clipping and Clamping Ckt	Power supply : 230V AC, 50 Hz., Built in IC based regulated Power supply: + 5 V DC/200 mA ,1N4148 Diodes . Built-in Square wave generator with switch able frequency ranges of 1kHz and 10kHz.	01	7000.00
											Kit of Voltage Followers	IC 741- is provided. As summing/adder Built-in Power supply : +15V at 200mA IC Regulated & short circuit protected. Complete Circuit is printed on a single PCB with enclosed cover and test points are provided on it. All parts are soldered on single pin tag for easy replacement.	01	7000.00
TEQIP-II/CG/CG1G03/38	EEE ANLOG ELEX CKT LAB	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	28000.00	Shopping	Kit of Class A Power Amplifier	Built-in Power supply : +12V at 30mA IC Regulated & short circuit protected continuously variable. Power Supply: 230V, 50Hz AC. Power transistor -SL100 in Class-A Power amplifier circuit 8 Ohm 0.5 Watt Loud Speakers.	01	7000.00
											Kit of Wein Bridge Oscillator	Built-in Power supply : + 9V DC at 50mA IC Regulated & short circuit protected Power Supply : 230V, 50Hz AC, Transistor BC548A/2N3904. Complete Circuit is printed on a single PCB with enclosed cover and test points are provided on it. All parts are soldered on single pin tag for easy replacement.	01	7000.00
											Kit of Hartley Oscillator	Built-in Power supply : +9V at 50mA IC Regulated & short circuit protected PNP transistor, Gang Condenser. Power Supply : 230V, 50Hz AC.,Measurment of voltage	01	7000.00
												and observation of waveform at intermediate points.		
											Kit of Darlington Pair Amplifier	+24V D.C. at 600mA, Transistors. Power supply : 230V AC, 50 Hz. Built in IC based regulated Power supply: +15V DC/200 mA. Following parts provided on Single PCB with connecting terminals. Transistors BC548B - Transistors BC557B -	01	7000.00
TEQIP-II/CG/CG1G03/39	EEE AC MACHINE LAB	Equipment/ Instruments listed is necessary to perform the Experiments in laboratory. Thus the Students will be able to understand the Subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	1855000.00	NCB	3 Phase 5 KVA, 415 Volt / 220 Volt Delta Y Transformer	Three Phase transformer 5KVA, 415/220V Portable with tapings on both primary and secondary mounted on main Bakelite sheet for easy Connections.	01	60000.00
											Synchronous Motor Coupled with DC Machine	5 HP, 415Volts, 1500 rpm 3 Phase Synchronous motor coupled to DC shunt Generator 230 Volts 2.0KW,1500 rpm coupled with 21V, 22 Amp 0.50KW DC generator (for Excitation) and a static DC Source with change over switch.	01	50000.00
											DC Motor Coupled to AC Generator	DC shunt motor 5 HP 220V 1500 rpm, coupled to 3phase 440Volts 3KVA nator, coupled with 0.75KW DC Generator (for Excitation). Control Panel should be provided with built in DC Source derived from AC Source for both Motor & Generator with HRC Fuses, MCB & Power Socket to the rated	01	100000.00
												capacity of Motor & Generator.		
											1 Phase Auto Transformer	240Volt 10A 50 Hz	02	25000.00
											Auto Transformer (3 Phase)	415V, 50 Hz, 28 Amp	01	50000.00
											Slip ring Induction Motor (3 Phase)	3 phase Slip ring Induction Motor 5 HP, 415V, 3 Phase, 50Hz directly coupled to mechanical Load with belt and pulley spring balance arrangement, with the drum dial type spring balance. Machine should confirm to IS Standard.	01	100000.00

											Single Phase Capacitor Start Induction Motor	1phase Capacitor start and run Induction Motor 2HP 220Volts, 1440 rpm directly coupled to mechanical Load with belt and pulley spring balance arrangement with the drum round dial type spring balances. Machine should confirm to relevant specifications of BIS.	01	100000.00
											AC Distribution Panel	Input voltage – AC, 3 Phase, 415V, 50Hz 125 amps capacity with overload protection earth fault protection, three digital Ammeter 0-150 amps & three Voltmeter 0-300V digital, the bus bar should be connected to 32 amps rating 3 phase ON & OFF switch.	01	70000.00
											SLIP RING INDUCTION MOTOR	Three Phase Mains Supply : 415 V ±10%, 50 Hz Induction Motor : 3 HP, 1440 RPM (No Load) Ammeter : 0-10 Amp Voltmeter : 0-500 V Wattmeter (WA) : 2500 W	01	143000.00
												Wattmeter (WB) : 2500 W Three Phases MCB : 10 A Exclusive and rugged designed panel Designed by considering all the safety precautions User manual with practical & circuit diagram and connecting patch chord.		
											THREE PHASE TRANSFORMER	Input voltage: 0-415V AC Output voltage:0-1.1kV AC kVA rating: 5 kVA Safety interlocks : Zero- interlock and door interlock Timer: 1 sec to 30 minutes Type of Cooling: Oil cooled The necessary powder coated control panel will be provided with the transformer Equipped with all necessary meters, switches, indicators and trip circuit. Memory switch Must be provided in the control panel. Special Feature : 1. Automatic Discharge at the end of experiments 1.Necessary safety and grounding points should be provided. User manual with practical & circuit diagram.	01	172000.00
											POWER FACTOR DEMONSTRATOR	Transformer PRIMARY VOLTAGE 0- 230V AC Secondary Voltage : 0- 115 V AC Current rating : 150 mA Transformer Primary Voltage : 0- 230V AC	01	120000.00
												Secondary Voltage : 0- 9 , 15-0-15 V AC Current rating : 300 mA Resistance : 500E, 400 Watt 200E, 400 Watt Capacitor : 12.5µF 440/450V 20µF 440/450V Inductor : 200mH, 1A MCB : 2A Mains supply : 230 V ±10%, 50 HzExclusive and rugged designed panel Designed by considering all the safety precautions User manual with practical & circuit diagram and connecting patch chord.		
											SINGLE PHASE TRANSFORMER	Input voltage: 0-230V AC Output voltage:0-1.1kV AC kVA rating: 5 kVA Safety interlocks : Zero- interlock and door interlock Timer: 1 sec to 30 minutes Type of Cooling: Oil cooled The necessary powder coated control panel will be provided with the transformer equipped with all necessary meters, switches, indicators and trip circuit. Memory switch must be provided in the control panel. Special Feature : 1. Automatic Discharge at the end of experiments 1.Necessary safety and grounding points should be provided.	01	120000.00
												User manual with practical & circuit diagram.		
											POWER MESUREMENT BY TWO WATTMETER METHOD	Mains Supply : Three Phase 415 V ±10%, 50 Hz Load : R - L Meters Used Wattmeter : 500 W (2 Nos.) Voltmeter (MI) : 500 V Ammeter (MI) : 1 A MCB : 10 A Exclusive and rugged designed panel Designed by considering all the safety precautions User manual with practical & circuit diagram and connecting patch chord.	01	115000.00

											THREE PHASE INDUCTION MOTOR	Mains Supply : Three Phase : 415 V ±10%, 50 Hz Motor's Specifications Type : Squirrel Cage Rating : 1 HP Speed : 1440 RPM (No Load) Meters used Wattmeter: 1000 W Voltmeter (MI) : 500 V Ammeter (MI) : 5 A MCB : 10 A Tachometer : 20,000 RPM Exclusive and rugged designed panel Designed by considering all the safety precautions User manual with practical & circuit diagram.	01	135000.00
											SCOTT CONNECTION TRAINER	Three phase Input voltage with standard frequency. Main and Teaser Transformer. Main Transformer Input Winding : 0 - 200 V	01	125000.00
												(50%) ±10%, 50 Hz : 0 - 200 V (50%) ±10%, 50 Hz Output Winding : 0 - 230 V ±10%, 50 Hz Teaser Transformer Input Winding : 0 - 115.6 V (28.9%) ±10%, 50 Hz : 346.4 V (86.6%) ±10%, 50 Hz : 400 V ±10%, 50 Hz Output Winding : 0 - 230 V ±10%, 50 Hz Step down Transformers (2Nos.) Input Winding : 0 - 230 V ±10%, 50Hz Output Winding : 0 - 18 V ±10%, 50Hz Two phase step down outputs available for waveforms observation on oscilloscope. Test points should be provided on board to observe various intermediate signals. Designed by considering all the safety precautions. User manual with practical & circuit diagram and connecting patch chord.		
											SUMPNER'S TEST (BACK TO BACK) TEST ON SINGLE PHASE TRANSFORMER	1.Moving Coil Voltmeter of Range 300V AC and Moving Coil Ammeter of Range 1A AC. 2.Moving Coil Ammeter of Range 10A AC and Single Phase Wattmeter of Range 500W. 3.Miniature Circuit Breaker of Range 16Amps	01	95000.00
												(MCB/ DP) Provided on the Input Side. 4.Designed by considering all the safety precautions. User manual with practical & circuit diagram and connecting patch chord.		
											PARALLEL OPERATION OF TWO SINGLE PHASE TRANSFORMERS	1.Single phase Mains supply -230 V AC ±10%, 50Hz 2.Transformers of 1kVA rating, Primary Voltage : 0 - 230 V and Secondary Voltage : 0 - 200 - 230V 3.Designed by considering all the safety precautions. 4.Voltmeter (MI) : 500 V, Ammeter (MI) : 10 A and MCB (Single Phase) : 10 A User manual with practical & circuit diagram and connecting patch chord.	01	100000.00
											THREE PHASE SINCRONOUS MOTOR	Rating : 5 HP Speed : 1500 RPM Features: Center tapped wattmeter. Designed by considering all the safety precautions. User manual with practical & circuit diagram and connecting patch chord.	01	150000.00
TEQIP-II/CG/CG1G03/40	EEE EMMI LAB	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	225000.00	Shopping	D. Arsonval Galvano Meter	Test points for observing output of different parts. Separate sockets to make different connections	01	45000.00
											Current Transformer Test Bench	The CT Test Bench shall be suitable for testing CT manufactured in accordance to IEC standards. The CT Test Bench shall have Automatic Current generation and voltage regulating unit, Standard CT, Standard burden, PC, Printer, Testing software and connecting cables	01	180000.00
TEQIP-II/CG/CG1G03/43	EEE CIVIL WORKS	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Civil Works	Refurbishment works	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	675000.00	Shopping	Partitioning of lab and staff rooms	Partioning CSE,CIVIL, EEE, ETE Lab, ETE, MECH.	01	75000.00
											Fall ceiling works	ETE/ Different Labs	01	200000.00
											Repairing ,Painting & Flooring	Repairing-doors & windows painting & Distemping of labs, Flooring Plastering and concreting for various jobs	01	100000.00

											Foundation of Machines	foundation of lab equipment /Machines	01	20000.00
											Wiring and Electrification	Electrical wiring with new switch boards, power boards , Electrification of CSE, Civil, Mech.	01	100000.00
TEQIP-II/CG/CG1G03/45	ETE DSP LAB	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	890000.00	Shopping	DSP Trainer Kit		10	40000.00
											Computer System	Desktop System	10	40000.00
											CRO	30 Mhz - 1 Ghz	03	30000.00
TEQIP-II/CG/CG1G03/47	ETE BASIC ELEX	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	96000.00	Shopping	Semiconductor Diode kit	Semiconductor Diode Cha.:- 1. Power Supply requirement :- 230V- 250V Ac, 50Hz. 2.Built in IC Based regulated Power Supply (+Ve & -Ve side) -0- 15V. DC mA continously variable. 3. Following Parts Provided on Signal PCB with connecting terminals. Silicon Diode IN4007 Germanium Diode 0A79 4. All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points. 5. Accessories:- 1. Mannual, 2mm Patch cord. All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02	6000.00
											Zener diode Kit	Zener Diode Char. :-1. Power Supply requirement :- 230V- 250V Ac, 50Hz. 2.Built in IC Based regulated Power Supply (+Ve & -Ve side) -0- 15V. DC mA continuously variable. Following Parts Provided on Signal PCB with connecting terminals. Silicon Diode IN4002 Germanium Diode 0A79 1K- Ohm Resistor 470-Ohm Variable Resistor (Potentiometer) 4. Accessories:- 1. Manual, 2mm Patch cord .All Parts	02	6000.00
												are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.		
											Diode & Zener diode kit	Diode & Zener Diode Cdar. :-1. Power Supply requirement :- 230V- 250V Ac, 50Hz. 2.Built in IC Based regulated Power Supply (+Ve & -Ve side) -0- 15V. DC mA continuously variable. Following Parts Provided on Signal PCB with connecting terminals. Silicon Diode IN4002 Germanium Diode 0A79 1K- Ohm Resistor 470-Ohm Variable Resistor (Potentiometer) 4. Accessories:- 1. Manual, 2mm Patch cord	02	6000.00
											Transistor char. in CE Mode	Transistor Char. In CE Mode :- 1.Built in Power supply (+ve & -Ve side):- 0- 15 0-15V. DC mA continuously variable. 2. Power Supply requirement :- 230V- 250V Ac, 50Hz.AC 3. Following Parts Provided on Signal PCB with connecting terminals. Transistor, Potentiometer- 5KP , 4.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points. 5. Accessories:- 1. Mannual having practical details, 2mm Patch cord .All	02	6000.00
												Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.		

											Transistor Char. in CB Mode	Transistor Char. In CB Mode :-1.Built in Power supply (+ve & -Ve side):- 0- 15 0-15V. DC mA continuously variable. 2. Power Supply requirement :- 230V- 250V Ac, 50Hz.AC 3. Following Parts Provided on Signal PCB with connecting terminals. Transistor, Potentiometer- 5KP , 4.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points. 5. Accessories:- 1. Manual having practical details, 2mm Patch cord .All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02	6000.00
											Half wave Full wave & Bridge Rectifier	Half wave Full wave & Bridge Rectifier :- DC Power supply:+12V, + V, 500mA Ammeter 2mA Mains 230V+-10%,50Hz, Semi Conductor diodes Fabricated on PCB Accessories:- 1. Manual having practical details, 2mm Patch cord . Accessories : Line cord,	02	6000.00
												Manual, Set of patch cords		
											Transistor Char. in CC Mode	Transistor Char. In CC Mode :-1.Built in Power supply (+ve & -Ve side):- 0- 15 0-15V. DC mA continuously variable. 2. Power Supply requirement :- 230V- 250V Ac, 50Hz.AC 3. Following Parts Provided on Signal PCB with connecting terminals. Transistor, Potentiometer- 5KP , 4.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points. 5. Accessories:- 1. Manual having practical details, 2mm Patch cord .All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02	6000.00
											Zener Diode Voltage Regulator Char.	Zener Diode Voltage Regulator Char. :-Power Supply requirement :- 230V- 250V Ac, 50Hz. 2.Built in IC Based regulated Power Supply (+Ve & -Ve side) -0- 15V. DC mA continuously variable. Following Parts Provided on Signal PCB with connecting terminals. Zener Diode 5.6 V 1K-Ohm Resistor 470-Ohm Variable Resistor (Potentiometer) 4. Accessories:- 1. Manual, 2mm Patch cord .All Parts are Soldered on single PCB	02	6000.00
												with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.		
TEQIP-II/CG/CG1G03/48	ETE NTK AYA SYNS	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	126000.00	Shopping	MAXIMUM POWER TRANSFER THEOREM TRAINER	Maximum Power Transfer Theorem Trainer:- Specification:-Built in regulated power Supply +15v /150mA, - +5v /300mA, Input Supply 230VAC / 50Hz mains operated. With Lead, Patch Card & Manual . Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02	6000.00
											SERIES RESONANCE TRAINER	Built in regulated power supply + 15v /150mA ,+5v/300mA, Input Supply 230VAC/50Hz mains operated. With lead , patch cord & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02	6000.00
											PARALLEL RESONANCE TRAINER	Built in regulated power supply + 15v /150mA ,+5v/300mA, Input Supply 230VAC/50Hz mains operated. With lead ,	02	6000.00
												patch cord & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.		

											TWO PORT NETWORK TRAINER	Two port Network Trainer:- Specification:-Built in regulated power Supply +15v /150mA, - +5v /300mA, Input Supply 230VAC / 50Hz mains operated.. With Lead, Patch Cord & Mannual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02	6000.00
											KIRCHHOFF. LAW TRAINER	Kirchhoff's Laws Trainer:- Specification:-Built in regulated power Supply +15v /150mA, - +5v /300mA, Input Supply 230VAC / 50Hz mains opeated. With Lead, Patch Card & Manual	02	6000.00
											THEVEIN'S THEOREN TRAINER	Thevenin's Theorem Trainer:- Specification:-Built in regulated power Supply +15v /150mA, - +5v /300mA, Input Supply 230VAC / 50Hz mans operated. With Lead, Patch Cord & Mannual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	03	6000.00
											NORTONT,S THEOREN TRAINER	Built in regulated power supply + 15v /150mA ,+5v/300mA,In put Supply 230VAC/50Hz mains opeated. With lead , patch card & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02	6000.00
											SUPER POSITON THEOREM TRAINER	Super Position Theorem Trainer:-Specification:-uilt in regulated power Supply +15v /150mA, - +5v /300mA, Input Supply 230VAC / 50Hz mains operated. With Lead, Patch Cord & Mannual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02	6000.00
											RECIPROCITY THEOREM TRAINER	Built in regulated power supply + 15v /150mA ,+5v/300mA,In put Supply 230VAC/50Hz mains operated. With lead , patch cord & Mannual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02	6000.00
											TELLENGEN'S THEOREM TRAINER	Tellegen's Theorem Trainer: -Specification:-Built in regulated power Supply +15v /150mA, - +5v /300mA, Input Supply 230VAC / 50Hz mains operated. With Lead, Patch Cord & Mannual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points. .	02	6000.00
TEQIP-II/CG/CG1G03/49	ETE PROG. C LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	882000.00	Shopping	DESK TOP COMPUTER I 3	WITH TFT MONITOR	20	30000.00
											PRINTER		05	10000.00
											SAC28F001012 AIR CONDITIONER	5 STAR	04	30000.00
											ON LINE UPS	5 KVA	02	56000.00
TEQIP-II/CG/CG1G03/50	ETE ANAG ELEX CIRCT	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	91000.00	Shopping	TWO STAGE R C COUPLED AMPLIFER TRAINER	1.Two Stage R C coupled Amplifier Trainer:- Specification:-Built in regulated power Supply +15v /150mA, - +5v /300mA, Input Supply 230VAC / 50Hz mains operated.With Lead, Patch Cord & Mannual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	04	6000.00
											DIFFERENTIAL AMPLIFER	Built in regulated power	02	6000.00

												supply + 15v /150mA ,+5v/300mA,In put Supply 230VAC/50Hz mains operated. With lead , patch cord & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.		
											TRANSISTOR AMPLIFER (CC , CB , CE)	3. Transistor Amplifier (CC,CB ,CE):-Specification:- Built in regulated power Supply +15v/300mA, Input Supply 230VAC / 50Hz mains operated. With Lead, Patch Card & Mannual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02	6000.00
											PUSH PULL AMPLIFER	4. Push pull Amplifire:- Specification:-Built in regulated power Supply +15v/300mA, Input Supply 230VAC / 50Hz mains operated. With Lead, Patch Card & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	03	6000.00
											ELECTRONICS WORK STATION	7. Electronics WorkStation:- Digital work station (Project Lab) with breadboard DC Supply (5 type), 1MHz pulse Generator, Logic level	01	25000.00
												switches (8Nos.) Logic probe & Bi Colours LEDs etc. Regulated DC Supplies(using low loss R core transformer): +5V-1A (fixed). +- 12V-500mA (Fixed). +- 12V-500mA (Variable). AC Supply : 9V - 0V -9V /500mA. Breadbord: Bereumboard for making various circuits and testing them. External Components / IC can be fitted conveniently. All components and bracboard are mounted On Glass epoxy PCB.		
TEQIP-II/CG/CG1G03/51	ETE DIGITAL ELEX CIRT	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	108000.00	Shopping	BASIC LOGIC GATES	1. Basic Logic Gates (Using Diode Tr.) 1. Inbuilt +5V /300mA power Supply with short circuit Protection 2. Input line & Output lines Toggeles Switches. 3. TTL Compatibility .4. Voltege Level Indication By LEDs 5. Training mannual & connecting patch cords. 6. On Board required Integrated Chip.User mannual with practical & circuit diagram & connecting patch cords. 7.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02	6000.00
											HALF ADDER	2.Half adder :- Inbuilt +5V /300mA power Supply with shot circuit Protection 2. Input line & Output lines Toggeles Switches. 3. TTL Compatibility .4. Voltege Level Indication By LEDs 5. Training manual & connecting patch cords. 6. On Board required Integrated Chip. Accessories : Line cord, Mannual, Set of patch cords 7.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02	6000.00
											FULL ADDER	3.Full adder:- Inbuilt +5V /300mA power Supply with shot circuit Protection 2. Input line & Output lines Toggeles Switches. 3. TTL Compatibility .4. Voltege Level Indication By LEDs 5. Training manual & connecting patch cords. 6. On Board required Integrated Chip. Accessories : Line cord, Mannual, Set of patch cords 7.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02	6000.00
											HALF SUBTRACTOR	4.Half Subtractor:- Inbuilt +5V /300mA power Supply with shot circuit Protection 2. Input line & Output lines Toggeles Switches. 3. TTL	02	6000.00

												Compatibility .4. Voltage Level Indication By LEDs 5. Training manual & connecting patch cords 6. On Board required Integrated Chip. Accessories : Line cord, Mannual, Set of patch cords 7.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.		
											FULL SUBTRACTOR	5.Full Subtractor:- Inbuilt +5V /300mA power Supply with shot circuit Protection 2. Input line & Output lines Toggeles Switches. 3. TTL Compatibility .4. Voltage Level Indication By LEDs 5. Training manual & connecting patch cords 6. On Board required Integrated Chip. Accessories : Line cord, Mannual, Set of patch cords 7.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02	6000.00
											R- S FLIP FLOP	6. R-S Flip -Flop:- Inbuilt +5V /300mA power Supply with short circuit Protection 2. Input line & Output lines Toggeles Switches. 3. TTL Compatibility .4. Voltage Level Indication By LEDs 5. Training manual & connecting patch cords 6. On Board required	02	6000.00
												Integrated Chip.With lead , patch cord & Mannual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.		
											J-K FLIP FLOP	7.J-K Flip- Flop:- Inbuilt +5V /300mA power Supply with shot circuit Protection 2. Input line & Output lines Toggeles Switches. 3. TTL Compatibility .4. Voltage Level Indication By LEDs 5. Training manual & connecting patch cords 6. On Board required Integrated Chip. Accessories : Line cord, Mannual, Set of patch cords 7.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	02	6000.00
											D FLIP- FLOP	8. D Flip- Flop :- Inbuilt +5V /300mA power Supply with shot circuit Protection 2. Input line & Output lines Toggeles Switches. 3. TTL Compatibility .4. Voltage Level Indication By LEDs 5. Training manual & connecting patch cords 6. On Board required Integrated Chip.User mannual with practical & circuit diagram & connecting patch cords.	02	6000.00
											9 M-S/ J-K FLIP FLOP	9.M-S/ J-K Flip- Flop :-	02	6000.00
												Inbuilt +5V /300mA power Supply with short circuit Protection 2. Input line & Output lines Toggeles Switches. 3. TTL Compatibility .4. Voltage Level Indication By LEDs 5. Training manual & connecting patch cords 6. On Board required Integrated Chip. User manual with practical & circuit diagram & connecting patch cords 7.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.		
TEQIP-II/CG/CG1G03/52	ETE LINER INTE CIR LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	478000.00	Shopping	CRO WITH FUNCTION GEN. FRE. COUNTER & POWER SUPPLY	30Mhz -1Ghz ,30MHz , 2 channel oscilloscope 40 MHz trigger band with , 1MHz Function Generator - Sine Square ,Triangle , DC Output , Power Supply ±12v & 5v. Included Accessories :- 1. Manual 2. BNC- Test Prod Cable 3. BNC- Crocodile Cable 4. Test Prod 5. PC Control Software CD 6. Understanding Oscilloscope CD.	05	50000.00
											OP- AMP IC 741 INVERTING AMP.	Built in regulated power supply + 15v /150mA ,+5v/300mA,In	06	6000.00

											put Supply 230VAC/50Hz mains operated. With lead , patch cord & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points			
											OP-AMP IC 741 AS NON INVERING AMP	Built in regulated power supply + 15v /150mA ,+5v/300mA,In put Supply 230VAC/50Hz mains operated. With lead , patch cord & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	06	6000.00
											OPAMP IC 741 AS AC AMPLIFIER	Built in regulated power supply + 15v /150mA ,+5v/300mA,In put Supply 230VAC/50Hz mains operated. With lead , patch cord & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	05	6000.00
											OP-AMP IC 741 DC AMPLIFIER	Built in regulated power supply + 15v /150mA ,+5v/300mA,In put Supply 230VAC/50Hz mains operated. With lead , patch cord & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen	05	6000.00
												printed sectionwise in multi colour with multicolored test points.		
											IC 741 AS DIFFERINTAL AMP.	Built in regulated power supply + 15v /150mA ,+5v/300mA,In put Supply 230VAC/50Hz mains operated. With lead , patch cord & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	06	6000.00
											IC 741 AS ACTIVE LOW PASS FILTER	Built in regulated power supply + 15v /150mA ,+5v/300mA,In put Supply 230VAC/50Hz mains operated. With lead , patch cord & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	05	6000.00
											IC 741 AS ACTIVE HIGH PASS FILTER	Built in regulated power supply + 15v /150mA ,+5v/300mA,In put Supply 230VAC/50Hz mains operated. With lead , patch cord & Manual.All Parts are Soldered on single PCB with complete circuit diagram Screen printed sectionwise in multi colour with multicolored test points.	05	6000.00
TEQIP-II/CG/CG1G03/54	MECH HMT LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	410000.00	Shopping				
		students will be able to understand the subject in the true sense.									Thermal Conductivity of Insulating Powder Appratus	Outer Sphere (Top And Bottom) A. Diameter : 200mm (Approx.) B. Material : Copper Inner Sphere (Top And Bottom) A. Diameter : 100 B. Material : Copper Measuring Instruments: A. Digital Voltmeter, Range: 0 To 300V B. Digital Ammeter Range: 0 To 5 Amps C. Digital Temperature Indicator With or Switch: 0 Range :Ambient To 0- 300deg.c. Thermocouples: A. Type : Cr. Al B. Length: 1 Mt. 05. Electronic Dimmer : 1 No., 1.5 Kw	01	40000.00
											Thermal Conductivity of Metallic Bar Appratus	Control Panel Stand Alone Metallic Powder Coated Panel Specimen Shell: 200mm Dia, 5mm Thick, 1m Long Ms Pipe Tubes: ½" Dia, 1020 mm Long Copper Or Seamless Ms Tubes Insulation Asbestos Cloth / Rope Geyser 1 Liter, 3 Kw, Instantaneous (Ss Hot Water Tank With Pump At Extra Cost)	01	40000.00

												Flow Measurement Measuring Jar With Digital Stop Watch (Rota Meters At Extra Cost). Temperature Indicator Digital Temperature Indicator ,0-200°C Thermocouples Teflon Coated Cr -Al (K- Type)-4 No. Measuring Jar Plastic-1000ml Stop Watch Digital, 1/10 Of A Second, Racer/Pacer Make Specifications For Metal Rod 1) Metal Rod Diameter : 25 mm. Approx. 2) Length of Metal Rod : 445 mm. Approx. 3) Diameter Of Cylindrical Shell Filled With Insulating Powder Approx. 4) Cooling Water Chamber Diameter : 75 mm. Approx. 5) Cooling Water Chamber Length : 100 mm. Approx.			
												Thermal Conductivity of Liquid Apparatus	Diameter Of Pipe :100 mm Material :Brass Length : 90 mm	01	50000.00
													HeaterDiameter :90 mm Mica Cooling Plate Diameter : 100 mm Approx. Thickness Of Liquid :40 mm Measuring Instruments Digital Volt Meter – Range :0 To 300 V Digital Ammeter - Range :0 To 5 Amps Digital Temp. Indicator With or Switch - Range : Ambient To 300deg.c. Thermocouples Type : Cr Al Length : 2 m Qty. : 4 Nos. Main Frame: MS Square Tube 16 Gauge Panel :MS With Powder Coating		
												Transfer Rate and Temp. Distribution for a pin fin apparatus	Blower A. Capacity :350 Watts/ Flow Rate : 1.5 m3/sec Test Section A. Diameter :12mm B. Length :150mm C. Material :Brass Duct A. Size :100x150x500mm B. Material :MS With	01	30000.00
													Powder Coating Measuring Instruments A. Digital Voltmeter Range: 0 To 300 V B. Digital Ammeter Range: 0 To 10 Amps C. Digital Temperature Indicator D. or Switch Range: Ambient To 300o Thermocouples A. Type :Cr. Al B. Length: 2 m. Electronic Dimmer: 1 No. "U" Tube Manometer of Glass		
												Stefan Boltzman Constant of Radiation of Heat Transfer Apparatus	Stefan Boltzmann Section A. Hemisphere Diameter/Material :200mm/ Copper B. Outer Jacket Diameter/Material :250mm/ Copper C. Hylum Base Plate :12 mm Thick D. Test Disc Size :20mm X 1.5 mm Water Tank With Immersion Heater A. Material: S.S. Digital Temperature Indicator With or Switch Range: Ambient To 300o. Thermocouples Type :Cr. Al , Length : 2 m.	01	30000.00
												Heat pipe Demonstrator	Glass Tube A. Diameter/Height :100mm Od/275mm (Approx.) Copper Tube A. Diameter :9mm OD (Approx.) B. Material :150mm (Approx.) Measuring Instruments A. Digital Voltmeter Range: 0 To 300 V B. Digital Ammeter & Range: 0 To 5 Amps C. Digital Temperature Indicator With or Switch Range: Ambient To 300deg.c. Thermocouples A. Type :Cr. Al B. Length: 1 Mt. Dimmer/ Electronic Range: 0 To 10 Amps Rota meter A. Material :Acrylic B. Range :40 To 60 cc/sec Sump Tank: A. Size :200 X 200x 400mm (Approx.) B. Material :S.S	01	40000.00
												Heat Transfer Rate Through Heat Exchanger Apparatus	Control Panel Stand Alone Metallic Powder Coated Panel Specimen Shell: 200mm Dia, 5mm Thick, 1m Long Ms Pipe Tubes: ½" Dia, 1020 mm Long Copper Or Seamless Ms Tubes Insulation Asbestos Cloth / Rope Geyser 1 Liter, 3 Kw, Instantaneous Flow Measurement Measuring Jar With Digital Stop Watch Temperature Indicator	01	50000.00
													Digital Temperature Indicator ,0-200oC Thermocouples Teflon Coated Cr -Al (K- Type)-4 No. Measuring Jar Plastic-1000ml Stop Watch Digital, 1/10 Of A Second		

											Heat Transfer Through lagged Pipe Apparatus	Pipes A. Diameter :50/100/150mm Inner/Outer (Approx.) B. Length :450mm (Approx.) C. Material :G.I./MS D Quantity: 1 No. Each Measuring Instruments A. Digital Voltmeter Range: 0 To 300 V B. Digital Ammeter & Range: 0 To 5 Amps C. Digital Temperature Indicator With or Switch Range: Ambient To 0-300o Thermocouples A. Type :Cr. Al B. Length: 2 m. 04. Voltage Variance :1 No., 05: Insulation : Glass Wool	01	40000.00
											Thermal Conductivity of Insulating Slab Apparatus	GUARDED PLATE SECTION : Main Heater Plate Diameter : 90 mm Material : Brass Ring Heater Diameter : 100 ID / 150 OD mm Material : MICA Ring Heater Plate	01	50000.00
												Diameter : 100 ID / 150 mm OD Material : Brass Asbestos Plate : 150 OD / 12 mm Thick Cooling Jacket Diameter : 150 OD Material : Brass Size : 12 mm Thick MEASURING INSTRUMENTS Digital Voltmeter, Range : 0 To 300 V Digital Ammeter, Range : 0 To 5 Amps Digital Temp. Indicator With or Switch. : Ambient To 300o THERMOCOUPLES Type : Cr. Al. Length: 2m. Dimmer stat range : 0 To 220 Volts Ac		
											unsteady State heat Transfer Apparatus	Control Panel Stand Alone Metallic Powder Coated Panel Specimen Copper 30mm Dia, 30mm Long, Duct / Enclosure MS Powder Coated Duct Of 8"X8" In Size 8" Dia MS Shell With Glass Wool Insulation Heater Band Heater-500w Cooling Fan	01	40000.00
												8" Dia Exhaust Fan Voltmeter Digital Voltmeter Of Range 0-300v Ac Ammeter Digital Ammeter Of Range 0-20 Amp Ac Temperature Indicator Digital Temperature Indicator ,0-400°C Teflon Coated Cr -Al (K- Type)-8 No. Stopwatch Digital Stop Watch. Regulator Electronic Dimmer		
TEQIP-II/CG/CG1G03/55	ETE COMMN.STYM LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	380000.00	Shopping	DSB/SSB AMPLITUED TRANSMITTER	Sine wave form output ranging from 300 Hz to 3.4 KHz ,carrier frequency - 455KHz using coil & transitar, carrier frequency - 1MHz using crystal controlled.Audio Oscillator:With adjustable Amplitude & Frequency (300Hz -3.4 KHz) Audio Output: Amplifier with speaker Modulator: Balanced Modulator with Band pass filter (1MHz) - 2Nos. Balanced Modulator (455KHz) -1 No. Ceramic Bandpass Filter -1No. Carrier Frequency :- 1MHz (crystal controlled) Accessories : Line cord, Manual, Set of patch cords	03	15000.00
											DSB/SSB AMPLITUDE RECIVER TRAINER	DSB /SSB Amplitued Modulation Trainer :- Audio Oscillator:With adjustable Amplitude & Frequency (300Hz -3.4 KHz) Audio Output: Amplifier with speaker Modulator: Balanced Modulator with Band pass filter (1MHz) - 2Nos. Balanced Modulator (455KHz) -1 No. Ceramic Bandpass Filter -1No. Carrier Frequency :- 1MHz (crystal controlled) Accessories : Line cord, Manual, Set of patch cords	03	15000.00
											FREQUENCY MODUALTION DEMODULATION TRAINER	Frequency Modulation Demodulation Triner :- Audio Oscillator : With adjustable Amplitude & Frequency (300Hz -3.4 KHz) FM Modulator : 2 Nos. 1. Reactance Modulator (with carrier Frequency adjustment) 2. Varactor Modulator (with carrier Frequency adjustment) Mixer/ Amplifier : 1No. (with Gain adjustment) Allows FM input signal to be amplitude modulated by a noise input prior to demodulation. Transmitter output Freq. : 455KHz FM Demodulator : 5 Nos. 1. Detuned Resonant Detector 2. Quadrature Detector 3. Foster - Seely Detector 4. Radio - Detector 5. Phase Locked Looked Loop Detector Accessories : Line cord, Manual, Set of patch cords	03	15000.00

											FM RADIO TRAINER	FM Radio Trainer :- Construction: Super Heterodyne Tuning Range : 88 MHz to 108 MHz Inter Mediate Freq. : 10.7 MHz Pilot Frequency :- 19KHz Circuit Block: 1. FM Detector 2. Stereo Detector 3. Stereo Pre - Detector 4. Audio Power Amplifier Tuning : With variable capacitor (Gang) dail marking on board. Receiver Media : Telescopic Antena Amplifire: Class B Amplifier Audio Output : (10W + 10 W) 20 W Speaker : 8 ? (2 Nos.) Switch Fault : 4 Nos.	01	15000.00
											SATELITE COMMUNICATION TRAINER	Satellite Communication Trainer :- Uplink Transmitter- Transmit three signals simultaneously at each up - linking frequency 2450- 2468 MHz up - linking freq. able by freq. ion switch and LED indication 4MHz clock freq. Wide band RF amplifier. No manual matching required PIC 16F84 - 8 Bit RISC processor based PLL 16 MHz Bandwidth Freq. switch and LED indication FM Modulation of Audio and vido 5/5.5 MHz Audio & 8MHz Video Modulation Detachable Dish Antena Radiated Power output 25mW (apporx) with poert control Transmit	01	200000.00
												Audio, Video , Digital / Analog data , Tone, Voice, function generator waveforms etc Separate terminals provided for different inputs included Accessories: 1. BNC to BNC Small 2. Audio- Video Cable 2 Pin 3. BNC to Banana 4. Patch cord 8" 5. Microphone 6. Mains cord 7. Pencil cell 8. Desh Antena 9. Plastic Box of Antena 10. Cable RS 232 11. Cable RS 231 (2m 91fm) 12. CD - Rom 13. CD -		
											COMMUNICATION DEMONSTRATOR TRAINER	Communication Demonstrator Trainer :- Operating Modes- Channel I, Channel II, Channel I & II nate or chopped (approx x. 350 KHz), X-Y operation (Ratio 1:1 Input via CHII),Add/ Sub CH I+- CH II , Invert CHII Vertical deflection (Y)- (Identical Channels):- Bandwidth:- DC -30MHz (-3db) DC - 40MHZ (-db) Risetime:- 17.5 ns (apporx), Deflection coefficients:- Micro-controller based 12 calibrated steps 5 mV / Div - 20/ Div (1-2-5 sequence) . Electronic control, Display on 80 Character backlit Alphanumeric LCD. Accuracy: +- 3%, Hold -Off: Variable Conrtol Stable triggering, Input Impedance: 1 M ? II 30 pf (approx.) Input coupling: DC- AC -GND , Maximum	01	30000.00
												Input Voltage: 350V (DC + peak AC) Included Accessories :- 1. Manual 2. BNC- Test Prod Cable 3. BNC- Crocodile Cable 4. Test Prod 5. PC Control Software CD 6. Understanding Oscilloscope CD.		
TEQIP- II/CG/CG1G03/56	ETE DIGITAL S. PROCE. LAB	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	150000.00	Shopping	DSP LAB TRAINER	Other hardware: External 5 V DC power supply IEEE 1284 compliant male - to female to female cable Hardware Lock CD: Code Composer Studio DSK tools, DSP Lab 2.0 Other Accessories : Audio cables, Head Phone, Microphone, Installtion Manual, Experiments Workbook MATLAB 7.0.4 (Trial version for 30 day) Technical reference guide for TMS320C6713 DSP onboard that allows fullspeed verification of code with Code Composer Studio. The C6713 DSK provides: AUB Interface SDTAM and ROM An anlog interface circuit for Data conversion	10	15000.00
												(AIC) An I/O port Embedded JTAG emulation suppoty		

TEQIP-II/CG/CG1G03/57	ETE MICROWAVE ENGG. LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	300000.00	Shopping	MICROWAVE BENCH	Gunn Power Supply ,16X2 Characters LED ,V 0-10 V, 750 mA ,Modu. Req. 800 To1200 Hz ,Continuous Wave , Int. Modu. Square Wave Audio & PC Modu. PC Interface RS 232 BNC For Gunn Bias N-Type Connector fot pin Bias Power Supply 220v. ±10%,50Hz. Display : SWR 1 - 9,db 0- 10,Modes : normal , Audio PC- interface. ,Gain Control : Adjustable the reference level , variable range 0-10db.,Input Connector : BNC (F) , Input Frequency : 1000Hz± 10% , Power Supply : 220v±10%, 50Hz., Gunn Oscillator :1, Pin Modulator :1, Isolator : 1,Frequency Meter (Direct Readdout) : 1, Fixed Attenuator 3 db, Varible Attenuator :1 , Slotted Section : 1, Tunable probe:1,detector Mount :1 Movable Short :1, Matched Tramination :1 , Waveguide Stand :4, S.S. Tuner :1, Fixed Short :1, Magic Tee Phase Shifter , Accessories : Cooling	05	60000.00
												Fan :1, BNC toBNC Cable :1 , BNC to Open Cable:1, Smith Chart :100. Accessories : Line cord , Mannual, Set of patch		
TEQIP-II/CG/CG1G03/58	ETE MICROCONTROLLER LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	440000.00	Shopping	MICROCONTROLLER DEVELOPMENT SYSTEM	Microcontroller Development System & Interface Moduel : MC 01 ADC/DEC moduel, MC02 Computer interface moduel, Serial Communication : RS 232 Port Baud rate : 9600 bps MCU : AT90S8515 Crystal frequency : 11.0592 MHz Size of Breadboard : 175 67 8mm Tie Points: 1685 Test Point :40 DC Power Supply : +12V,-12V, +5V & -5 V Programmer unit : Ready to run programmer will program AT89C51/52 & 55 Device Power Supply : +-220 V 10% , 50Hz Power consumption : 20VA (approx) 105 Included Accessories: RS- 232 serial cable , Mains cord , Operating and Experimental manual 2mm Patch cords Four 20 Pin FRC cable , One 10 pin	36	10000.00
												FRC cable Software CD		
											MICROCONTROLLER PROGRAMMER	Universal type device support more than 6000 USB intrface built in digital IC tester. Accessories : Line cord, Manual, Set of patch cords	08	10000.00
TEQIP-II/CG/CG1G03/59	ETE MICROPROCESSOR LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	400000.00	Shopping	8085 MICROPORCESSORE TRAINER KIT	8085 CPU operating at 6.144 MHz ,8Kb of monitor Program , 8Kb of RAM with Battrery back up 2 Nos 8255,8253,8251,8259, Peripheral Interfece, ADC0809,DAC0800,relay, opto Coupler, Speaker Interface. User mannual with practical & circuit diagram & connecting patch cords.	30	10000.00
											PROGRAMMER & SIMULATOR KIT	8085 BESED Minimum 800 MHz processor, 64MB of RAM.	10	10000.00
TEQIP-II/CG/CG1G03/60	ETE OPTICAL FIBER LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	655000.00	Shopping	OPTICAL FIBER KIT	FS1 : 3 ft of .25mm, .55mm, .75mm, 1mm & 2mm Unjacketed fiber. 6" of our SGS7 , 1 ft of the EG25 Endglow cable, 1 ft of LG5-32, 1 ft of LG64, 1 ft of E1000 Simplex,6" , .* Fiber Optic Inventors Kit . Kit includes with 1 ft of EG32 Endglow	20	20000.00
												cable, 1 ft of SGS3 Sideglow Cable, 3 ft of U1000 fiber, FO-75 End- piece, Push-Pin, Foam Core, Mini Nova RGB light unit w/ tilt switch, PC-2 Cutter, Suction cups, .* FSK-2 1mm plastic fiber to AMP . get 8 ft , 1 Pocket Cutter, DNP AMP Connectors: 43-1, 42-1, 46- 1, 87-1, & 51-1. 1- LED Red/Blue Flasher, .* FCK 1 Fiber Craft Kit, this Kit comes with 1 Dual LED Blinker with R/B (9v battery included), 1 ft of EG50 Endglow cable, Tubing, 2 ft of LG62,,Fiber Rainbow Lighting Kit: 1.) Mini Rainbow Driver, with 7 Color Measures: 3 1/4 x 5/8",		

											RF SIGNAL GENERATOR	N9310A RF SIGNAL GENERATOR , 9 kHz-3GHz Professional Performance compact size for general purpose testing needs : 9kHz to 3ghZ CW output, 20hZto 80 kHz low frequency (LF) output , -127 to +13 dBm output level range (maximum +20dBm settable) , - 95 dBc/hZ Ssb phase noise. Complete feature det : Full sweep function : RF (9kHz to 3GHz) / Amplitude (-127 to +13 dBm), LF (20Hz to 80 kHz). Extensive analog modulation : AM,FM, Phase , and Pulse modulation . Optional IQ	03	60000.00
												modulator, 40 MHz bandwidth.		
											POWER METER	Detector : Silicon detector, Range: 0dBm to - 60 dBm, Disply : 12mm lcd, Wave length : 660&950nm", Connector: SMA, Accuracy : 0.5 dBm, Power: 9V Battery, Size (mm.): W 100 x D 45xH175	05	15000.00
TEQIP-II/CG/CG1G03/61	ETE VLSI LAB 1	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2013	500000.00	Shopping	SOFTWARE	VLSI LAB SOFTWARE C ++ , XLINK MATLAB ETC.	01	500000.00
TEQIP-II/CG/CG1G03/62	ETE VLSI LAB 2	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2013	1386000.00	NCB	CRO 30 MHZ - 1GHZ	CRO -30MHz-1GHz :- Operating Modes- Channel I, Channel II, Channel I & II nate or chopped (approx x. 350 KHz) , X-Y operation (Ratio 1:1 Input via CHII), Add/ Sub CH I+ CH II , Invert CHII Vertical deflection (Y)- (Identical Channels):- Bandwidth:- DC -30MHz (-3db) DC 40MHZ (-db) . Included Accessories :- 1. Manual 2. BNC- Test Prod Cable 3. BNC- Crocodile Cable 4. Test Prod 5. PC Control Software CD 6. Understanding Oscilloscope CD	33	30000.00
											VLSI DEVELEOPMENT PLATFORM	VLSI Development	10	10000.00
												Platform :- Xilinx Family : SPARTAN 2, XC2S50PQ20 Device Density : 50 K gates, 1728 Logic Cells 2 Crystal 8 MHz & 25 MHz, Master Reset key for hardware reset, Program Key for FPGA reconfiguration EPROM Socket : in PLCC package for FPGA backup Configuration Methods: JTAG Interface (Boundary Scan), Slave Serial Interface, PROM Interface External I/O's : 40 pin, 4 header connector Number of I/O's : 176 Power Supply : 220/110V, 50 Hz / 60 Hz Power Consumption : 2.5 VA (approx. User manual with practical & circuit diagram & connecting patch cords.		
											FUNCTION GENEROTOR	Function Generator 1MHz - 5MHz :-Operrating Modes (Function):- Sine, Square, Triangle, Ramp, Pulse and TTL Frequency Range: 0.5 Hz MHz in 7 Steps (variable) Ferquency Accuracy : +- 0.5 % digits. Sine wave Distortion : 1.0 % typical Square wave / Pulse Rise & Fall time: < 50ns. Pulse Duty Cycle: 15 % -85 % var. (min. width 200 ns) Triangle Non - Linearity : < 1% (typical) Frequency Display : LCD controlled by Menu Keys. Out Put Impedance : 50?	37	8000.00
												Out Voltage: 20 Vpp Open Circuit Attenuation: 20,40 dB (Fixed) and 20dB (Variable in between) Level Flatness : +- 0.2dB up to 500KHz , and +- 0.5 dB upto 5, MHz DC Offset: +- V (approx.)adjustable Internal Sweep : Sweep width : approx 1:100 Sweep Speed: 20ms -4s Modulation: AM Blande, AM Standard, FM & PWM Modulation Modulation Input :2 Vpp max. Included Accessories:- 1. BNC to BNC Cable 2. Mains Co		

TEQIP-II/CG/CG1G03/67	MECH STM LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	685000.00	Shopping	TORSION TESTING MACHINE	Its should be capable of conducting Torsion and Twist Test on various metals, wires, tubes and sheet materials. Torque measurement can be done by appropriate dynamometer Torque ranges shall be adjusted. It should be applied to specimen by geared motor through a gearbox. Auto- graphic recorder shall be provided to know the relation between torque and angle of twist on the test specimen.	01	150000.00
											BRINELL HARDNESS TESTING MACHINE	Testing Machine Load range 500-3000kgf in stages of 250, digital display automatic loading & releasing, printer facility	01	75000.00
											IMPACT TESTING MACHINE	ParticularsCharpy & Impact TestIzod Test Pendulum angle 130 – 150o 80 -90 o □ Pendulum effective weight 20-25 kg20- 25 kg Pendulum speed5 - 8 m/s3 - 5 m/s Pendulum impact energy 25 - 35 kg-m 15 - 20 kg-m Min Graduation0.2 kg - m0.1 kg-m Distance of axis of hammer rotation and center of test piece / point of test piece hit by hammer800 - 1000 mm800 - 1000 mm Max. permissible loss by friction and windage etc. 0.5% of max impact energy0.5% of max impact energy	01	80000.00
											FATIGUE TESTING MACHINE	Maximum Bending moment – 200-250 Kg cm. BENDING MOMENT ADJUSTASBLE:- 25 - 125 Kg Cm. Range:- 25 – 125 kgs cm with least count 1 Kg cm . Gripping Diameter of Specimen - 5 - 10 mm. Accuracy of Bending Moment +/- 1%.Digital	01	75000.00
												Counter Number of Digits – 10.Power required: 0.5 - 1.0 HP. Main supply – 3 phase, 440V, 50 Hz A C.		
											SPRING TESTING MACHINE	Capacity: - 1.5 - 2 Tons. For testing / measuring the compression / tension of springs. The machine is provided with both drives i.e. motorized as well as hand operated for most accurate working	01	80000.00
											CUPPING TESTING MACHINE	Capable to perform cupping cone test on various sheet metals, thickness not more than 4 mm.	01	50000.00
											VICKERS HARDNESS MACHINE	Test loads 5,10,20,30,50 KG magnification 70x	01	100000.00
											COLUMN TESTING MACHINE	8Column testing machine Technical Data Test bar length: max. 700mm Bore of the probe receptacle: D=20mm Test force: max. 2000N Stroke of the load spindle: max. 10mm Shear load: max. 20N Lateral deflection: max. 20mm Measuring ranges - dial gauge: 0..20mm, graduation: 0.01mm - load transducer: 0..2500N, graduation: 50N Dimensions and Weight l x w x h : 620 x 450 x 1150 mm Weight : approx. 65kg	01	75000.00
TEQIP-II/CG/CG1G03/68	MECH RAC LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	570000.00	Shopping				
											CUT SECTION OF HERMITICALLY SEALED COMPRESSOR	All the components should be clearly visible& labeled. The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students.	01	10000.00
											CUT SECTION MODEL OF ACTUAL DOMESTIC REFRIGERATOR	All the components should be clearly visible& labeled. The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students.	01	80000.00
											REFRIGERATION TUTOR TEST RING	Equipped with 1) Compressor 2) Air Cooled Condenser 3) Expansion Device 4) Rotameter 5) Refrigerant Used. R-134 a. 6) Energy Meter. 7) Ammeter having Range 0-15 amp. 8) Dimmer stat . 9) Pressure Gauges. 10) Digital. Temperature Indicator 11. Solenoid	01	100000.00
												Valve 12 H.P.L.P. Cut- Out 13) Thermostat 14) Service Valves as per requirement		

											MECHINCAL HEAT PUMP TEST	The Experimental setup should be equipped with Hermitically sealed compressor,Water Cooled Condenser/ vaporator Type Hand Shut off Valves Size ¼ Inch, Filter Drier, Energy Meter, Thermostat, Digital Temperature Indicator, Sump Tank, Pump and Powder Coating Material.	01	100000.00
											AIR & WATER HEAT PUMP TEST RIG	COMPRESSOR :1/3 ton WATER COOLED CONDENSER,WATER COOLED EVAPORATOR,AIR COOLED CONDENSER,AIR COOLED EVAPORATOR,REFRIGERANT SIGHT GLASS, HAND SHUTT OFF VALVES, FILTER DRIER, ENERGMETER, ANEMOMETER, COMPOUND & PRESSURE GAUGE, VOLTAGE STABILIZER and other measuring Instruments	01	100000.00
											VAPOUR ABSORPTION SYSTEM TEST RIG	The equipment consists of a Vapour Absorption type Refrigerator (Electrolux type) mounted on a portable table with metal panel.	01	100000.00
												The fluid (refrigerant) utilized is mixture of ammonia (NH3), water & hydrogen contained in a suitable sealed circuit & is externally heated by a resistance type electric heater. SYSTEM COMPONENTS: Refrigeration cabinet with Absorber, Condenser, Generator, Evaporator & electric heater. Measuring Instruments :- Digital Temperature Indicator : -30 to 200o Digital voltmeter : 0 to 300 V AC Digital ammeter : 0 to 10 Amp AC		
											COOLING TOWER TEST RIG	08 COOLING TOWER TEST RIG 01. Cooling Tower a) Size: 250 x 250 mm b) Height: 1000 mm c) Material: Aluminum body with acrylic frame D) Packing Sheets: Perforated Aluminum corrugated 02. Blower a. Capacity: 1HP 03. Geyaser a. Capacity: 3KW 04. Digital Temperature Indicator: a. No. of Digits :4 Digits 0 b. Range: Ambient to	01	80000.00
												200o 05. Thermocouples a) Length: 2 m. b) Type: Cr. Al c) Sheathing: Wire mesh sheathing 06. Air Flow measurement: U Tube Manometer a. Material: Glass b. Size: 300mm c. Media: Mercury 07. Water flow measurement: Rotameter a. Range: 0 to 60 cc/sec 08. Calibrated water tank a. Material: S.S/18 Swg b. Size: 200 x 250 09. Starter		
TEQIP-II/CG/CG1G03/71	MECH ROBO LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	749000.00	Shopping	5 AXIX ROBOTICS ARM SYSTEM	Gripper Joint rotation : 180 degrees Bicep to elbow Pivot holes C/L (centerline) to C/L: 6". Elbow to wrist Pivot holes C/L to C/L : 5" Wrist pivot hole C/L to center of gripper: 4" open, 7" close Wrist pivot hole C/L to end of gripper : 6 open,9" close Weight (including servos) : 2.5 lbs Maximum lift capability : 300.00g or higher	01	300000.00
											HEX CRAWLER ROBOT	Ground Clearance 4" Payload Capacity 10 lbs Electronics Parallax Board of education(BOE)	01	40000.00
												Parallax Servo Controller (PSC) Cored Metal Brush Motor Weight 2 kg		
											THE MECHATRONICS ROBOT	Degrees of freedom 15 axes (6 for arms x 2, 2 for neck, 1 for waist) Payload (TCP) 1.5 kg (one arm)3.0 kg (two arms) Position stabilization time Within 0.5 sec Positioning repeatability Within 30 µm Weight 30 kg	01	300000.00
											ULTRASONIC RANGE FINDER	Range: 2-5m, 6/9V dc supply,Current- 100-300 mAmp should be equipped with visible indicators and plug & play cables	01	15000.00
											SERVO POWER SUPPLY	Capacity - 1KVA, input voltage 200 – 300 V, output voltage 220 -230 v.	01	20000.00

											INFRARED OBJECT/DISTANCE DETECTOR	Physical Attributes Dimensions [IR Unit] 2" x 3/4" x 7" Dimensions [Conditioner] 2" x 7/8" x 3/8" Encasement Protective Heat sink Temperature Range -30°C to 100°C Sensing Specifications Physical Range Approximately 20-200cm Response Time Approximately 40ms Electrical Specifications Voltage Source 5 Volts Minimum Current Source 80 mA Voltage Returned by Sensor 0.25 Volts to 4.75	01	5000.00
												Volts		
											A 7.2V BATTERY CHARGER	Size: 6 AA Cells, configuration: Side by Side Capacity: 700 mAh Voltage: 7.2V	01	2000.00
											BLUE TOOTH TRANSDUCER	It should be highly Sensitive, Linear output, Resonance frequency 30 KHz, Sampling frequency 50KHz , Power – 2 AAA Alkaline batteries.	01	25000.00
											BLUE TOOTH PC ADAPTOR	1.USB 3.0 Bluetooth Adapter 2.Rate: 3Mbps 3.Package Weight: 30 gm 4.Support Voice Data	01	2000.00
											VARIOUS WOODEN ARM MODULES	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Also enclose the model design, catalogue and other necessary details. Exclusively for Educational purpose for the arm movements of 1.Scara robot 2.Gantry robot 3.Articulated robot 4.Rectangular coordinate robot 5. Cylindrical coordinate robot 6.Spherical coordinate robot etc	10	2000.00
											MODULES	Bluetooth Transceiver Module Frequency: 2.4 GHz Transmit Power: 4dBm (max) Open field range: 10m. Easy integration with the	01	20000.00
												microcontroller for point Communication. Seamless connectivity with standard Bluetooth devices. Perfect for wireless cable replacement.		
TEQIP-II/CG/CG1G03/73	INST_LIBRARY	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Books & Learning Resources	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	900000.00	Shopping	TEXT BOOKS	Books related to the various branch of Engg. in the institution.	2000	400.00
											REFERENCE BOOKS	Books related to the various branch of Engg. in the institution.	100	500.00
											JOURNALS	Books related to the various branch of Engg. in the institution.	20	2500.00
TEQIP-II/CG/CG1G03/75	MECH ICE LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	691000.00	Shopping	EXHAUST GAS ANALYZER	GAS FLOW RATE: 1 Liter/Min. (adjustable) SAMPLING HANDLING SYSTEM: SS probe, tubing with easily detachable connectors, water Separator cum filter, disposable particulate fine filter. SAMPLING HANDLING SYSTEM: With a built – in pump. OTHER FEATURES: (1) ion of fuel type (2) Auto fresh air intake during auto zero. 3) Line leak check facility. (4) CO	01	250000.00
												correction. PRINTER OUTPUT: CO, O2, CO2 in %. HC & NO in ppm. OPERATING TEMPERATURE: 5 – 45o. POWER SUPPLY: 230 V or 10 V / 12 V battery.		
											CUT SECTION MODEL OF FOUR CYLINDER FOUR STROKE CAR ENGINE (PETROL) WORKING (AMBASSADOR)	The model is made out of full size original four stroke, four cylinders, and used car engine. Maximum parts and accessories like three of the cylinder, cylinder head, inlet and Exhaust manifolds, Fuel pump, oil pump, etc. are sectioned to show the internal constructional details, miniature bulbs are provided with spark plug to show the sequence of firing order, while the engine is running for demonstration. This is made upto Flywheel and is mounted on a sturdy iron frame. The model is coupled to a F.H.P single phase 220/230 V A.C. Motor through a Reduction gear unit to get the low speed rotation of the Flywheel and the engine (around 15 to 20 rpm).	01	50000.00

											CUT SECTION MODEL OF FOUR STROKE SINGLE CYLINDER DIESEL ENGINES	The model is made out of used single cylinder Diesel engine. Maximum parts such as piston, cylinder, cylinder head, inlet and Exhaust manifolds, Fuel Injection pump, oil pump, Fuel Filter, Injector, etc., are sectioned to show the internal constructional	01	50000.00
												details of the engine. The working of individual parts and accessories like Valves, piston, pumps, Crank, Camshaft, etc., can be demonstrated. This model is fixed on a sturdy iron frame.		
											CUT SECTION MODEL OF TWO STROKE SINGLE CYLINDER PETROL ENGINE (WORKING)	This model is made out of used engine, suitably sectioned to show the internal construction of the engine, gear box, clutch and rear wheel mechanism and the model is fitted on a sturdy iron frame. The complete internal details can be demonstrated by operating the kicker lever to show the working of the piston, sparks from the spark plugs can also be shown.	01	20000.00
											DEMONSTRATION BOARD OF IGNITION SYSTEM OF AN AUTOMOBILE 4 WHEELER (WORKING)	This open demonstration- working unit is made out of original used parts such as switches, ignition coil, Distributor, four spark plugs and a battery for power source, with necessary wiring connections. By switching on the switch and by giving rotation to the Distributor, Sequential Sparks in the spark plugs can be demonstrated.	01	20000.00
											DEMONSTRATION BOARD OF FUEL SUPPLY SYSTEM OF A PETROL ENGINE	This demonstration board consists of cut sectioned used parts such	01	5000.00
												as tank, petrol pump, Filter, Carburetor, etc., to show the Fuel supply system		
											DEMONSTRATION BOARD OF FUEL SUPPLY SYSTEM OF DIESEL ENGINE	This demonstration board consists of cut sectioned used parts such as Fuel tank, Filter, Fuel Injector with Atomizer, etc., to show the Fuel supply system.	01	5000.00
											CUT SECTION MODEL OF MECHANICAL BRAKE SYSTEM (WORKING)	This model is made out of original used parts such as Brake drum, Brake Shoes, Brake peddle, etc., suitably sectioned and mounted on a wooden base. By operating the Brake drum and applying the Brake pedal this model can be demonstrated.	01	10000.00
											WORKING MODEL OF FOUR CYLINDER FOUR STROKE MPFI CAR ENGINE (PETROL) CUT SECTION	The model is made out of full size original four stroke, three cylinders, used MPFI car engine. Maximum parts and accessories like three cylinder, cylinder head, inlet and Exhaust manifolds, Fuel pump, oil pump, MPFI accessories such as Throttle body, petrol injector, fuel pump module etc. are sectioned to show the internal constructional details, miniature bulbs are provided with spark plug to show the sequence of firing order, while the engine is running for demonstration. This is made up to Flywheel and is mounted on a sturdy iron frame. The model is coupled to a F.H.P single	01	75000.00
												phase 220/230 V A.C. Motor through a Reduction gear unit to get the low speed rotation of the Flywheel and the engine (around 15 to 20 rpm).		
											CUT SECTION MODEL OF CENTRIFUGAL CLUTCH (HONDA ACTIVA)	This model is made out of original New parts, will be suitably sectioned to demonstrate the internal construction details showing the minute information, and working of the same, the model will be suitably painted and mounted on a navopan wooden base.	01	10000.00
											CUT SECTION MODEL OF ALKALINE BATTERY	This model is made out of original used parts, will be suitably sectioned to demonstrate the internal construction details showing the minute information, and working of the same, the model will be suitably painted and mounted on a wooden base.	01	5000.00

											DEMONSTRATION BOARD OF ELECTRONIC IGNITION SYSTEM OF AN AUTOMOBILE 4 WHEELER (WORKING)	This open demonstration working unit is made out of original used parts such as switches, Electronic ignition coil, Distributor, four spark plugs and a battery for power source, with necessary wiring connections. By switching on the switch and by giving rotation to the Distributor, Sequential Sparks in the spark plugs can be demonstrated.	01	10000.00
											CUT SECTION MODEL OF DISC BRAKE SYSTEM TWO WHEELER	This model is made out of original used parts, will be suitably sectioned And Arranged to demonstrate the internal construction details showing the minute information such as the disc brake assembly, master cylinder on the handle, its piping, front wheel assembly with disc, handle bar with cylinder and brake lever etc., and working of the same can be show by operating the brake lever, the model will be suitably painted and The entire model is mounted on a sturdy iron frame.	01	10000.00
											SINGLE CYLINDER 2 STROKE PETROL ENGINE FOR PLOTING PORT TIMING DIAGRAM	The actual working model of Single Cylinder, 2 - Stroke petrol engine should be equipped with all necessary attachment to plot the Port timing diagram. It should also be thoroughly sectioned to see the working of inner components.	01	17000.00
											SINGER CYLINDER 4 STROKE DIESEL ENGINE FOR PLOTING VALVE TIMING DIAGRAM	The actual working model of Single Cylinder, 4 - Stroke diesel engine should be equipped with all necessary attachment to plot the Valve timing diagram. It should also be thoroughly sectioned to see the working of inner components.	01	17000.00
											SINGLE CYLINDER 2 STROKE DIESEL ENGINE FOR PLOTING PORT TIMING DIAGRAM	All the parts should be Labeled. In this model the working of engine is shown with the help of actual parts assembled on a angle iron frame. This model helps the student to understand the working of the actual engine and port timing very easily. The model will be supplied with very interesting literature regarding working of the engine and Drawing of Port Timing Diagram	01	50000.00
											CUT SECTION MODEL OF TWO STROKE SINGLE CYLINDER DIESEL ENGINES.	The model is made out of used single cylinder Diesel engine. Maximum parts such as piston, cylinder, cylinder head, inlet and Exhaust manifolds, Fuel Injection pump, oil pump, Fuel Filter, Injector, etc., are sectioned to show the internal constructional details of the engine. The working of individual parts and accessories like Valves, piston, pumps, Crank, Camshaft, etc., can be demonstrated. This model is fixed on a sturdy iron frame	01	50000.00
											SINGLE CYLINDER 4 STROKE PETROL ENGINE FOR PLOTING VALVE TIMING DIAGRAM	The actual working model of Single Cylinder, 4 - Stroke petrol engine should be equipped with all necessary attachment to plot the Valve timing diagram. It should also be thoroughly sectioned to	01	17000.00
												see the working of inner components.		
											INTERNL AND EXTERNAL SHOE BRAKE COMPLETE SET WITH ACCE	This model is made out of original used parts such as Brake drum, Brake Shoes, Brake peddle, etc., suitably sectioned and mounted on a wooden base. By operating the Brake drum and applying the Brake pedal this model can be demonstrated.	01	20000.00
TEQIP-II/CG/CG1G03/76	MECH DOM LAB	Equipment/ Instruments listed is necessaryEquipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	240000.00	Shopping	UNIVERSAL VIBRATION APP.	THE UNIT IS SUPPLIED WITH FOLLOWING EXPERIMENTS Oscillation of simple pendulum Oscillation of compound pendulum. Radius of gyration of Bi- Filar suspension. Undamped torsional vibration of single rotor system. Damped torsional vibration of single rotor system. Undamped torsional vibration of double rotor system. Free vibration of helical coiled spring. Free vibration of spring mass system. Forced damped vibration of a spring mass system. Lateral vibration of simply supported beam.	01	80000.00
												Verification of Dunker ley's rule		

											WHIRLING OF SHAFT APP.	Shafts made from steel having the following nominal dimensions. (approx.) Diameter in mm (in) Length in mm.(in) 4.5 or (3/16) 900 or (36) 6 or (1/4) 900 or (36) 7.5 or (5/16) 900 or (36) One kinematic coupling and bearing for fixed or free ends without restraint. An electric motor - universal, 5000 rev./min., 1/6 HP A.C motor. A dimmer stat for controlling speed of motor. Specimen shaft is to be changed after it bends. Dimensions and Weight (approx.) Width 33 cm, Length 160 cm, Height 33 cm, weight 70 Kg	01	30000.00
											STATIC AND DYNAMIC BALANCNG APP	Drive motor : ¼ H.p motor. Balancing weights : 6 Nos. with different sized eccentric mass for varying the unbalance. Cord and Container system with precision steel balls for relative weight measurement	01	30000.00
											MOTORISED EPICYCLIC GEAR TRAIN AND HOLDING APP.	External type Epicyclic gear train. Bearing block for input and output shafts are mounted on a base frame. A gear train with holding drum and a handle. B) Internal type Epicyclic gear train. i) A compact gear train. ii) Variable speed D.C shunt motor - 1 HP. 1500 rpm, 230V.iii) Rope brake arrangement to measure output torque and holding torque. C) Control Panel consisting of: a) Digital Ammeter & Voltmeter. b) RPM Indicator. c) On-Off switch. d) D.C. dimmer stat for varying speed.	01	40000.00
											MOTORISED GYROSCOPE	Disc rotor - 30 cm dia, 10mm thick (approx) Drive - Ac/Dc Single phase Motor overall size - 30 cm Dia., base, 50 cm Height Approx. weight of unit - 30 kg. Digital hand tachometer ; 0- 5000 rpm. speed controller to control to control the speed	01	30000.00
											(UNIVERSAL)GOVERNER APP	Drive unit D.C. motor 1/4 H.P., 0- 1500 rpm, 220 V.D.C Speed control unit working on single phase AC 230V supply with 0- 200 VDC output. Belt and pulley system to give spindle speed 100 to 500 rpm. Governor mechanisms with necessary springs and weights as follows: (1) Watt, (2) Porter, (3) Hartnell, (4) proell	01	30000.00
TEQIP-II/CG/CG1G03/77	MECH ECS LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	540000.00	Shopping	TWO CYLINDER TWO STAGE RECIPROCATING AIR COMPRASSOR TEST RIG	No. Of Stages: Two No. Of Cylinders Intercooler :One Power Rating: 3 Hp Displacement: 300 Lpm (Approx) Max. Working Pressure: 12 Kg/Sq. Cm Motor Power Rating: 3 Hp, 440 V, 50 Hz, 3 Ph, Ac Air Intake: Air Drum / Orifice Plate / 'U' Tube Manometer Controls: Pressure Switch, Safety Valve, Air Delivery Valve, Water Drain Valve Measurements: Digital Temperature Indicator Speed: Digital Rpm Indicator Pressure Guages Power: Energymeter Pannel: M.S. Pannel With Powder Coating Frame: M.S. Square Tube	01	100000.00
											AXIAL FLOW COMPRESSOR WITH FLOW DISCHARGE TUNNEL	Equipped with Compressor – Rotor - standard aerofoil section Guide vanes - Flat guide vanes, Butterfly Valve on discharge side. Rotor, Guide vanes and butterfly valve are housed in a duct. Orifice meter. Pressure tapping at inlet & discharge with Motor. Water manometer, Energy meter	01	200000.00
											CUT SECTION MODEL OF LA - MONT BOILER	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Also enclose the model design, catalogue and other necessary details. Exclusively for Educational purpose	01	5000.00
											CUT SECTION MODEL OF BENSION BOILER	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Also enclose the model design, catalogue and other necessary details. Exclusively for Educational purpose	01	5000.00

											CUT SECTION MODEL OF VELOX BOILER	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Also enclose the model design, catalogue and other necessary details. Exclusively for Educational purpose	01	5000.00
											EXPERIMENTAL SETUP OF FLAT PLATE COLLECTOR WITH SOLAR PUMP	Collector Size : 2030 mm L x 1030 mm W x 100 mm H Number of fins : 9 Nos. Maximum Working Pressure : 6 kg / sq. cm Absorber Material : Electro Grade-Copper-Copper Copper Quality : 99.99% 0.02 Pure Absorber Coating Black Chrome Copper Sheet Riser Tubes & Header Tubes : Copper tube Absorber Flanges Absorber Area : 2 sq. meter + 0.1 sq. meter / collector Collector Box : Extruded Aluminum Solar Section 100 mm x 25 mm Collector Bottom Sheet : Aluminum, thickness 0.71 mm Glazing : Toughened glass, Thickness 4 mm	01	50000.00
											EXPERIMENTAL SETUP OF FOCUSING TYPE PARABOLIC SOLAR COLLECTOR	Type of Focus : Point Lens or Mirror : Mirror Sun's Concentration : >1000 Tracking : Yes Typical Application :Electricity	01	75000.00
											SOLAR MODULES PANELS - 20 ,40, 110, WATT	solar modulus of-20 watt 40 watt , 110 watt capacity	01	100000.00
TEQIP-II/CG/CG1G03/78	MECH AUTO LAB	Equipment/ Instruments listed is necessaryEquipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	520000.00	Shopping	WORKING CUT SECTION MODEL	This model is made out of	01	10000.00
											OF DRUM BREAK UNIT	original parts such as Two Brake drum assembly, two master cylinder (one sectioned), wheel cylinders (one sectioned), Brake Shoes, etc., the model can be demonstrated by operating the lever provided		
											CUT-SECTION MODEL OF DEMONSTRATION CHASIS WORKING WITH ELECTIRCALS OF A CAR	The model is made out of full size original used car chassis consisting of the four-stroke three-cylinder petrol engine. The model must be capable of to show the following systems :- TRANSMISSION SYSTEM, FUEL SYSTEM, EXHAUST SYSTEM, LUBRICATION SYSTEM SUSPENSION SYSTEM, BRAKING SYSTEM, STEERING MECHANISM, ELECTRICAL SYSTEM	01	150000.00
											CUT SECTION MODEL OF STEERING GEAR BOX (WORKING) WITH WHEEL AND AXLE:	This model is made out of full size original parts, suitably sectioned and to demonstrate the working of Steering wheel worms, Steering arm, etc., The Arrangement Of Wheels And Axle Connecting To steering system will be done so the movement of the wheels when rotating the steering wheels can be displayed.	01	20000.00
											CUT SECTION MODEL OF SYNCHRONOUS GEAR BOX (WORKING):	This is made out of original full size used gearbox, suitably sectioned to show the details of gear mechanism of forward and	01	20000.00
												reverse speeds. A Crank lever is provided to demonstrate the mechanism. Complete unit is mounted on a sturdy iron frame.		
											CUT SECTION MODEL OF SLIDING MESH GEAR BOX OF TATA VEHICLE (WORKING):	This mode is made out of original full size used gearbox, suitably sectioned to show the gear mechanism of forward and reverse speeds. A Crank lever is provided to demonstrate the mechanism. Complete unit is mounted on a sturdy iron frame	01	20000.00
											CUT SECTION MODEL OF FULLY FLOATING DIFFERENTIAL AND REAR WHEEL MECHANISM (WORKING):	This model is made out of original used heavy vehicle parts, suitably sectioned to show clearly the action of Differential gear box, such as pinion crown wheel in Differential and Brake drums in Rear axle, A Crank handle is provided to demonstrate the model. The model is mounted on a sturdy iron frame.	01	25000.00

											CUT SECTION MODEL OF THREE QUARTER FLOAT DIFFERENTIAL AND WHEEL MECHANISM (WORKING):	This model is made out of original used light vehicle, suitably sectioned to show the action of Differential gear box and Brake drums in Rear axle. A Crank handle is provided to demonstrate the model. The whole model is mounted on a sturdy iron frame	01	25000.00
											MODEL OF AIR BRAKE SYSTEM WORKING	The model is made out of Original parts such as Air compressor, Unloaded valve, foot valve, Booster, Wheel assembly, air tank, control valve etc The Brake system will be fitted with two front wheel assembly complete (with out axle) and the drum will be suitably sectioned to show the working of the brake shoe.	01	35000.00
											CUT SECTION MODEL OF DISC BRAKE SYSTEM: (working):	The Model is made out of Original parts such as Two Brake disc, two Caliper assembly (one sectioned), two master cylinder (one sectioned) etc, the model is mounted on a sturdy iron frame and can be demonstrated by operating the lever provided.	01	15000.00
											CUT SECTION MODEL OF SINGLE PLATE COIL SPRING CLUTCH SYSTEM (WORKING):	This model is made out of original used parts such as Flywheel, Clutch plates, etc. to demonstrate the working of clutch assembly. By operating the pedal provided the model can be demonstrated. The entire model is mounted on a sturdy iron frame.	01	15000.00
											CUT SECTION MODEL OF DIAPHRAM CLUTCH SYSTEM (WORKING):	This model is made out of original parts such as Flywheel, Pressure Plate, Clutch plates, etc. to demonstrate the working of diaphragm clutch assembly. By operating the pedal provided the model can be demonstrated. The entire model is mounted on	01	15000.00
												a sturdy iron frame.		
											CUT SECTION MODEL OF COMPELETE FRONT SUSPENSION WITH LONGITUDINAL TORSION BAR..	This model is made out of original used parts, will be suitably sectioned And Arranged to demonstrate the internal construction details showing the minute information With Suspension System with longitudinal torsion bar arrangement, shock absorber, etc., and working of the same can be shown, the model will be suitably painted and The entire model is mounted on a sturdy iron frame.	01	20000.00
											CUT SECTION MODEL OF COMPELETE ONE SIDE MACPHERSON SUSPENSION STRUT WITH DRIVE SHAFT, DISK BRAKE.	This model is made out of original used parts, will be suitably sectioned And Arranged to demonstrate the internal construction details showing the minute information With Suspension Strut with spring and shock absorber, disc brake, calipers, drive shaft etc., and working of the same can be shown, the model will be suitably painted and The entire model is mounted on a sturdy iron frame.	01	25000.00
											CUT SECTION MODEL OF PUMPS.	This model is made out of original used parts, will be suitably sectioned to demonstrate the internal construction details showing the minute information, and working of the same, the model will be suitably painted and	01	15000.00
												mounted on a navopan wooden base. The various models of the Pump are 1) Fuel Pump diaphragm type 2) Oil Pump External 3) Oil Pump internal4) Vacuum Pump (Vane type) 5) Piston Pump (air Compressor) 6) Water pump 7) Rotary pump		
											MODEL OF HYDRAULIC BRAKING SYSTEM WITH VACCUM BOOSTER (TATA INDICA).	The model will be made out of Used TATA Indica brake aggregates which will be suitably sectioned, Left Front disc and Left rear drum will be made working, using necessary hydraulic connection from the Master cylinder, By operating the brake pedal connected to the Master cylinder through booster, the functioning of disc and drum brake can be demonstrated. All the aggregates will paint finished The entire setup will be mounted on a sturdy iron frame	01	20000.00

											CUT SECTION MODEL OF FIVE SPEED MANUAL TRANSMISSION (MARUTI 1000CC) (WORKING):	This model is made out of original full size used gearbox, suitably sectioned to show the gear mechanism of forward and reverse speeds. A Crank lever is provided to demonstrate the mechanism. Complete unit is suitably painted and mounted on a sturdy iron frame	01	25000.00
											CUTSECTION MODEL OF TURBOCHARGER :	This model is made out of full size original parts, suitably sectioned and to demonstrate the working of turbocharger is mounted on a suitable base.	01	25000.00
											CUT SECTION MODEL OF COMPELETE BOTH SIDE WITH DOUBLE WISHBONE SUSPENSION WITH DRIVE SHAFT.	This model is made out of original used parts, will be suitably sectioned And Arranged to demonstrate the internal construction details showing the minute information With Suspension Strut with spring and shock absorber, disc brake, calipers drive shaft etc., and working of the same can be shown, the model will be suitably painted and The entire model is mounted on a sturdy iron frame	01	25000.00
											CUT SECTION MODEL OF AIR CONDITIONING SYSTEM OF A CAR. (NON WORKING)	This model is made out of original used parts, will be suitably sectioned And Arranged to demonstrate the internal construction details showing the minute information such as AC compressor, condenser, radiator, its pipe lining, blower/fan assembly etc., the model will be suitably painted and The entire model is mounted on a sturdy iron frame	01	15000.00
TEQIP-II/CG/CG1G03/79	MECH MMM LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	635000.00	Shopping	DISPLACEMENT MEASURING TUTOR USING LVDT	LVDT sensor with necessary signal conditioning circuit Micrometer comparison	01	25000.00
												Scale Manual micrometer driven mechanism for displacement variation Digital Indicator-Least Count:-0.1 mm, Digit:- 3 ½, range-0 to 20 mm Powder coated enclosure		
											PRESSURE MEASUREMENT TUTOR USING PRESSURE TRANSDUCER	Pressure Sensor with necessary signal conditioning circuit (range-0 to 5 Kg / cm ²) Reference comparison pressure gauge with Digital Indicator, Least Count:- 0.1Kg/Cm ² , Digit:- 3 ½, Foot Pump for Pressure Variation Powder coated enclosure	01	30000.00
											Temperature measuring tutor using Thermocouple	Water Bath with heating arrangement Thermocouple with necessary Signal conditioning & control circuit Thermometer Digital Indicator Least Count:- 1o Digit:- 3 ½ Powder coated enclosure	01	20000.00
											TOOL MAKERS MICROSCOPE	Magnification 30 X standard Objective 2 X Eyepiece W F 15X with cross Field of View rectile Working Distance 80 mm Apprx Image Erect Observation	01	50000.00
												Monocular inclined at 30 deg Stand overall Large and heavy base Measuring stage 150 x 150 mm, Travel up to 25 mm in any direction having Least count 0.01 mm Eyepiece Protector Illumination 6V/ 20W halogen lamp and incident from two lamps with variable control on front panel		
											Strain Measurement Tutor using Strain Cantilever Beam	Cantilever Beam Capacity - 2 kg Material - Mild steel Indicator- Least Count :- 1 Micro Strain Digit:- 3 ½ weights - Max 2 Kg in steps of 100 gm	01	30000.00
											Torque measuring Tutor using Torque Transducre	Torque lever Length - 0.5 meter Digital Indicator Least Count:-0.1Kg-M Digit:- 3 ½ weights - Max 2 Kg in steps of 100 gm	01	25000.00
											Temperature Measuring Tutor using RTD Sensor	Water Bath with heating arrangement RTD with necessary Signal conditioning & control circuit Thermometer Powder coated enclosure	01	30000.00

											Temperature Measuring Tutor using Thermistor	Water Bath with heating arrangement Thermister with necessary Signal conditioning & control circuit Thermometer Powder coated enclosure	01	30000.00
											Rotameter Trainer Module	1)Sump Tank :Capacity - 150 lits(aprox) Material - M.S sheet with FRP lining to the inner side and powder coating to the outer side. 2) Measuring tank : (with piezometric tube) Material - MS Sheet with FRP lining to the inner side and powder coating to the outer side. 3) Mono-block Pump : 0.5 H.P with necessary piping and control valves. 4) Rotameter : Range - 250 -2500 LPH	01	10000.00
											Dead Weight Pressure Gage Tester	height: 39.5 cm (approximately). Oil required - SAE 10 or 20 or equivalent. Bench area required 40 * 90 cm(approximately). adapters: 3/8" &1/2" BSP. Pressure Range : 0.5 to 25 Kg/cm2 Least Count: 0.5 Kg/cm2	01	25000.00
											Set of M-81 Slip Gage	The blocks are made up of 81 blocks (plus two wear blocks) having dimensions as follows: 9 blocks with 0.0001- in increments from 0.1001 to 0.1009 inclusive, 49 blocks with 0.001-in increments from 0.101 to 0.149 inclusive, 4 blocks with 1-in. increments from 1 to 4 inclusive. 2 tungsten steel wear blocks, each 0.050 in thick. (Extra)	01	10000.00
											Profile Projector	Glass screen dia: 500 mm, inclination 8o Switches and controls shall be placed up-front for easy access. Projection lenses: 5x to 100x. Stage: Large size stage and rotating tables should be available for handling heavy specimens	01	150000.00
											Optical Comparator	Glass screen: diameter of 305mm and rotation 360 degrees. XY counter Movable head should allow mounting of larger stages - up to 200x150mm. Controls Panel	01	50000.00
											Electrical Comparator	Pressure Range: (0-600) bar Stability: 0.05% Full Scale Working Media: Transformer oil Overall Dimensions: 450mmx350mmx135mm Weight: 17.25KG	01	50000.00
											Optical Flats	Cylindrical pieces 25 to 300 mm in diameter with a thickness of about 1/6th of the diameter Material - transparent material,Flat working surface.	01	100000.00
TEQIP-II/CG/CG1G03/80	MECH TDS LAB	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	561000.00	Shopping				
											Model of Lancashire Boiler	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01	6000.00
											Model of Babcock Wilcox Boiler	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01	6000.00
											Model of Steam Turbine	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01	5000.00
											Model of Cochran Boiler	The models should be	01	12000.00

												mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..			
												Model of Locomotive Boiler	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01	8000.00
												Model of Reducing Valve	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01	3500.00
												Model of Steam Injector	The models should be mounted on suitable base. It should be large enough to be easily demonstrated	01	2500.00
													before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..		
												Model of Green Economizer	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01	9000.00
												Model of Steam Engine D Slide Valve	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01	6000.00
												Model of Spring Loaded Safety Vavle	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed	01	3000.00
													Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..		
												Model of Stop Valve Hopkinson Type	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01	5000.00
												Model of Blow off Cock	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01	3000.00
												Model of Feed Check Valve	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with	01	4000.00
													Detailed specification Exclusively for Educational purpose..		
												Model of Lever Safety Valve	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01	6000.00

											Model of Dead Weight Safety Valve	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01	3000.00
											Model of Pressure Gauge	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01	2000.00
											Model of High Steam & Low water Safety Valve	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01	5000.00
											Model of Fusible Plug	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01	3000.00
											Model of Antipriming Pipe	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01	2000.00
											Model of Superheater	The models should be mounted on suitable base. It should be large enough	01	5000.00
												to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..		
											Model of Cornish Boiler	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01	6000.00
											Model of Expansion Steam Trap Valve	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01	3000.00
											Model of Throttle Valve	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students.	01	3000.00
												Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..		
											Experimental Setup of Surface Steam Condenser	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01	150000.00
											Experimental Setup of Jet Condenser	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the Model with Detailed specification Exclusively for Educational purpose..	01	150000.00

											Experimental of Reciprocating Compressor	The models should be mounted on suitable base. It should be large enough to be easily demonstrated before the class of 30 students. Should have Printed Literature along with the Coloured diagram of the	01	150000.00
												Model with Detailed specification Exclusively for Educational purpose..		
TEQIP-II/CG/CG1G03/81	CHEMISTRY LAB 1	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2013	495000.00	Shopping	Digital BOD Incubator		01	100000.00
											Digital Spectrophotometer		01	325000.00
											COD Apparatus		01	70000.00
TEQIP-II/CG/CG1G03/84	CIVIL LAB 5	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2013	75000.00	Shopping	California Bearing Ratio Apparatus		01	75000.00
TEQIP-II/CG/CG1G03/85	MECH CIVIL WORK	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Civil Works	Refurbishment works	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	675000.00	Shopping	Fall ceiling works	ETE/ Different Labs	01	200000.00
											Repairing Painting and flooring	Repairing doors and windows painting and distempering of labs, flooring plastering and concreting for various jobs	01	100000.00
											Foundation of machines	foundation of lab equipment /Machines	01	200000.00
											Wiring and Electrification	Electrical wiring with new switch boards, power boards , Electrification of CSE, Civil, Mech.	01	100000.00
											Partitioning of lab and staff rooms	Partitioning CSE,CIVIL, EEE, ETE Lab, ETE, MECH.	01	75000.00
TEQIP-II/CG/CG1G03/86	ETE CIVIL WORKS	Equipment/ Instruments listed is necessary Equipment to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Civil Works	Refurbishment works	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	675000.00	Shopping	Repairing ,Painting & Flooring	Repairing-doors & windows painting & Distempering of labs, Flooring Plastering and concreting for various jobs	01	100000.00
											Foundation of Machines	foundation of lab equipment /Machines	01	200000.00
											Wiring and Electrification	Electrical wiring with new switch boards, power boards , Electrification of CSE, Civil, Mech.	01	100000.00
											Partitioning of lab and staff rooms	Partitioning CSE,CIVIL, EEE, ETE Lab, ETE, MECH.	01	75000.00
											Fall ceiling works	ETE/ Different Labs	01	200000.00
TEQIP-II/CG/CG1G03/87	EEE ADVANCE COMMUNICATION	Equipment/ Instruments listed is Necessary to perform the Experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	321000.00	Shopping	FREQUENCY DIVISION MULTIPLEXER/DEMULTIPLEXER	1.On Board AF Modulating signal generator and Main RF carrier signal generator. 2.On Board Sub- carrier signal generator and Pilot signal generator. 3.Audio input and transmitter amplifiers with required number of demodulators. 4.Test points to access signals at every stage of circuit operation. User manual with practical & circuit diagram and connecting patch chord.	06	16000.00
											DELTA MODULATION AND DEMODULATION	1.Onboard sin wave and sampling signals.	05	15000.00
												2.Voice link for above modulation technique using external audio input and output. 3.Low pass butter worth filter and on board generators for different frequency. 4.Test points should be provided on board to observe various intermediate signals. User manual with practical & circuit diagram and connecting patch chord.		

											PAM/PPM/PWM MODULATION & DEMODULATION TECHNICIS	1.PAM-PPM-PWM Modulation & Demodulation techniques, using Natural & Flat-top sampling. 2.Analog Sample, Sample & Hold and Flat-top outputs. 3.able 4 different sampling pulse frequencies on board. 4.Voice Communication using dynamic microphone & speaker. 5.On-board Filter and AC Amplifier. 6.Test points should be provided on board to observe various intermediate signals. User manual with practical & circuit diagram and connecting patch chord.	06	25000.00
TEQIP-II/CG/CG1G03/104	INST FURNITURE	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	3926316.00	NCB				
											LECTURE STAND	75X45X135CM WITH ONE SELF 3 SIDE SUNMICA COVERD	02	6955.00
											WRITING CHAIR	WOODEN WITH ONE WIDE ARM IN RIGTH SIDE	85	1925.00
											LAB TABLE	SIZE:- 1825X750X760 MM	54	4414.00
											COMPUTER TABLE	SIZE:- 910X610X728 MM	209	1700.00
											OFFICE TABLE	SIZE:- 120X75X75 CM	53	5760.00
											EXECUTIVE REVOLVING CHAIR	SUPERIO EXECUTIVE REVOLVING CHAIR WITH STEEL BASE, 5 LEGS, HIGH BACK CUSHIONED WITH ARM	39	6900.00
											STUDENT STOOL	WOODEN STOOL SIZE 35X35X55 CM	320	965.00
											ANGLE IRON RAKE	SIZE :-1980X900X380 MM	90	1967.00
											REVOLVING CUSHION BACK CHAIR	COMPUTER CHAIR REVOLVING WIHT ARMS CUSHION SEAT AND MEDIUM BACK	159	3420.00
											CUSHION BACK CHAIR WITH HANDLE	COMPUTER CHAIR WITH HANDLES	70	1750.00
											CABINET ALMIRAH	SIZE :- 1980X915X480 MM	31	4600.00
											OFFICE CHAIR	CUSHION SEAT AND BACK WITH ARM, STANDARD SIZE SUPERIOR QUALITY	135	3045.00
											EXECUTIVE TABLE	SIZE:-1830X1200X750 MM	18	5210.00
											STEEL ALMIRAH BIG SIZE	SIZE:- 78"X36"X19"	40	9250.00
											STEEL ALMIRAH SMALL SIZE	SIZE :- 50"X30"X17"	06	5400.00
											REVOLVING STOOL	SIZE:- 457X305X305 MM	20	620.00
											STOOL	WOODEN STOOL, SIZE:- 30X30X45 CM, WITH SUNMICA TOP	40	800.00
											SOFA SET	3 SEAT + 2 SIDE CHAIR, WOODEN FRAME WITH MOULDED GRILL ARMS/	04	21500.00
												LEGS, HD FOAM, CUSHION SEAT AND BACK COVERED WITH VALVET CLOTH		
											CENTER TABLE	SIZE:- 120X60X45 CM, WITH SUNMICA TOP WOODEN FRAME	04	3120.00
											FILE CABINET	4 DRAWERS, MADE OF 22 G SHEET, SIZE 55"X28"X19"	01	11900.00
											INTERACTIVE BOARD	CERAMIC STEEL WRITING BOARD WITH BUILT IN INTERACTIVE FEATURES	02	100000.00
											NOTICE BOARD	WITH JALLI AND DOOR SHUTTER, SIZE 120X 75X 10 CM	06	4000.00
TEQIP-II/CG/CG1G03/105	INST_AC	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	3360000.00	NCB	AIR CONDITIONER (1.5 TON)	5 STAR 1.5 TON TYPE: SPLIT WALL MOUNTED	51	40000.00
											AIR CONDITIONER (2.0 TON)	5 STAR 1.5 TON TYPE: SPLIT WALL MOUNTED	22	60000.00
TEQIP-II/CG/CG1G03/106	INST SOFTWARE	Equipment/ Instruments listed is necessary to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	5090000.00	NCB	digital language lab PC Based software	it should have instructor module ,student module ,lesson studio, as well as integrated english language .Learning material & excercises.The software should run in the following OS and Hardware.OS -window 7,XP,2003,vista.Hardware- Intel pentium 4 configuration	01	300000.00
												(1+33		
											network simulator	Net Sim Simulator for Win XP,windows7	01	400000.00

											C-compiler	Intel C-Compiler,32 & 64 Bit Processor with full screen version with 30 user.	02	600000.00
											server 2008 OS	WINDOWS server 2008 enterprize edition 32 Bit & 64 Bit processor with 100 CAL(client access license)	01	200000.00
											Simulation software for DSP lab	teaching tools for class teaching programs.student learning tools for their individual self study corporate & industrial traing program LTI,DTFT,DFT,FFT	01	200000.00
											antivirus	antivirus (latest version),window 7,xp,vista 32 &64 Bit supported,(1 User 1 Year Licenced)	200	450.00
											C/C++	turbo /Borland c/c++ ,window7 /xp,32 & 64 Bit supported with full screen version.(for 30 user)	05	30000.00
											Mat Lab	DSP tool,latest version window7 operating Based (for 10user with tool)	02	300000.00
											Simulation software for VLSI	VLSI Lab S/w C# XLINK Mat Lab ETC window7 OS,(for 40 user)	01	500000.00
											SCADA	SCADA system s/w used for power system automation.1-analog Real time-8 analog bargraph pen.2- digital real time-32 digital status pen screen.(for single user)	01	50000.00
											power system simulation	software should have provision to calculate transmission line parameters & to show operation of nator(for single user),window7/vista/xp 32 &64 bit supported	01	50000.00
											8085 simulator S/W	8085 simulation s/w comptible with window 7,vista xp,32 & 64 Bit supported(for 30 User)	01	100000.00
											8086 simulator S/W	8086 simulation s/w comptible with window 7,vista ,xp,32 & 64 Bit supported(for 30 User)	01	100000.00
											8051 simulator S/w	8051 simulation s/w comptible with window 7,vista xp,32 & 64 Bit supported(for 30 User)	01	100000.00
											air conditioning system simulator software	S/W should provides testing and troubleshooting of the devices listed below :-1. compressor -start relay. 2.condenser coil - Indoor fan relay. 3.evaporator coil- Crankcase heater. 4.TX valve (TXV/tev)- compressor run capacitor. 5.	01	100000.00
												Capillary tube- compressor start capacitor. 6. Filter drier - Fan motor capacitor. 7. Air Filter - room thermostat. 8. Outdoor Fan motor - Low pressure Switch. 9. indoor Fan Moter- High Pressure Switch. 10. tranformer - Fan Switch. 11 conactor - Circuit Breaker. and should simulate the performance of AC with different Refrigerent(Min 3). It should run in:- 1. Pentium ,Core, or equivalent processor(32 or 64 Bit).2Minimum RAM required by operating system. 3.Window 95,98,2000,2003,2008,NT, Me,XP,Vista or Windows 7 (32 or 64 Bit) . 4.VGA/SVGA display. 5.Hard drive, 18MB avilable disk Space. 6. pointing device ,such as Window-compatible mouse.'Network version,30 User (seat) license'		
											Autocad revit architecture suit 2010 or latest version	Acedemic version 40 user license pac as per manufacturer of the software.	01	300000.00
											Auto desk maya 2011	40 user license pac as per manufacturer of the software	01	400000.00
											staad pro.	latest version 40 user license pac as per manufacturer of the software	01	250000.00
TEQIP-II/CG/CG1G03/107	INST COMPUTER LAB	Equipment/ Instruments listed is necessaEquipment ry to perform the experiments in laboratory. Thus the students will be able to understand the subject in the true sense.	Goods	Equipment	Infrastructure Improvement for teaching, training and learning facilities	No	No	01/08/2012	11773000.00	NCB	Desktop Computer	Desktop Computer with preloaded Operating System AMD phenon dual core, operating system microsoft windows 7	132	295000.00
											Desktop Computer INTEL Core	Intel cpre i7 with trusted platform module 1.2, Operating system: SUSE Linex	87	39000.00
											Laptop	Computer note book intel core i-5 with red HAT linux	10	37000.00
											Computer Note Book	computer note book intel core i-5 with window 7 professional	07	44000.00

											Thinkpad L420Computer Note Book	computer note book intel core i-7 with window 7 professional	06	61000.00
											LCD Projector	Resolution: 1024 X 768 X XGA,ANSI Lumen: 5000	08	105000.00
											Multimedia Projector	Resolution: 1024 X 768 X XGA,ANSI Lumen:	03	73000.00
											Multimedia LCD Projector	Resolution: 1024 X 768 X XGA,ANSI Lumen: 2000	01	23000.00
											UPS 5 KVA ON LINE	with isolation transformer suitable for single phase AC input & single phase AC output, Floor MOUNTed Type	16	79000.00
												indicative back-up time: 60 Minutes		
											UPS 1 KVA ON LINE	with isolation transformer suitable for single phase AC input & single phase AC output, Floor MOUNTed Type indicative back-up time: 60 Minutes	30	6000.00
											UPS .5 KVA OFF LINE	with isolation transformer suitable for single phase AC input & single phase AC output, Floor MOUNTed Type indicative back-up time: 30 Minutes	75	4200.00
											COLOR LASER PRINTER	Resolution(in dpi): colour 600 X 600, paper size: A4, Print speed in PPM(A4 size): 30 BW and C, Port 1 USB, Memory (in MB): 16, Network card 10/100: YES, Duplexing: YES	01	50000.00
											B&W LASER PRINTER	print speed 22 ppm(A4), Resolution 2400 X 600 dpi , RAM 16 MB, USB 2.0 and 10/100 Ethernet card-	17	8000.00
											LASER PRINTER	print speed 22 ppm(A4), Resolution 2400 X 600 dpi , RAM 32 MB, USB 2.0	11	15000.00
											Photocopier	copy speed 18 CPM, Resolution 600dpi, reduction and enlargement, copy mode, book copy, image overlay, memory 16 MB RAM, automatic image rotation, automatic paper sensing, 250 sheets paper from drawer and 100 sheets bypass with printer/ scanner	05	45000.00
											SCANNER	it should scan A4 & legal size paper	05	5000.00