

Tender No: 1

MODEL POLYTECHNIC COLLEGE KARUNAGAPPALLY

Ph: 0476-2623597

TENDER NOTICE

Superscription.-Tender No :- P/550(20)/2014-15 for Purchasing of Demonstration and Trainer Kit	
<i>Due date and time for receipt of tender.</i>	01.09.2014 2 PM
<i>Date and time for opening of tender.</i>	02.09.2014 3 PM
<i>Date up to which the rates are to be firm.</i>	6 Months
<i>Price of tender form.</i>	Rs.400+ 5% VAT
<i>Price of duplicate copy-</i>	50% of cost of the original copy.
<i>Address of officer from whom tender forms are to be obtained and to whom tenders are to be sent:</i>	The Principal, Model Polytechnic, Karunagappally, Edakkulangara PO, Kerala, PIN-690562

Name of office: Model Polytechnic,
Karunagappally, Edakkulangara PO,
Kerala, PIN-690562

(Name and designation of
purchasing officer)

Station and date: Karunagappally, 29.07.2014

SCHEDULE OF MATERIALS

Sl. No	Specification	Quantity	Unit	Remarks
1	2	3	4	5
1	Mobile Phone Tool kit Set	10	Nos	
2	Color TV Trainer Standard : CCIR-B-PAL-G, 625 Lines 2 - 4 VHP I (VL), 5 - 12 VHP III (VH) 12 - 100 : BAND IV & V, else : S BAND & HYPER BAND Picture Tube Size : 36 cms. Diagonal RF Input Impedance : 75 W (Ohm) Circuit Blocks : System Control Circuit, Video IF, Sound Section, Tuner Section, Horizontal Oscillator, Horizontal Output, Vertical Oscillator, Vertical output, Video & Chroma Section, Power Supply, AV sections ON Screen Display to set : Volume, Brightness, Contrast, Colour, Channel & Band Selection, Tuning Panel Control : ON-OFF switch, stand by Menu Vol +/- , Prog +/- Remote Control Function : Volume, Brightness, Stand by, Colour, Contrast, Channel Selection, Audio Mute, AV Mode, Zoom, Swap, Scan, Child Lock Mains Supply : 220/110, 50 Hz . 60 Hz on request I.F. Frequency : Video - 38.9 MHz, Audio - 33.4 MHz	1	Nos	

3	PCM Generation and demodulation using CODEC	1	Nos	
4	GSM Trainer kit	1	Nos	
5	Data Communication Trainer Kit	1	Nos	
6	Modem Demonstration Kit	1	Nos	
7	OFC demonstration kit Frequency range : 1Hz ~ 10Hz, 10Hz ~ 100Hz, 100Hz ~ 1 K z,1KHz ~ 10 KHz Amplitude : 0 ~ 4Vpp (except square) Reference pulse : 660 KHz, 3.2V Fiber optic cable Type : Plastic optical cable, step index, multimode Core refractive index-n1 : 1.492 Fiber diameter : 1000 microns Outer diameter : 2.2 mm Fiber lengths : 15 cm, 1 meter and 20 meter Power supply : +5V, GND, NC, +9V, -9V	2	Nos	

Warranty : 1 Year

Whether samples essential: Demonstration needed

Period within which goods should be delivered: 21 Days

Rates should be quoted for delivery for Model Polytechnic Collage Karunagappally, Kollam
at Departmental Stores

Other special conditions:

Tender No: 2

MODEL POLYTECHNIC COLLEGE KARUNAGAPPALLY

Ph: 0476-2623597

<i>Superscription.-Tender No :- P/537(7)/2014-15 for Purchasing of Microcontroller Kit</i>	
<i>Due date and time for receipt of tender.</i>	01.09.2014 2 PM
<i>Date and time for opening of tender.</i>	02.09.2014 3 PM
<i>Date up to which the rates are to be firm.</i>	6 Months
<i>Price of tender form.</i>	Rs.700 + 5% VAT
<i>Price of duplicate copy-</i>	50% of cost of the original copy
<i>Address of officer from whom tender forms are to be obtained and to whom tenders are to be sent:</i>	The Principal, Model Polytechnic, Karunagappally, Edakkulangara PO, Kerala, PIN-690562

RE-TENDER NOTICE

Name of office: Model Polytechnic,
Karunagappally, Edakkulangara PO,
Kerala, PIN-690562

(Name and designation of
purchasing officer)

Station and date: Karunagappally, 29.09.2014

SCHEDULE OF MATERIALS

Sl. No	Specification	Quantity	Unit	Remarks
1	2	3	4	5
1	8051 Microcontroller Kit with Power Supply Specification: 8051/89C52 CPU operating @ 11.0592 MHz 32K user RAM using 62256 with Battery Backup with expansion up to 64K. 16K bytes of powerful monitor EPROM. 48 I/O lines using 8255 PPI. Three Channel Timer/Counter using 8253. 20x2 Alphanumeric LCD Display with 101 ASCII Keyboard. External interrupts INT0 & INT1 are available. RS-232C using RX/TX of 8051 Onboard Single Line Assembler / Dis assembler. ASCII Keyboard and Serial modes of operation. Powerful commands like Examine/ Edit Memory, Examine/ edit Register, Single Stepping, Execution, Break point, etc...	40	No's	

	Facility for Downloading/uploading files From/to PC			
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Guaranty /Warranty : 1 Year

Whether samples essential: Demonstration needed

Period within which goods should be delivered: 1 Week

Rates should be quoted for delivery for Model Polytechnic Collage Karunagappally, Kollam

At Departmental Stores

Other special conditions:

Tender No:3

MODEL POLYTECHNIC COLLEGE KARUNAGAPPALLY

<i>Superscription.-Tender No :- P/566/2014-15 for Purchasing of PCB FABRICATION UNIT</i>	
<i>Due date and time for receipt of tender.</i>	01.09.2014 2 PM
<i>Date and time for opening of tender.</i>	02.09.2014 3 PM
<i>Date up to which the rates are to be firm.</i>	6 Months
<i>Price of tender form.</i>	Rs.400 + 5% VAT
<i>Price of duplicate copy-</i>	50% of cost of the original copy.
<i>Address of officer from whom tender forms are to be obtained and to whom tenders are to be sent:</i>	The Principal, Model Polytechnic, Karunagappally, Edakkulangara PO, Kerala, PIN-690562

TENDER NOTICE

Name of office: Model Polytechnic,
Karunagappally, Edakkulangara PO,
Kerala, PIN-690562

(Name and designation of
purchasing officer)

Station and date: Karunagappally, 29.07.2014

Sl. No	Specification	Qty	Unit	Remarks
1	PCB DESIGN & FABRICATION UNIT			
a	PCB Artwork Film Maker: Proto - Contact The Proto-Contact is a tabletop unit which serves as a negative making contact printer as well as an illuminated artwork taping and Inspection of Films and Negatives. The user can directly make Negatives from 1X scale artworks. It has a working area of 300mm*250mm(12"*10") with diffused light and a push button operated exposure.. The overall dimensions are :380mm*230mm*330mm, Electrical power : 230V/50Hz,5A Socket required	1		
b	PCB Curing Machine (Oven): protocure Table unit for curing of liquid photoresist, pre-heating substrates etc. A timer controlled heating system allows fast and efficient curing. Complete metal construction. Max Size : 250mm*300mm(10"*12") Heating : Heaters with thermostat controls Fan : For air circulation Timer : Provided Shelf : Included Electrical Power : 230/50 Hz. 5A Socket required	1		

c	<p>Double sided U. V Exposure unit (Proto - UV)</p> <p>A tabletop double sided exposing unit for high resolution exposure of PCBs.</p> <p>Maximum Size : 300mm*255mm(12"*10") U.V Tub : 2*4(8Watts) actinic tubes with single/double side option</p> <p>Chokes : Electronic Type</p> <p>Timer : 0-10 minutes</p> <p>Electrical Power : 230v/50Hz, 5A Socket required</p>	1	
d	<p>PCB Shearing Machine: Slash - 300</p> <p>Benchtop Guillotine type shearing machine to cut PCBs and Laminates . Compact structure with central handle allows ease of cutting width : 300mm(12")</p> <p>Size :400mm*350mm</p>	1	
e	<p>PCB Drilling Machine : Protodrill - 3000</p> <p>A compact tabletop High speed PCB drilling machine with quick change chuck</p> <ol style="list-style-type: none"> 1. Drill holding by precision chuck with lapped jaws 2. Mains operated DC motor - Direct drive (no belt and pulley) 3. step speed Control illumination of work area <p>Technical Data</p> <p>Motor Speed :12000-20000 R.P.M</p> <p>Range :0.6 TO 3.0mm</p> <p>Base : Metal Working Area :280mm*170mm</p>	1	
f	<p>ROLLER Tinning Machine :RTM 10</p> <p>Instead of Lacquer Coating unit .The RTM 10 is a tabletop unit for Tin/Solder coating of PCBs.</p> <p>Maximum PCB width : 250mm(10")</p> <p>Maximum PCB Thickness :6mm</p> <p>Solder Bath Capacity :5Kgs</p> <p>.Heaters : 2*500Watts</p> <p>Rollers : Silicon Coated Roller</p> <p>Revolution : Gear Flywheel Drive</p> <p>Bearings : Teflon</p>	1	
g	<p>Etching Machine: Proto - Etch</p> <p>Useful etching area :250mm*300mm(10"*12")</p> <p>Tank Capacity : 20 Litres. Included a heater and air flow compressor. All construction materials are corrosion free.</p> <p>Heater : Titanium - non corrosive with thermostat</p> <p>control Timer : 0-40 minutes</p> <p>Electrical power : 230V/50Hz,5A Socket required</p>	1	

Warranty: one year

whether samples essential: Demonstration needed

Period within which goods should be delivered: 21 Days

Rates should be quoted for delivery for Model Polytechnic Collage Karunagappally, Kollam
at Departmental Stores

Other special conditions:

Tender No:4

MODEL POLYTECHNIC COLLEGE KARUNAGAPPALLY

Ph: 0476-2623597

TENDER NOTICE

<i>Superscription.-Tender No :- P/567/2014-15 for Purchasing of VLSI Lab Equipments</i>	
<i>Due date and time for receipt of tender.</i>	01.09.2014 2 PM
<i>Date and time for opening of tender.</i>	02.09.2014 3 PM
<i>Date up to which the rates are to be firm.</i>	6 Months
<i>Price of tender form.</i>	Rs.400 + 5% VAT
<i>Price of duplicate copy-</i>	50% of cost of the original copy.
<i>Address of officer from whom tender forms are to be obtained and to whom tenders are to be sent:</i>	The Principal, Model Polytechnic, Karunagappally, Edakkulangara PO, Kerala, PIN-690562

Name of office: Model Polytechnic,
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(Name and designation of
purchasing officer)

Station and date: Karunagappally, 29.07.2014

SCHEDULE OF MATERIALS

SL. NO	Specification	Qty	Unit	Remarks
1	FPGA Trainer kit Specification : • Xilinx FPGA Board : Xilinx: XC3S1400AN-4FGG676C Spartan 3AN FPGA • Integrated color TFT LCD panel (240x320) with touch screen. stereo audio capabilities including Line in/out/headphones, audio CODEC with I2S-compatible interface, analog mixer, audio power amplifier and high-quality speakers. • Stepper Motor Interface and should provide Motor • DC Motor Module with 2 motors Drive • Traffic Light Controller with 29 LEDs including Pedestrian control • Seven Segment display, 4 displays with Decimal Point • Variety of standard communications interfaces: RS-232, RS-485, PS/2, 10/100 Fast Ethernet, USB 2.0, MIDI ,Dual SD card readers – for use by user FPGA and Host Controller respectively. • 32 Bit LED Module • SPI Real-Time Clock with 3V battery backup. 5V DC power connector with power switch, plus test points for all major supplies on the board (and GND). • High-speed PC interconnection through USB 2.0 allows for fast downloading and debugging.	2	Nos	

<p>2</p>	<p>Software for FPGA Design, spice Simulation & PCB Design (10User License) Specifications:</p> <ul style="list-style-type: none"> • Software should be able to perform FPGA Design, embedded system design, spice Simulation and complete PCB Design from same GUI and should support FPGA,CPLD Boards & ARM microcontroller boards • Tool should be a vendor independent, should be able to work with Xilinx and Altera devices • VHDL/Verilog simulation engine, integrated debugger and waveform viewer with third-party support for ModelSim and Active-HDL. FPGA Flow should support C to FPGA Compiling, Verilog, VHDL,C++ & Schematic • 32-bit soft processors for use in FPGA design: TSK3000A, Xilinx MicroBlaze, Altera Nios II, ARM7 and PowerPC. Also support for a number of legacy 8-bit Microcontrollers (MCS51 like devices) • Custom FPGA Logic Development in C, OpenBus, Schematic, VHDL and Verilog design synthesis, Custom Wishbone Interface Component. • Pre-synthesized FPGA-modules for Custom Instruments: Terminal Emulator, Digital I/O, Crosspoint Switch, Logic Analyzer, Frequency Generator, Frequency Counter, Field Dashboard for remote access etc. • Free IPs for USB 2.0, Ethernet 10/100, Video Capturing, Audio Streaming ,Touch Screen Controller, SD Card Controller, JPEG Decoder, Infrared, GPS NMEA, GSM/GPRS, MP3 Decoder etc. • Import/Export Support of designs and library data created in OrCAD, Allegro, PADS, Cadstar, P-CAD, CircuitMaker, Protel,And cross probing between Schematic and PCB • Tool should support Online Collaborative PCB Design • Schematic – Soft Design Editing All schematic and schematic library editing capabilities (except in PCB Projects and Free Documents), netlist generation, • PCB- Board Definition & Rules Place/edit objects on mechanical layers, design rules for high-speed design, user definable layer stack, design transfer from schematic, position components, real-time manufacturing rule checking. • Layout Interactive routing (Push and Shove, Hugging and Auto-Complete modes), differential pairs, interactive/auto placement, pin/part swapping, obstacle avoidance during drag operations. • Interactive Routing Import CAM and mechanical files, panelize, NC route definition, DRC, export CAM and mechanical files for Autorouting PCB files. • CAM File Importer (Gerber, ODB++) - Import CAM and mechanical files. • Manufacturing File Outputs: Multiple outputs into a single media Publish to PDF, print and generate Gerber, NC Drill, ODB++ etc.. • Simulation – Mixed Signal SPICE 3F5/XSPICE mixed-signal circuit simulation (with PSpice compatibility). • 3D Visualization to give realistic and rendered on-the-fly view of the board, includes MCAD-ECAD support with direct linking for STEP models and real-time clearance checking, view configurations for both 2D and 3D, orthographic projection, texture mapping of 2D and 3D PCB models • Library Management Unified library management based on a single data store for all component models and linked data such as 3D models, data sheets and Supplier links. Single point of contact for version control and external project management systems 	<p>1</p>	<p>Nos</p>	
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Warranty: one year

whether samples essential: Demonstration needed

Period within which goods should be delivered: 21 Days

Rates should be quoted for delivery for Model Polytechnic Collage Karunagappally, Kollam
at Departmental Stores

Other special conditions:

Tender No:5

MODEL POLYTECHNIC COLLEGE KARUNAGAPPALLY
Ph: 0476-2623597

<i>Superscription.-Tender No :- P/571/2014-15 for Purchasing Of Duplicator</i>	
<i>Due date and time for receipt of tender.</i>	01.09.2014 2 PM
<i>Date and time for opening of tender.</i>	02.09.2014 3 PM
<i>Date up to which the rates are to be firm.</i>	6 Months
<i>Price of tender form.</i>	Rs.400 + 5% VAT
<i>Price of duplicate copy-</i>	50% of cost of the original copy.
<i>Address of officer from whom tender forms are to be obtained and to whom tenders are to be sent:</i>	The Principal, Model Polytechnic, Karunagappally, Edakkulangara PO, Kerala, PIN-690562

TENDER NOTICE

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purchasing officer)

Station and date: Karunagappally, 29.07.2014

SCHEDULE OF MATERIALS

Sl. No	Specification	Quantity	Unit	Remarks
1	2	3	4	7
1	CopyPrinter / Digital Duplicator GENERAL Type: Digital, desktop Printing process: Fully-automatic digital process Originals: Sheet Original size: Minimum: 90 x 140 mm Maximum: 275 x 395 mm Print paper size: Minimum: 90 x 140 mm Maximum: 275 x 395 mm Print paper weight: 35.0-127.9 g/m Print area: Maximum 250 x 355 mm Print speed: 60 - 90 sheets per minute (2 steps) First print speed: Less than 40 seconds	1	Nos	

	Resolution: 300 x 300 dpi Image modes: Letter mode, Photo mode, Photo/Letter mode Image position: Vertical: ± 10 mm Horizontal: ± 10 mm Reproduction ratios: Pre-set enlargement: 115, 122, 141% Pre-set reduction: 71, 82, 87, 93% Colour printing: By replacing colour drum Paper feed/ delivery table capacity: 500 sheets (80 g/m) Power source: 220-240 V, 50 - 60 Hz Power consumption: Maximum: Master making: less than 175 W Printing: Less than 175 W (at 90 sheets per minute) Standby: 35 W			
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Warranty : 1 Year

Whether samples essential: Demonstration needed

Period within which goods should be delivered: 21 Days

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at Departmental Stores

Other special conditions:

Tender No: 6

MODEL POLYTECHNIC COLLEGE KARUNAGAPPALLY
Ph: 0476-2623597

<i>Superscription.-Tender No :- P/572/2014-15 for Purchasing of Smart Classroom</i>	
<i>Due date and time for receipt of tender.</i>	01.09.2014 2 PM
<i>Date and time for opening of tender.</i>	02.09.2014 3 PM
<i>Date up to which the rates are to be firm.</i>	6 Months
<i>Price of tender form.</i>	Rs.400+ 5% VAT
<i>Price of duplicate copy-</i>	50% of cost of the original copy.
<i>Address of officer from whom tender forms are to be obtained and to whom tenders are to be sent:</i>	The Principal, Model Polytechnic, Karunagappally, Edakkulangara PO, Kerala, PIN-690562

TENDER NOTICE

Name of office: Model Polytechnic,
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(Name and designation of
purchasing officer)

Station and date: Karunagappally, 29.07.2014

SCHEDULE OF MATERIALS

Sl. No	Specification	Quantity	Unit	Remarks
1	2	3	4	5
1	Active Speakers Classroom Active Speaker Product Type 2.0 channel Speaker system Output 30W + 30W (RMS) Speaker Unit Tweeter - 1.5", Woofer-6.5" Impedence 4 ohms Frequency response 80Hz ~ `8Khz Power supply 230V/ 50 Hz Unit Dimension 208 X197 X 290 mm Net weight (speakers Only) 7.7 Kgs/ 16.97 lbs Net Weight (Speakers + Cable) 8.1 Kgs/ 17.87 Lbs Gross Weight 11.1 Kgs/ 24.47 lbs Controls Volume, trebble, Bass, power ON/ OFF Interface	1	Nos	

	Input Ports Output Port Accessories Power Cable Audio cable Speaker to Speaker Cable Wall MountSpeakers' Brackets	Left/Right Audio X 2 9RCA) Mini JackAudio X 2(3.5mm Audio jack) Left Speaker (RCA) 10 meters (1 Pcs) 10 meters (1 Pcs) 10 meters (1 Pcs) 1 Pair			
2	INTERACTIVE CLASS ROOM Technology Colour Light Output White Light Output Contrast Ratio Resolution Screen Size (Projection Distance) Interactive Featutures with IR Technology Expandable Wall Mount Kit Keystone Correction Input Terminals VGA Composite (RCA) S Video Mic HDMI USB Type A & B Network Interface (LAN) network Interface (Wireless) Control Interface - RS 232 Output Terminals Monitor Out (VGA) Sound Output (Inbuilt)	3 LCD 2600 lm or above 2600 lm or above 3000 : 1 or better XGA (1024 x 768) 80" @ 22.2 cm or shorter Inbuilt Required Vertical/Horizontal 2 nos Required Required Inbuilt Inbuilt Required Inbuilt Required Required Required 16 w or better	1	Nos	
	Visualizer / Document Camera Pick-Up Device Effective Pixels Frame Rate W/PC Illumination System	1/4" CMOS Sensor 5M pixels MAX 30fps White LEDx2	1	Nos	

3	Zoom Freeze/Auto Focus/LED Split Screen/Slideshow Video Capture Digital Scroll PAN/TILT Umage Rotation Vertical/Horizontal Internal Memory SD Card Sensor Input Output	10 times (including loss - less zoom) Availabale Availabale Availabale Availabale Yes/1GB SD Compatibility CMOS VGA,Built-in Mic VGA,USB-B, Composite Video			
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Warranty : 1 Year

Whether samples essential: Demonstration needed

Period within which goods should be delivered: 21 Days

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Other special conditions: