

**INVITATION FOR QUOTATIONS FOR SUPPLY OF
GOODS UNDER SHOPPING PROCEDURES**

Government of India has received a credit from the International Development Association (IDA) in various currencies towards the cost of the TEQIP-II Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued. The contract shall be for the full quantity as described below.

All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price. The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account. The Prices should be quoted in Indian Rupees only. The last date of submission of quotation is **5th June, 2012**. The quotation shall remain valid for a period not less than 90 days after the deadline date specified for submission. The submission of the quotation should be in the format provided below.

Department	Package No.	Equipment Name	Specification	Quantity	Contact Person
Mining Engineering	115	Rock Surface Profiler	<ul style="list-style-type: none">• Maximum Sample Size: 150mm × 150mm × 120 mm (LxBxH)• Sample weight : 5 KG (max)• Resolution: user selectable up to 0.1 mm• Connectivity : 1 USB and 1 serial port• Power Supply: 230 V AC• Output: Data file (.csv format) and 3-D graphical representation of the surface. <p>Technical Specification: Motorised (X) axis: 150 mm scan length (for sample Platform movement)</p>	1	Prof. Manoj Kumar Mishra, MN Ph.(0661)2462602 E-mail: mkmishra@nitrrkl.ac.in

			<p>Guides: Double Linear Motion Guides Ball Screw of 2 m pitch Maximum load: 5 kg Motorised (Y) axis: 150 mm scan length (for laser Sensor movement) Guides: Single Linear Motion Guide Ball Screw of 2mm pitch Maximum load : 0.5 kg Laser Sensor Range: 50mm Standoff: 42 ,, Laser Spot Sixe: 50 to 220 µm Resolution: up to 15 µm Power supply: 230 volts AC, 50Hz</p>		
Mining Engineering	114	Digital Bomb Calorimeter	<ul style="list-style-type: none"> • An Automatic Isoperibol Calorimeter having memory capacity upto 1000 Tests with capability for rapid testing with good repeatability. • A modern operating system with communication and file management. • Special communication ports for reporting to a printer, receiving sample weights from analytical balances and bi directional communications with a laboratory computer, via an Ethernet connection to transfer the reports from calorimeter. • Removable compact flash memory care for simple program updates 	1	<p>Prof. H.B. Sahu, MN Ph. (0661)2462606 Email: hbsahu@nitrrkl.ac.in</p>

			<ul style="list-style-type: none"> • Calorimeter operation: Standardization and determination modes. • Facility for testing samples having calorific value from 25 to 12000 Calories / • Corrections of acid, Fuse wire, Sulfur, Moisture, Ash and Hydrogen, Spiking can be made based on as per customer choice. • Dynamic and Equilibrium test modes • Program information and Control: User default setting protection facility. • Should be as per the approved by ASTM D24 ASTM D4809, ASTM D5468, ASTM D5865, ISO 1928, BS1016, Din 51900 standards. • Precision / Repeatability (%RSD) : 0.10% • Temperature Resolution : 0.0001°C • Bomb Type : Removable Bomb & Bucket • Oxygen filling: Automatic with one switch control. 		
Mining Engineering	112	Infrared Analyzer	<p>NDIR Portable Coal Gas Analyzer</p> <p>CH₄ : 100% (NDIR)</p>	1	<p>Prof. D.P. Tripathy, MN Ph. (0661)2462608 E-mail: dptripathy@nitrrkl.ac.in</p>

			CO ₂ : 100% (NDIR) CO : 100% (NDIR) O ₂ : 25% (ECD)		
Electrical Engineering	87	DTC Vector Control induction.	<p>IIPM Based Power supply (3 phase): 1200V, 25A, 3ϕ Squirrel cage induction motor (1 HP) ; DTC & Vector control program: TMS320LF2407A DSP Based controller.</p> <p><u>DSP</u> TMS320LF2407A DSP processor Maximum operating frequency 40MHz DSP chips embedded SRAM word 2.5K DSP chips embedded 32K word FLASH 32k \times 16-bit expansion of RAM, 32k \times 16-bit data RAM LED display Procedures, data, IO can independently addressable 64k I/O input-output module four buttons control LED RS232 communications interface circuits 4 way 8 serial D/A output A/D conversion module 2, 10 bit A/ D CAN module PWM control module <u>DSP Development System:</u> USB2.0 full use of standard computer interface connector Completely plug-and-play</p>	1	Prof. A.K. Panda, EE Ph. (0661)2462407 E-mail akpanda@nitrkl.ac.in

			<p>Transmission speed of up to 480 Mbps Compatible with USB1.1 agreement 14 Pin JTAG simulation interface. Supports Windows98 / NT/2000/XP operating system. Central Integrated Development Supports C language and assembly language Implementation of the Flash F28x/F240x/F24x/F20x. Code Composer Studio Ver.3.3</p> <p><u>Signal Section</u> Voltages in 3 phases Current in 3 phases DC link Current DC Bus Voltage RPM</p> <p><u>IIPM Based Three Phase Inverter</u> IGBT, 7 PACK MOD, 1200V, 25A Transistor Polarity: N Channel DC Collector Current: 25A Built - in over voltage, under voltage, over current & over Temperature protection</p> <p><u>Single Phase 230VAC in 3 phase out</u></p> <p><u>Motor & Load Unit with speed sensor</u> 1 HP THREE PHASE AC MOTOR SPRING BALANCE LOAD SET UP Encoder QEP 512/1024 ppr.</p> <p><u>Algorithms</u></p>	
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			<p>1) Vector Control 2) Direct torque control Programs <u>Data Acquisition Software and Hardware for Analysis</u></p>		
Electrical Engineering	89	Process Control Trainer	<p>A heating process with control interface, heating element controlled by thyristor interface, Thermistor Detector, Air blower, Control interfacing.</p> <p>A temperature control process trainer comprising of:</p> <ul style="list-style-type: none"> • 50W nominal heater mounted in a 60mm diameter duct • Remotely Switchable two speed fan blowing air over the heater • Two platinum resistance temperature sensors, 0-150°C range, one measuring the heater surface temperature and one measuring the air temperature • Capable of demonstrating control of both the heater surface or the air temperature • Capable of demonstrating the difference between fast reacting and slow reacting sensors • USB interface to PC, plus connection terminals for interfacing to external controllers • Supplied with educational software for PID control as well 	1	<p>Prof. S. Ghosh, EE Ph. (0661)2462403 E-mail:- sghos@nitrkl.ac.in</p>

			<p>as data logging.</p> <p>Facility for the Curriculum Coverage:</p> <ul style="list-style-type: none"> • Open Loop and Closed loop processes • On/off control (Fixed Dead Band) • P, PI and PID control • This allows two different control implementations to be demonstrated with very different parameters, i.e.: • Temperature control of the heater surface (Direct Heating) • Temperature control of the air (Indirect Heating) 		
Electrical Engineering	88	Mixed Signal Scope	<p>Mixed Signal Oscilloscope (MSO) is 1GHz active probe 4 analog and 16 digital channels.</p> <ol style="list-style-type: none"> 1. 1 GHz bandwidth 2. 4 GSa/s sample rate 3. 4 analog plus 16 digital channels 4. Standard 8 Mpoints memory 5. 12.1" XGA display with 256 levels of intensity 6. Oscilloscope should have Bandwidth and memory upgradeability. 7. Trigger across any combination of Analog and Digital Signals simultaneously. 	1	<p>Prof. S. Das, EE Ph. (0661)2462402 E-mail:- sadas@nitrrkl.ac.in</p>

			8. 3-Standard USB, Ethernet / LAN, GP-IB Interface		
Electrical Engineering	90	Solar Energy System	<p>Photovoltaic solar panels, DC load and battery charger regulator, temperature sensors, computer control interface, data acquisition interface via PCI card with data management software.</p> <p>1. Photovoltaic solar panels: Polycrystalline Rating: MPP power 200 watts, MPP voltage 90V, 12 V, 24 Watts PV panels with stand 8 nos.</p> <p>2. DC to DC Bidirectional buck boost converter for charging the battery</p> <p>a. 4 Nos of high speed IGBT or MOSFET semiconductor devices are used</p> <p>b. 4 Nos of isolated high speed driver circuits are used</p> <p>c. 2 Nos of Hall effect Current transducer used for sensing the input and output of the converter current</p> <p>d. 2 Nos of Hall effect voltage transducer used for sensing the input and output of the converter voltage</p> <p>e. In boost mode I/P is 100V and O/P is 300V</p> <p>f. In buck mode I/P is 300V and O/P</p>	1	Prof. B. Subudhi, EE Ph. (0661)2462416 E-mail:-bidyadhar@nitrkl.ac.in

			<p>is 100V</p> <p>g. Power Rating is 200Watts</p> <p>h. dv/dt protection is available for all IGBT (Snubber circuit)</p> <p>j. dsPIC 4011 digital controller is used for generating the gate signal for the IGBT with Over load protection</p> <p>3.. Battery 8 Nos of 12V, 200Amps per hour batteries are connected is sensing to get 100V,DC O/P, Battery stand to be provided</p> <p>4. Inverter Module Three Phase IGBT based Power Module Power Circuit Input: 230VAC/300 VDC @ 4 amps Power Circuit Output: Suitable 750 watt RL load</p> <p>5. Sensors</p> <p>i) 3 temperature sensors provided signal conditioning circuits Input: 0-200° C, Output: 0-5 V DC</p> <p>ii) 3 Nos. of Hall effect current transducers with signal conditioning circuits. Input: 0-5 A, Output: 0-3 V</p> <p>iii) 3 Nos. of Hall effect voltage transducers with signal conditioning circuits, Input: 0-450 V, Output: 0-3 V</p> <p>6. DC to DC Boost Converter Input voltage: 100V DC, Output Voltage: 300V DC</p>	
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			<p>2MSPS ADC 4 Channel 14 bit 2MSPS DAC</p> <p>8.Data Acquisition System Base Board Specification</p> <ul style="list-style-type: none"> * USB TMC Standards * True plug and play # USB TMC Class Device 12 bit ADC & 14 bit DAC * Analog Input : 8SE/4DI * No. of ADC : Single Dual Channel ADC * Simultaneous Sampling : 2 Channel * Sampling Rate : 2msps * Range : 0to5v * Analog output : 4 Channel * No.of DAC : 2 * Resolution : 14 bit * Speed : 2msps * Range : 5v * USB based Data Acquisition system * Battery voltage and current, PV panel's voltage and current, Inverter output Voltage and Current displayed in a PC through the Data Acquisition system (DAS) <p>9. 1- phase Grid : Connection facility for PV strings, DC Distribution Board for Battery Bank, Inverter, AC Distribution with necessary switch gears,</p>		
Electrical	92	Power Transmission	Transmission line(1000 kms) with	1	Prof. S. Karmakar, EE

Engineering		Line	<p>fault creator, CT/PT and STATCOM</p> <ol style="list-style-type: none"> 1. 110 V, 3 Phase station model. 2. Auto transformer in the station side for voltage control. 3. Energy meter in both station and load models to measure the voltage, current, power, power factor, etc. 4. Transmission line model 'pi' and 'Tee' circuits (Minimum 14 each), consisting of series inductor, series resistor and shunt capacitor. (Variable Values of line parameters) 5. Series capacitor model to vary the series compensation from 10% to 50% 6. Autotransformer for voltage control in the loading section 7. Inductive and resistive load. 8. Capacitor bank to improve on the power factor. 9. Upto 1000Km transmission line length. 10. Integrated software & Automation 		<p>Ph. (0661)2462411 E-mail:-karmakars@nitrkl.ac.in</p>
Chemical Engineering	62	FTIR	<p>The instrument will be procured to support the research activity at Department of Chemical Engineering, NIT Rourkela. The instrument must be able to analyze the samples of organic and inorganic compounds in the form of solid powder, nanoparticles, thin films, flat</p>	1	<p>Prof. Santanu Paria, CH Ph. (0661)2462262 E-mail:-sparia@nitrkl.ac.in</p>

			<p>smooth or rough plates, aqueous and non-aqueous suspensions and solutions, micro emulsions etc. For detail application information the supplier may contact with the concern person.</p> <ol style="list-style-type: none">1. Scan range: minimum 7500-350cm⁻¹ or better.2. Long-life sealed and desiccated optical unit (at least 5 years or more). The source should have Long-life; user replaceable. Instrument should not require extra dehumidifier or continuous switching on.3. Signal to noise ratio: Should be mentioned with respect to time and type (peak-peak or RMS). > 9,000:1 peak-peak, 5 second scan and > 32,000:1 peak-peak, 1 minute scan.4. Variable spectrum resolution as per requirement of sample. Spectral resolution with at least 0.5-0.4 cm⁻¹ or lower.5. Wavelength accuracy and precision: Should mention at which wave length. Wavelength accuracy of at least 0.1 cm⁻¹ and precision of	
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			<p>at least 0.01 cm^{-1} at 3000 cm^{-1}.</p> <p>6. A real-time atmospheric vapour correction (AVC) or a comparable utility must be available. This should not require the collection of reference or calibration spectra</p> <p>7. Measurement technique: Transmitted, reflectance, and ZnSe ATR modes. Using KBr pellet and liquid samples, <i>including aqueous solutions</i>.</p> <p>8. Accessories for sample analysis (should come with the base instrument): Accessories for analysis of powder, liquid, flat plate, and film type samples.</p> <p>9. Sample preparation unit: Standard KBr pellet preparation unit for powder sample.</p> <p>10. Computer with standard specification and TFT monitor suitable for the instrument.</p> <p>11. Software: User friendly software to record the spectrum as well to identify and edit the recorded spectrum for further processing of data.</p>		
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			<p>12. Warranty: One year or more.</p> <p>13. User list of the same or similar model in the reputed institutions with the address and phone No. of concern user. If possible, produce customer satisfaction certificate.</p> <p>14. Supporting information/spectrums of the similar samples mentioned in the application.</p>		
Chemical Engineering	68	UV Spectrophotometer	<p>UV-Vis spectrophotometer, Band width: - 190 to 1100 nm;</p> <p>wavelength accuracy: ±0.1nm @ 656.1nm D2,</p> <p>wavelength repeatability: ±0.1nm;</p> <p>Double beam photometric system; Abs range: -4 to 4 Abs & Transmittance: 0% to 400%;</p> <p>Photometric accuracy: ±0.002 Abs (0.5Abs) - ±0.006 Abs (2.0Abs); Accessories : Printer with memory.</p>	1	Prof. Susmita Mishra, CH Ph. (0661)2462255 E-mail:-smishra@nitrkl.ac.in
Biomedical Engineering	60	Bio-medical Data Acquisition and Analysis system	<p>1. Should be able to acquire EEG (at least 16 channel), ERS, EMG, ECG, EOG, GSR, PPG, Spirometer, Pulse oxymeter, 02</p>	1	Prof. Amit Biswas, BM Ph. (0661)2462285 E-mail:- amit.biswas@nitrkl.ac.in

			<p>and CO₂ level, Electroimpedance, temperature data.</p> <ol style="list-style-type: none"> 2. Capable of running multiple applications 3. Necessary user-friendly software (data should be transferable tot third party software) <p>Should have provision for On-line analysis.</p>		
Civil Engineering	71	Asphalt material Performance Tester	<ul style="list-style-type: none"> • SPT confining cell assembly • SPT Hydraulic power supply assembly • SPT Environmental control unit • SPT Control & Data Acquisition System • Target clamp assembly (X 6) • SPT 15 kN Hydraulic actuator assembly • SPT Cabinet assembly • SPT Transducer kit 	1	Prof. Mahavir Panda, CE Ph. (0661)2462312 E-mail:- mpanda@nitrrkl.ac.in
Civil Engineering	93	Liquid level Sensor	OTT Rader Level sensor for water Level with data logger	1	Prof. K.K. Khatua, CE Ph. (0661)2462307 E-mail:-kkkhatua@nitrrkl.ac.in
Electronics and Communication Engineering	95	Digital Camera including PC with interfacing Software (bio-medical application and gesture recognition)	<ul style="list-style-type: none"> • Intel i7 4GHz Processor, 3GB L2 Cache Memory, Intel Q41 Chipset, 1066 MHz FSB, 4GB PC2 6300 DDR2 RAM, 500GB SATA Hard Disk, DVD CD-RW Drive, 18.5" TFT (wide) Colour 	1	Prof. Samit Ari, EC Ph. (0661)2462464 E-mail:-samit@nitrrkl.ac.in

			<p>Monitor, 6USB 2.0 Ports, Gigabit Ethernet, Key board, optical Mouse.</p> <ul style="list-style-type: none"> • The Embedded Vision System Platform • FireWire Camera and accessories (IEEE 1394b, 659x490, 71 FPS, Color) • GigE Camera and accessories (GigE, 1392x1040, 17 FPS, Color) • Power Supply • Lenses (8.5mm, 12mm,16mm, 25mm, 35mm) • Cables and Accessories 		
Electronics and Communication Engineering	97	Data Acquisition System	<ul style="list-style-type: none"> • 16 channel, 16 bit resolution recorder with programmable gain, twelve general-purpose BNC analog inputs, four optional single-ended (BNC)/differential (Pod port) analog inputs, two independent stimulator outputs, an external trigger input and signal triggering. • proper visualization and analysis software • Dual Bio-amplifier/Stimulator • ECG 12 lead switch Box • Physiology Accessory Kit • Plethysmograph-Finger Clip • Psychophysiology Kit • Wireless Heart Rate Kit 	1	Prof. Samit Ari, EC Ph. (0661)2462464 E-mail:-samit@nitrrkl.ac.in

			<ul style="list-style-type: none"> Human Respiratory Kit 		
			Digital Stethoscope		
Electronics and Communication Engineering	98	Software Defined Radio		1	Prof. Samit Ari, EC Ph. (0661)2462464 E-mail:-samit@nitrrkl.ac.in
Electronics and Communication Engineering	100	UPS	On-Line UPS (Rack Mountable Type) suitable for Single Phase AC Input and Single Phase AC Output, Rating of UPS: 30 KVA, Indicative Back-up time: 120 Minutes	1	Prof. Samit Ari, EC Ph. (0661)2462464 E-mail:-samit@nitrrkl.ac.in
Electronics and Communication Engineering	101	Synopsis Software		1	Prof. Samit Ari, EC Ph. (0661)2462464 E-mail:-samit@nitrrkl.ac.in
Electronics and Communication Engineering	102	Cadence Software		1	Prof. Samit Ari, EC Ph. (0661)2462464 E-mail:-samit@nitrrkl.ac.in
Computer Science and Engineering	77	Biometric Research System consisting of following items. i) Iris recognition and face camera ii) Dual Iris Capture Scanner iii) Finger print live scanner iv) Signature capture pad		1	Prof. Pankaj Sa, CS Ph. (0661)2462362 E-mail:-PankajKSa@nitrrkl.ac.in
Computer Science and Engineering	83	Tablet Mobile workstation		1	Prof. Pankaj Sa, CS Ph. (0661)2462362 E-mail:-PankajKSa@nitrrkl.ac.in
Computer	73	Robotic Research		1	Prof. Pankaj Sa, CS

Science and Engineering		Platform			Ph. (0661)2462362 E-mail:-PankajKSa@nitrkl.ac.in			
Computer Science and Engineering	72	Test bed for Ad-hoc and sensor Networks with 10 modes including all necessary software and interface		1	Prof. Pankaj Sa, CS Ph. (0661)2462362 E-mail:-PankajKSa@nitrkl.ac.in			
Computer Science and Engineering	84	Network Storage Server		1	Prof. Pankaj Sa, CS Ph. (0661)2462362 E-mail:-PankajKSa@nitrkl.ac.in			
Mechanical Engineering	104	Vibration Analyser cum Dynamic Balancer a) FFT analyser (minimum Two Channel) b) Single and Two Plane balancing	The offer should include hardware (PC interface compatible) and all operating software and all the accessories (cables, connectors, sensors, magnetic base, Tachometer, stroboscope etc) General Specification:	1	Prof. S.C. Mohanty, ME Ph. (0661)2462511 E-mail:-scmohanty@nitrkl.ac.in			
						Nos.	Features	Comments
						1.	Indication	Digital Analyser
						2.	Display	LCD/LED
						3.	Frequency	0 Hz 40 KHz
						4.	Resolution	800 lines (minimum)
						5.	Dynamic Range	>90 dB
						6.	A/D Converter	24-bit and above
7.	No. of channels	4 & additional						

					1 for Phase measurement		
			8.	Data Storage	1 GB and above		
			9.	Sensors Compatibility	Accelerometer (CLD & ICP) & Tacho (both Strobes & laser)		
			10.	Analysis	FFT, Waveform, 2 plane 2 channel Balancing		
			11.	RPM	100 to 50000		
			12.	Power Supply	Rechargeable battery		
Mechanical Engineering	105	Three Body Abrasion Tester				1	Prof. S.K. Acharya, ME Ph. (0661)2462502 E-mail:-skacharya@nitrkl.ac.in
Mechanical Engineering	103	Wired EDM machine				1	Prof. S.K. Sahoo, ME Ph. (0661)2462520 E-mail:-sks@nitrkl.ac.in
Mechanical Engineering	106	Heat Transfer Measurement Device - Convection heat transfer measuring device		The experimental set up is required. 1. To investigate the relationship between power input and surface temperature in free convection		1	Prof. S. Murgan, ME Ph. (0661)2462525 E-mail:-vaahan2k9@nitrkl.ac.in

			<p>on flat, finned and pinned plates.</p> <ol style="list-style-type: none"> 2. To investigate the relationship between power input and surface temperature in forced convection on flat, finned and pinned plates 3. To investigate use of extended surfaces to improve heat transfer from the surface. 4. To determine the temperature distribution along an extended surface. 		
		<p>Conductive heat transfer measuring device</p>	<p>The experimental set up should have the following capabilities;</p> <ol style="list-style-type: none"> 1. Understanding the Fourier rate equation in determining the rate of heat flow through solid materials. 2. Measuring the temperature distribution for steady state conduction of energy through a uniform plane solid and composite plane solid. 3. Determine the constant of proportionality (Thermal conductivity) of different materials (conductors and insulators). 4. Measuring the temperature drop at the contact face between adjacent layers in a composite plane solid. 5. Measuring the temperature distribution for steady state conduction of energy through a 	<p>1</p>	<p>Prof. S. Murgan, ME Ph. (0661)2462525 E-mail:-vaahan2k9@nitrrkl.ac.in</p>

			<p>plane solid of reduced cross sectional area.</p> <ol style="list-style-type: none"> 6. Understanding the application of poor conductors (insulators) 7. Observing unsteady state conduction (qualitative only) 		
		Radiative heat transfer measuring device	<ol style="list-style-type: none"> 1. Demonstration of how temperature measurements can be affected by radiant heat transfer to a sensor from its surroundings and to show. 2. Effect of temperature difference between the sensor and its surroundings 3. Effect of air velocity 4. Effect of sensor size 5. Effect of sensor Emissivity 6. Demonstration of methods of reducing the errors in temperature measurement, which are due to radiation from a source that is visible to the sensor, Including: 7. Use of a radiation shield between the sensor and the source of radiation 8. Design of a radiation resistant sensor. 	1	Prof. S. Murgan, ME Ph. (0661)2462525 E-mail:-vaahan2k9@nitrrkl.ac.in

Prof. S.S.Mahapatra
Nodal Officer (Procurement)
TEQIP II

FORMAT OF QUOTATION * SUBMISSION
(In letterhead of the supplier with seal)

Sl. No.	Description Goods	Specifications	Qty.	Unit	Quoted Unit Rate in Rs.	Total Amount	
						In Figures	In Words

Gross Total Cost : Rs.

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs.(amount in figures) (Rs. amount in words) within the period specified in the Invitation for Quotations.

We also confirm that the normal commercial warrantee/guarantee of months shall apply to the offered goods.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: _____

Contact No. _____

* *Applicable while the bids are being invited for more than one item and would be evaluated for all the items together. Modify where evaluation would be made for each item separately.*