Responses to Pre-bid Queries

RFP for Supply of Equipment & Devices for IT & Electronics Design Laboratories on behalf of Gujarat Council on Science & Technology (GUJCOST), Gandhinagar (Tender No. Tender No. HWT120918514)

	Tender Reference		,	
Sr. No	Tage No. / Section	Tender Description	Query / Clarification / Suggestions from the Vendors	Responses to the Queries
1	No. / Clause No.	Item No. C 5: Intelligent Power Module for DC-DC convertor Make / Model: Nitech Output Power: 1 kW, Voltage (I/O): 100-200V, Current: 5-10A Switching Frequency: 50 kHz, Voltage Ripple 5 %, Current Ripple 5% Inbuilt isolated gate driving circuits and terminal to connect gate pulse generated by controller.	Need application and project use case of the same which is required while training and colleges demand as to how can this help in design lab and most of the colleges do not have DC supply Source for this and also do not have any application for the output 300-400V DC that they get using this.	As per RFP. In addition to this, the required compatible Single Phase AC (Input 230 V) to DC Converter to be provided with this item.
2	Page No. 15 / Section 4 / BoQ with Technical Specifications	Item No. C 6: Intelligent Power Module for Motor Control 3Phase rectifier, inverter combination. Power output 2kW-5kW, Voltage: up to 440V, 3 Phase Output Maximum Input Voltage: Three Phase 415 V 50Hz., DC Link Voltage: 600V, Output 400V/10A. 1200V,25A diode bridge for AC-DC power conversion with Electrolyte DC Capacitor Three Phase 1200V, 30 A IGBT power module with appropriate heat sink and snubber circuit Recommended switching frequency of the inverter 20kHz.	Need application and project use case of the same which is required while training and colleges demand as to how can this help in design lab. Colleges do not have 3 phase power supply and gate pulse generation mechanism. Also these modules are very bulky and fragile.	As per RFP. Intelligent Power Module for Motor Control should also be of Nitech Brand.
3		Item No. C 7: Intelligent Power Module for Phase Control Make / Model: Nitech Range: 2kW-5kW Power Management IC Development Tools 2 kW 3-phase motor control evaluation board featuring the STGIPS20C60 IGBT intelligent power module Manufacturer ST Microelectronics	Requires additional circuitry to use this which is not available in most of the colleges. Also require application and project use case of the same.	Item Deleted.
4		Item No. C 11: Signal Processing Board Make / Model: TMDSDSK6713 Evaluation Platform Board, MCU 32-Bit, MPU, R4F or equivalent Core Processor, Fixed Mounting Type	The product is obsolete and current softwares are not available for the same. This product needs to change.	Please consider Upgraded Version: Make / Model: TMS320C6748
5	Page No. 16 / Section 4 / BoQ with Technical Specifications	Item No. C 12: Small Motors PMAC/Switched Reluctance Motor: 8/6 poles number, Rated Power: 0.55 KW, Rated speed: 1000 rpm., Speed range: 370RPM - 3020RPM, Rated Torque: 5.2N.m., Rated Current: 4.75 A. Driver: AC 230volt, Motor: 285V Stepper Motor: Phase: 4 phase., Step Angle: 1.8+5% /Step, Voltage: 3.0 V Current: 2.0 A/Phase, Resistance: 1.5 +10% Ω/Phase, Inductance: 2.5+20% mH/Phase, Holding Torque: 90 N.cm Max, Detent Torque: 3.5 Ncm Min Insulation Class: B BLDC Motor: Voltage: 48V 60V DC, Power: 750W, Rated Speed: 2800rpm Rated Current: 20.0/16.0 A, Rated Torque: 2.56N.m, Motor Weight: 7.2KGS, Reduction ratio: 6:1 DC Motor: 8000 RPM no load speed at 12V/24v, No Load Current: 1A, Stall Current: 5a/10a, Torque: 0.36Kgcm	Requires additional circuitry to use this which is not available in most of the colleges. Also require application and project use case of the same.	As per RFP. In addition to this, the required compatible Single Phase AC (Input 230 V) to DC (0 to 100 V variable) Converter to be provided with this item. Revised Quantity: 1 Set per Design Lab (Total: 8 Set)

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Sr. No.	Page No. / Section No. / Clause No.	Tender Description		
6		Item No. C 13: Speed and Position Sensing Encoders 1000 PPR to 3600 PPR (A, B, Z pulses)	Need part number for the same and application and use case as well.	As per RFP. Item should be compatible with Small Motors (Item No. C 12)
7	Page No. 17 / Section 4 / BoQ with Technical Specifications	Item No. D 1 to 10: Data Acquisition Cards Make / Model: CompactRIO Systems	Most of the colleges do not have LABVIEW 2014 and above which is required to run this hardware, because of which this hardware is of no use. Kindly include the same or suggest alternative.	Bidder will have to consider myRIO Student Embedded Device & myDAQ Student Data Acquisition Device in place of CompactRIO System. This DAC cards will be used by Colleges and Universities for Educational purpose only, so should be supplied at Educational Concessional Rates.
8	Page No. 19 / Section 4 / BoQ with Technical Specifications	Item No. E 4: Drone Kit Make / Model: PlutoX / VPL-DK183 / Parrot Bebop 2	Need application and project use case of the same which is required for training and colleges demand as to how can this help in design lab. Also for the particular vendor specified the product is not standard in terms of quality and no guides/resource is available online because of which new student user will find it difficult to use the same, a known brand is useful in such cases.	Drone Kit: Make / Model: RCS 501S/ PlutoX / VPL-DK183 / Parrot Bebop 2. Drone Kit must be Quadcopters for developers with at least 4Kg of payload.
9	Page No. 20 / Section 4 / BoQ with Technical Specifications	Item No. E 6: Intel Atom IOT board Make / Model: Intel Edison IoT	Intel has discontinued this product, kindly suggest alternative for the same.	Item is Replaced with Following: UP Squared* Grove* IoT Development Kit
10		Item No. E 7: Intel Galileo, Genuino & Edison Make / Model: Intel Intel Galileo Gen2 x 3; Intel Genuino 101 dev board x 3 & Intel Edison IoT x 3	Intel has discontinued this product, kindly suggest alternative for the same.	Please consider Following Set of Items: (All with backward shield compatible header connector) (1) Arduino MKR IoT Bundle (Qty-2) (2) Arduino MKR WAN 1300 (LoRa connectivity) (Qty-2) (3) Arduino MKR Zero with Header (Qty-2) (4) Beagle Bone Black (Qty-2) (5) ARM Cortex-5 General Purpose dev. Board with Debugger (Qty-2) (6) CC26x2R Wireless MCU LaunchPad™ Development Kit (Qty-1) (7) Pixy 2 CMUcam5 Smart Vision Sensor (Qty-1) Revised Quantity: 1 Set per Design Lab (Total: 8 Set)
11		Item No. E 9: Mini PC Make / Model: ASUS E420 1.8 GHz Intel Celeron 3865U Dual-Core, 4GB of 1600 MHz DDR4 RAM, 32GB Solid State Drive, Integrated Intel HD Graphics, Intel Dual Band 802.11ac module, USB 3.0*4 ports, Support Ultra HD 4K, Support Dual Storage Devices	Screen, keyboard and mouse are required additionally. Also no software can run on this which is required in design lab, so colleges with less computers find it very difficult to specifically allot computers capable of running Labview and similar software. So kindly upgrade this to a powerful computer.	Mini/SFF PC: Specification: Intel i5 Processor, 8 GB RAM, 1 TB HDD, DVD Drive, Minimum 4 USB Ports, 18" HD Monitor, Keyboard, Mouse Revised Quantity: 3 per Design Lab (Total: 24)

		Tender Reference		
Sr. No.	Page No. / Section No. / Clause No.	Tender Description	Query / Clarification / Suggestions from the Vendors	Responses to the Queries
12		Item No. E 10: Programmable Humanoids Make / Model: RQ-HUNO Robotic Humanoid Kit / VPL-RAT-PH FEATURES • WiFi expansion, should support WiFi wireless control. • 18 DOF humanoid robot mainly consists of a head, a torso, two arms, two legs. • It should have 12g high-sensitivity power metal gear servos, robot has characteristics of multi-DoF, which provides a powerful imagination for the users. With this, users can customize freely the actions of this robot according to their needs. • Body parameters: Full body height: 20cm, Length of Leg: 10.5cm, Length of Arm: 10.6cm, Material: plastic • Power systems: 12g metal gear analog servos, which has high accuracy, the dummy bit small, zero dead zone, so that the robot's movements more agile, neat! • Controller: 18 road servos WiFi controlled driver Board • Wireless remote controller: You can remotely control the robot dozen action to facilitate performing various dance moves.	For the particular vendor specified the product is not standard in terms of quality and no guides/resource is available online because of which new student user will find it difficult to use the same, a known brand is useful in such cases.	As per RFP. Revised Quantity: 2 per Design Lab (Total: 16)
13		Item No. G 2: CNC Machine Make / Model: Makita MLT100 With Vinyl Cutting Kit, Burning Laser, Hot knife cutter, etc., 4300 RPM 43.8 kg Table Saw	CNC Machine is mentioned, wood cutting machine is the make and other accessory not related to any is mentioned which creates a lot of confusion. Kindly clear the confusion for the same. Also MLT100 is not required by colleges as per their feedback.	Item no. G1 & G2 are replaced with PCB Prototyping Machine (of minimum 4 x 6" PCB size) (Gerber to Prototyping support) Minimum 2 Layer PCB should be designed.
14	4 / BoQ with	Item No. H 2: PPG Sensor Make / Model: Easypulse non-invasive optical technique for detecting cardio-vascular pulse wave from fingertip from Easypulse - breakout board	Easypulse is not widely known vendor, suggested alternate supply is https://www.seeedstudio.com/Grove-Finger-clip-Heart-Rate-Sensor-with-shell-p-2420.html	Any brand good quality Sensors can be accepted. Sensors must compatible with Development Board considered in this RFP.
15		Item No. H 3: Temperature Sensor Make / Model: GE MA200 NTC Thermistor Thermistor for sensing human body temperature	Obsolete - scarce availability - upgrade to GE MA300NTC	Upgrade Version GE MA300 NTC or other make with I2C or SPI interface. Must compatible with Development Board considered in this RFP.
16		Item No. H 8: Pressure sensor Measures Barometric Pressure BMP 180 Breakout	Obsolete - Upgrade to - BMP280 I2C or SPI Barometric Pressure & Altitude Sensor	Upgrade Version BMP280 I2C or SPI Barometric Pressure & Altitude Sensor. Must compatible with Development Board considered in this RFP.
17	4 / BoQ with	Item No. H 9: Humidity and Temperature Make / Model: Sensirion SHT 11 For sensing of ambient temperature and humidity breakout board	Obsolete - Upgrade to - SHT15 breakout board	Upgrade Version Sensirion SHT 15 or other make with I2C or SPI interface. Must compatible with Development Board considered in this RFP.
18		Item No. H 10: Barometric BM180 Breakout Board	Repeated of H8 and Obsolete - Suggested MPL3115A2	Item Deleted.

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Sr. No.	Page No. / Section No. / Clause No.	Tender Description		
19	Page No. 23 / Section	Item No. H 23: PH sensor Make / Model: Vernier Vernier pH Sensor pH BTA (vernier.com) epoxy body 5-80 degree C; pH 0-14; accuracy +-0.2pH,	Additional circuit and software required to get it working also no calibration solution provided and 5 pcs of only measuring pH is not sufficient to get any project running so we suggest the following - https://www.atlas-scientific.com/product_pages/kits/env-sds-kit.html	Any brand PH Sensor with I2C or SPI interface. Must compatible with Development Board considered in this RFP.
20		OEM Support Bidder should be authorized by its OEM or their Authorized Dealer / Distributor for the items they want to quote in this bid for Support during the warranty period. Without Authorization Letter / Certificate, the bids are liable to rejection. Supporting documents Required: 1. Valid Authorization Letter / Certificate issued by OEM or their Authorized Dealer / Distributor. 2. MAFs from OEMs (Form E-5)	We have supplied last year and can supply this year as well but the eligibility criteria as mentioned this time; We may or may not be able to provide the authorisation letter or certificate so we'd request to not make it mandatory. Also one of the supplier Nitech is not ready to provide quote as they have already quoted to some party and cannot quote to us. So kindly suggest alternatives.	Request not accepted. As per RFP.
21	Page No. 14 / Section 4 / BoQ with Technical Specifications	Item No. B 1: Compact Thermal Imaging System Item No. B 2: Thermal Camera for Product Inspection	Suggestions: You can have one out of two.	As per RFP.
22	Page No. 15 / Section 4 / BoQ with Technical	Item No. C 5: Intelligent Power Module for DC-DC convertor (Nitech) Item No. C 6: Intelligent Power Module for Motor Control	Suggestions: Both the module are very much needed when any DSP or Microcontroller card is to be connected with load e.g., resistive load or motor load may be single phase or three phase, without these modules you cannot connect the load or run the motor.	Please refer Sr. No. 1 & 2 above.
23	- Specifications	Item No. C 7: Intelligent Power Module for Phase Control (Nitech)	Suggestions: Purpose of this module cab be solve to using C-5 and C-6 Module so no need to go for this.	Item Deleted.
24	Page No. 16 / Section 4 / BoQ with Technical Specifications	Item No. C 11: Signal Processing Board Make / Model: TMDSDSK6713	Suggestions: Looking at your buying pattern, it seems you wish to buy DSP kit which control motor. However, Texas 28xx series is famous to control motors. Suggestion would be to buy DSP 28335 kit which is very good for motor control. Next suggest would be to buy DSP 6713 as compared to DSP 6748 because of ease of operation of 6713 w.r.t. 6748.	Please refer Sr. No. 4 above.
25		Item No. C 12: Small motors	Suggestions & Confirmation: All motors are compatible with deriver provided with them and also can be run using C-5,C-6 and C-11 Boards.	Please refer Sr. No. 5 above.
26	Page No. 17 / Section 4 / BoQ with Technical Specifications	Item No. D 1 to 10: Data Acquisition Cards Make / Model: CompactRIO Systems	Observations: As these all DAC cards are from NI and compatible with NI Labview only . And after warranty period it is costing adding for up gradation. Suggestions: We suggest Linux base embedded controller. For the same we have attached technical compliance sheet hear with.	Please refer Sr. No. 7 above.

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Sr. No.	Page No. / Section No. / Clause No.	Tender Description	Query / Clarification / Suggestions from the Vendors	Responses to the Queries
27	Page No. 17 / Section 4 / BoQ with Technical Specifications	Item No. E 1: Analog Discovery 2	Suggestions: As lot of product is available in India as stand alone Testing Equipment so pl see at your side and tell us to quote.	As per RFP. Revised Quantity: 2 per Design Lab (Total: 16)
28	Page No. 19 / Section 4 / BoQ with Technical Specifications	Item No. E 4: Drone Kit Make / Model: PlutoX / VPL-DK183 / Parrot Bebop 2	Suggestions: As per the discussion during meeting we have given you hear 2 different Models with pay load like ADS and RCS 501S.	Please refer Sr. No. 8 above.
29	Page No. 20 / Section	Item No. E 6: Intel Atom IOT board Item No. E 7: Intel Galileo, Genuino & Edison	Suggestions: Make:- Asus as per the suggestion in letter.	Please refer Sr. No. 9 & 10 above.
30	4 / BoQ with Technical Specifications	Item No. E 8: Kit for Smart Home network (CloudBit)	Suggestions: Same products is available in India with same facility and functions. So we suggest kindly remove make " Cloud Bit".	Any brand Kit meeting the minimum specifications as defined in the RFP will be accepted.
31	· opeomodions	Item No. E 10: Programmable Humanoids Make / Model: RQ-HUNO Robotic Humanoid Kit / VPL-RAT-PH	Suggestions: For the same we have attached technical compliance with our model with suggested price.	Please refer Sr. No. 12 above.
32	Page No. 21 / Section 4 / BoQ with Technical Specifications	Item No. G 1: Drilling Station Item No. G 2: CNC Machine (Makita MLT100)	Suggestions: Kindly see the attachment this kind of product you should include.	Please refer Sr. No. 13 above.
33	Page No. 15 / Section 4 / BoQ with Technical	Item No. C 5: Intelligent Power Module for DC-DC convertor (Nitech) Item No. C 6: Intelligent Power Module for Motor Control	Both the model needed in Lab because without these you cannot connect the load or run the motor.	Please refer Sr. No. 1 & 2 above.
34	Specifications	Item No. C7: Intelligent Power Module for Phase Control (Nitech)	It required for C-5 and C-6 Module.	Item Deleted.
35	Page No. 16 / Section 4 / BoQ with Technical Specifications	Item No. C 12: Small motors	It should be compatible for the C-5, C-6 and C-11 Boards	Please refer Sr. No. 5 above.
36	Page No. 17 / Section 4 / BoQ with Technical Specifications	Item No. D 1 to 10: Data Acquisition Cards Make / Model: CompactRIO Systems	NI CRIO modules & chassis or complete system with high sampling real time data Acquisition is required for design Lab. NI CRIO system is successfully used by R& D & Industries to control & monitoring of the Test system it's very helpful for the Education	Please refer Sr. No. 7 above.
37	Page No. 15 / Section 4 / BoQ with	Item No. C 5: Intelligent Power Module for DC-DC convertor (Nitech) Item No. C 6: Intelligent Power Module for Motor Control	Clarification sheet attached submitted by Nitech	Please refer Sr. No. 1 & 2 above.
38	Technical Specifications	Item No. C 7: Intelligent Power Module for Phase Control (Nitech)	No Need to be Purchased as it is covered in C-5 & C-6	Item Deleted.
39	Page No. 16 / Section	Item No. C 11: Signal Processing Board Make / Model: TMDSDSK6713	Suggested specifications attached	Please refer Sr. No. 4 above.
40	Technical Specifications	Item No. C 12: Small motors	Can be compatible with C-5 & C-6. Clarification sheet attached	Please refer Sr. No. 5 above.

		Tender Reference		
Sr. No.	Page No. / Section No. / Clause No.	Tender Description	Query / Clarification / Suggestions from the Vendors	Responses to the Queries
41	Page No. 17 / Section 4 / BoQ with Technical Specifications	Item No. D 1 to 10: Data Acquisition Cards Make / Model: CompactRIO Systems	Vendor suggested for MyRio NI card. We inquired in NI and they suggest MyRio is student version and only Universities, Deem Uni. Or any educational institutes get this product in very cheaper price. If you procure through tender than it will be cost more than 3-4 times. If you have provision to procure from direct NI than it will be very cheaper.	Please refer Sr. No. 7 above.
42	Page No. 17 / Section 4 / BoQ with Technical Specifications	Item No. E 1: Analog Discovery 2	We suggest Scientech brand Design Lab. (catalogue attached for your reference)	Please refer Sr. No. 27 above.
43	Page No. 19 / Section 4 / BoQ with Technical Specifications	Item No. E 4: Drone Kit Make / Model: PlutoX / VPL-DK183 / Parrot Bebop 2	We suggest PlutoX (Catalogue attached for your reference). This is a indigenous product under Make in India and guided by IIT Mumbai, Why should go for DJI (Imported brand)? The person who came from MG Automation told that Pluto X products launch in January 2019, we inquired in Pluto X Company and they told that readily available with nos of quantity. For this the Declaration is also Attached which is provided from Manufacturer.	Please refer Sr. No. 8 above.
44		Item No. E 6: Intel Atom IOT board	Scientech brand suggest (Catalogue attached for reference)	Please refer Sr. No. 9 above.
45	Page No. 20 / Section 4 / BoQ with Technical Specifications	Item No. E 8: Kit for Smart Home network (CloudBit)	Due to Imported product prices are very high. We suggest that go for Indigenous under Make in India project.	Please refer Sr. No. 30 above.
46	Specifications	Item No. E 10: Programmable Humanoids Make / Model: RQ-HUNO Robotic Humanoid Kit / VPL-RAT-PH	Go for Indigenous make	Please refer Sr. No. 12 above.
47	Page No. 21 / Section 4 / BoQ with Technical Specifications	Item No. G 1: Drilling Station Item No. G 2: CNC Machine (Makita MLT100)	We suggest NVIS72 PCB Prototype machine (catalogue attached for reference.)	Please refer Sr. No. 13 above.
48	Page No. 21 / Section 4 / BoQ with Technical Specifications	Item No. H: Sensors	Suggesting you to remove the Specific Make.	Any brand good quality Sensors with I2C or SPI interface will be accepted. Sensors must be compatible with Development Board considered in this RFP.
			We are the NSIC Registered Company in India with Central Government which is equivalent to DGS & DC with which we can quote rate directly for tenders.	
49	Page No. 7 / Section 3 / Instruction to Bidders	13. The bidder will have to submit Non refundable Bid Processing Fees of Rs. 17,700/- & Earnest Money Deposit (E.M.D.) of Rs. 5,00,000/- (Refundable) on or before date & hours of submission of bid	Since we are the registered company with NSIC, we request you kindly exempt us from paying EMD and Tender processing Fee to quote for the above tenders and allow us to participate in it.	Request Not Accepted.
			We already quoted a lot of tenders through all over NIT's and IIT's. Replacement of EMD and Tender processing Fee we submitted NSIC Certificate.	

	Tender Reference			
Sr. No.	Page No. / Section No. / Clause No.	Tender Description	Query / Clarification / Suggestions from the Vendors	Responses to the Queries
50	Page No. 4 / Section 1 / Eligibility Criteria	The bidder must have one office in Gujarat. In case, bidder does not have office in Gujarat, bidder should give undertaking to open office in Gujarat within 45 days from the date of purchase order.	Bidder have office in Gujarat is must?	RFP Document is self explanatory. In case bidder does not have office in Gujarat, they will have to open the office in Gujarat within 45 days from the date of purchase order. Undertaking for the same to be given at the time of bid submission.
51	Page No. 4 / Section	OEM Support Bidder should be authorized by its OEM or their Authorized Dealer / Distributor for the items they want to quote in this bid for Support during the warranty period. Without Authorization Letter / Certificate, the bids are liable to rejection.	Form-5: Authorization Letter is must? Form-5 some of the items make mentioned in the tender document we should submit authorization certificate is must?	As per RFP.
52	Page No. 9 / Section 3 / Instruction to Bidders	30.3. The financial bid of the technically qualified bidders will be opened and financially L1 bidder will be decided from the sum total of prices for all line items without tax with warranty and then called for further negotiations if required.	4. Bids are evaluated items wise or bulk?	RFP Document is self explanatory. The Bidder should have to quote for all the line items as specified in RFP document. Incomplete bid will not be accepted and lead to rejection of the bid. Financially L1 bidder will be the lowest sum total of rate without tax.
Note	lote Bidder will also have to supply good quality 7" LCD displays (Qty - 2) and Webcam with Headphone (Qty - 1) for each Design Lab at each Colleges. Please consider the same and quote the cost accordingly.			