राष्ट्रीय प्रौद्योगिकी संस्थान सिक्किम

NATIONAL INSTITUTE OF TECHNOLOGY SIKKIM

(An Institute of National Importance, MHRD, Govt. of India)

INVITATION LETTER

Package Code: TEQIP-III/2019/ntst/131

Current Date: 21 Aug 2019

Package Name: NITS/TEQIP-III/EEE/DSO

Method: Shopping Goods

Sub: INVITATION LETTER FOR NITS/TEQIP-III/EEE/DSO

Dear Sir,

1. You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure-I:

S. No.	Item	Qty.	Place of Delivery	Installation Requirement (if any)	
	Digital Storage Oscilloscope 100 MHz, 4				
1	channel with in-built 20 MHz Function	10			
	Generator (Sample rate: 1GS/s)				
	100 MHz, 4 channel Digital Storage				
2	Oscilloscope with Differential probes	1		YES	
	(Sample rate: 5GS/s)		NIT		
3	100 MHz, 4 channel Digital Storage			(As per	
5	Oscilloscope (Sample rate: 5GS/s)	2	Sikkim	Tender	
4	Multiple Power Supply	3		Document)	
5	5 Current Probe AC & DC				
3	Frequency range: DC to 100 kHz (-3dB)	2			
6	Hand Held LCR Meter	1]		
7	Three-phase Power Quality Analyzer	2			

 Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme (TEQIP) - Phase III** 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.

3. Qualification Criteria:

The bidder/supplier should have:

- 3.1. Enclosed an EMD (Earnest Money Deposit) of Rs.1,20,000/- (Rupees One Lakh Twenty Thousand) in favour of The Director NIT Sikkim in the form of Demand Draft (DD) drawn on any commercial bank payable at Ravangla/Gangtok.
- 3.2. A minimum of 3 years experience of supplying similar items, substantiated by relevant documents.
- 3.3. An average annual turnover of Rs.30 Lakh in last three years.
- 3.4. Not been blacklisted by any Govt. Institution/Organization.

4. Quotation:

- 4.1. The contract shall be for the **full quantity** as described above.
- 4.2. The vendors are requested to quote lowest rate for the supply of all the items in the prescribed **Format for Quotation Submission (Annexure-III).**
- 4.3. Corrections, if any, shall be made by crossing out, initialling, dating and re writing.
- 4.4. All duties and other levies payable by the supplier under the contract shall be included in the unit Price.
- 4.5. Applicable taxes shall be quoted separately for all items.

NIT Sikkim being a Public Funded Research Institution, vide Notification No. 45/2017-Central Tax (Rate) and No 47/2017-Integrated Tax (Rate) is eligible for concessional rate of GST on purchase of Workstation (Computer). Further concession on customs duty is also available on customs duty vide notification No. 51/96-Cus. DSIR certificate shall be provided by the Institute to claim such concessional rate. Bidders are required to take into account the said concession in the Financial Bid. The concessional rate of GST is 5%. (Annexure–II, DSIR Certificate)

- 4.6. The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- 4.7. The Prices should be quoted in Indian Rupees only.
- 4.8. The vendor should submit trade licence/certificate of Registration (as applicable) in the required business/field, GST registration number and photocopy of the GST registration certificate, the PAN of proprietor/firm/ company with photocopy of the PAN card. Please attach a certificate that the quoted price is not more than that of any govt. organization/Institute in India. This has to be mention in the offer letter clearly.
- 5. Each bidder shall submit only one quotation.
- 6. Quotation shall remain valid for a period not less than **45** days after the last date of quotation submission.
- 7. The quotation should include the following information:
 - 7.1. Authorization certificate from the OEM/Principal assuring full guarantee and warrantee obligations during the liability period, for the goods offered.
 - 7.2. The list of clients (IITs, NITs/Central Universities and other reputed Institution) duly supported by copies of purchase order.
 - 7.3. Details of service/supports centres located in India.
- 8. **Evaluation of Quotations**: The Purchaser will evaluate and compare the quotations determined to be Substantially responsive i.e. which:
 - 8.1. are properly signed; and
 - 8.2. Confirm to the terms and conditions, and specifications.
 - 8.3. The vendor should provide complete technical details (printed literature of the manufacturer along with model/make) and the same should be verifiable from

the website of the vendor/OEM. Mere copying the technical specification provided in the Annexure-I may lead to cancellation of the bid.

- 8.4. The Institute reserves the right for pre-inspection of the goods/equipment quoted by the vendor.
- 9. The Quotations would be evaluated for all items together.
- 10. Award of Contract: The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.
 - 10.1. Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of Contract.
 - 10.2. The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.
- 11. Payment shall be made in Indian Rupees as follows:
 Satisfactory Delivery & Installation 70% of total cost
 Satisfactory Acceptance 30% of total cost
- 12. Liquidated Damages will be applied as per the below:

Liquidated Damages per Day Min %: 0

Liquidated Damages Max %: 10

- (a) 1% of the total cost for delay up to 15 days;
- (b) 2% of the total cost for delay more than 15 days but less than 30 days;
- (c) 5% of the total cost for delay more than 30 days but less than 60 days;
- (d) 10% of the total cost for delay more than 60 days;
- **13.** All supplied items are under onsite warranty for 3 years from the date of successful acceptance of items.
- 14. You are requested to provide your offer latest by 15:00 hours on 11 September 2019.
- 15. Detailed specifications of the items are at Annexure-I.
- 16. Training Clause (if any): YES (Two Days Training)
- 17. Testing/Installation Clause (if any): YES
- 18. Performance Security shall be applicable: 5%

Within 07 days (seven) of the completion of order/ work order/contract/, the successful Bidder shall furnish a Performance Guarantee of an **amount equivalent to 5% of the order value**. Performance Guarantee submitted shall be from a Scheduled Commercial Bank only. Performances guarantee in the form of Demand Draft, Fixed deposit receipt/Bank Guarantee in the standard format from a scheduled commercial bank shall only be acceptable. Performance Bank Guarantee should be valid up to 60 days beyond the date of warranty/last date of contract period. In case of failure to submit the performance security, equivalent amount shall be deducted from the bill payable and kept as security.

- 19. Information brochures/ Product catalogue must be accompanied with the quotation clearly indicating the model quoted for.
- 20. The vendors should submit the technical and financial bids in a sealed envelope. Sealed quotation to be submitted/ delivered at the address mentioned below:

The Nodal Office (Procurement), TEQIP-III, National Institute of Technology Sikkim, Barfung Block, Ravangla, South Sikkim Pin Code - 737139

21. We look forward to receiving your quotation and thank you for your interest in this project.

Dr. Achintesh N. Biswas Nodal Officer (Procurement)

(Annexure–I)

Sl.	Description of Items		Qnty
No.	Digital Storage Oscilloscope 100 MHz, 4 channel with in-built 20 MHz Function		10
1.	Generator		
	Technical Parameter	Specifications	
	Channel	4	
	Bandwidth	100 MHz (Future Upgradable to 200 MHz)	
	Sample Rate	1GS/s per channel	
	Rise Time	\leq 3.5 ns or better	
	Waveform Update	50,000 waveforms per second or better	
	Rate		
	Input Impedance	$1 \text{ M}\Omega \pm 2\%/16 \text{ pF} \pm 3 \text{ pF}$	
	Memory	1Mpts & Segmented Memory	
	Vertical Sensitivity	500 µV/div to 10 V/div	
	Zoom	Should be available	
	Max Input Voltage	150 Vrms, 200 Vpk and DSO should be	
		capable to accept Input voltage upto	
		300Vrms with given probe.	
	Time Base Range	5 ns/div to 50 s/div	
	Input Coupling	AC, DC	
	Acquisition Modes	Normal, Peak Detect, Average, Roll Mode,	
		Segmented	
	Trigger Modes	Auto, Normal, Single ,Force	
	Automatic Waveform	Peak-to-peak, maximum, minimum,	
	Measurements	amplitude, top, base, overshoot, pre-shoot,	
		average- N cycles, average-full screen, DC	
		RMS-N cycles, DC RMS-full screen, AC RMS-N cycles, AC RMS-full screen, Period,	
		frequency, counter, + width, - width, +duty	
		cycle, -duty cycle, bit rate, rise time, fall	
		time, delay, phase,	
		X at min Y, X at max Y	
	Cursors(Type,	Voltage, Time(ΔT , 1/ ΔT (frequency), ΔV)	
	Measurements)		
	Waveform storage	Through flash drive & PC.	
	Passive Probe	1:1, 10:1 switchable 200 MHz passive probe	
		4 Nos.	
	Setups	10 Setup	
	Screen images	.bitmap, .PNG,	
	I/O interface	USB Device, USB Host, LAN	
	Required Features	1. Display of FFT Signal of any	
		selected channel.	
		2. Span &Center frequency control	
		should available during the FFT	
		operation	
		3. Software for Test Automation for	
		repetitive type test, Data saving in	
		PC over LAN.	
		4. Multiple DSO Should be	
		controllable over LAN from	
		instructor's PC and data saving.	
	Function Generator	In-Built 20 MHz, 1 channel	
	Display Worrenty	7-inch TFT LCD WVGA	
	Warranty	3 Years	

TECHNICAL SPECIFICATION

S1.	Description of Items		Qnty
No.			
	Calibration	Original Equipment Manufacturer should	
		have NABL accredited calibration Lab in	
	~ . ~	India, Document to be submitted	
	Service Support	Original Equipment Manufacturer should	
		have their own established service center in	
		India, Document to be submitted	
	OEM Certificate	Distributor must submit the authorization of	
		Only Original Equipment Manufacturer,	
		relevant document to be provided.	
2	100 MHz, 4 channel Digital St	orage Oscilloscope with Differential probes	1
	Technical Parameter	Specifications	
	Channel	4	
	Bandwidth	100 MHz (Future Upgradable to 1GHz)	
	Sample Rate	5GS/s	
	Rise Time	\leq 3.5 ns	
	Waveform Update Rate	10,00,000 waveforms per second	
	Input Impedance	Selectable 1 M Ω ± 1% (14 pF), 50 Ω ± 1.5%	
	Memory	4Mpts & Segmented Memory	
	Vertical Sensitivity	1 mV to 5 V/div	
	Zoom	Should be available	
	Max Input Voltage	135Vrms; 190Vpk and DSO should be	
	Wax input voltage	capable to accept Input voltage 600Vrms or	
	Time Dece Dence	better with given Probe	
	Time Base Range	5 ns to 50 s/div	
	Input Coupling	AC, DC	
	Acquisition Modes	Peak Detect, Average, Roll Mode, Segmented	
	Trigger Modes	Auto, Normal, Single, zone trigger	
	Automatic Waveform	Period, Frequency, +Width, –Width, Rise	
	Measurements	Time, Fall Time,	
		Max, Min, Peak-to-Peak, Mean, Cycle RMS	
	Cursors(Type,	Voltage, Time(Δ T, 1/ Δ T (frequency), Δ V)	
	Measurements)		
	Waveform storage	Through flash drive and PC	
	Setups	10 Setup	
	Screen images	.bitmap, .PNG,	
	I/O interface	One USB 2.0 Device, Two USB 2.0 hi-speed	
		host, Supports memory devices, printers	
		and keyboards	
	Required Features	1. Zone triggering with dedicated hardware button.	
		2. Simultaneous display of two FFT	
		Signals of any two selected	
		channels.	
		 Span &Center frequency control 	
		should available during the FFT	
		operation	
		4. Software for Test Automation for	
		repetitive type test over LAN should	
		be provided.	
		5. Instrument should have facility to	
		send captured screen through Email	
		from instrument itself.	
	Display	8.5 inch Capacitive Touch	
	Differential Probe	1. 4 numbers Differential probe	
		2. Bandwidth 25 MHz	
		3. Attenuation 10:1 or 100:1 user	

C 1	Description of Itams		Ontri
Sl. No.	Description of Items		Qnty
	Passive Probe Warranty Calibration	selectable 4. Measurement up to ±700 V at 100:1 mode 500MHz , 10:1, 1MΩ, 11pF , 4 Numbers 3 Years Manufacturer should have NABL accredited caliburation Lab in India. Decument to be	
	Service Support	calibration Lab in India , Document to be submitted Manufacturer should have well established service center in India , Document to be submitted	
3	100 MHz, 4 channel Digital Sto	orage Oscilloscope	2
0	Technical Parameter	Specifications	-
	Channel	4	
	Bandwidth	100 MHz (Future Upgradable to 1GHz)	
	Sample Rate	5GS/s	
	Rise Time	\leq 3.5 ns	
	Waveform Update Rate	10,00,000 waveforms per second	
	Input Impedance	Selectable 1 M $\Omega \pm 1\%$ (14 pF), 50 $\Omega \pm 1.5\%$	
	Memory	4Mpts & Segmented Memory	
	Vertical Sensitivity	1 mV to 5 V/div	
	Zoom	Should be available	
	Max Input Voltage	135Vrms; 190Vpk and DSO should be capable to accept Input voltage 300Vrms	
	Time Base Range	5 ns to 50 s/div	
	Input Coupling	AC, DC	
	Acquisition Modes	Peak Detect, Average, Roll Mode, Segmented	
	Trigger Modes	Auto, Normal, Single, zone trigger	
	Automatic Waveform Measurements	Period, Frequency, +Width, –Width, Rise Time, Fall Time, Max, Min, Peak-to-Peak, Mean, Cycle RMS	
	Cursors(Type, Measurements)	Voltage, Time(Δ T, 1/ Δ T (frequency), Δ V)	
	Waveform storage Setups	Through flash drive and PC 10 Setup	
	Screen images	.bitmap, .PNG,	
	I/O interface	One USB 2.0 Device, Two USB 2.0 hi-speed host, Supports memory devices, printers and keyboards	
	Required Features	 and keyboards Zone triggering with dedicated hardware button. 	
		 Simultaneous display of two FFT Signals of any two selected channels. Span &Center frequency control 	
		 should available during the FFT operation Software for Test Automation for repetitive type test over LAN should be provided. 	
		• Instrument should have facility to send captured screen through Email from instrument itself.	
	Display	8.5 inch Capacitive Touch	

Sl. No.	Description of Items		Qnty
	Passive Probe	500MHz , 10:1, 1MΩ, 11pF , 4 Numbers	
	Warranty Calibration	3 Years Manufacturer should have NABL accredited calibration Lab in India, Document to be submitted	
	Service Support	Manufacturer should have well established service center in India , Document to be submitted	
4	-	variable ; 0 to +/- 15V/1A 5V, 5A fixed Constant Current operation, Ditage and Current	3
5	Current Probe AC & DC Frequency range: DC to 100 H Current Range: a) 100 mA to 10 A peak @ 10 b) 1A to 100 A peak @ 10 m Maximum Peak Current: a) 100 mV/A: 10 A dc or peak b)10 mV/A: 100 A dc or peak Working voltage: 600 Vrms C Battery: 9 V alkaline	00 mV/A V/A k ac c ac	2
6	Hand Held LCR Meter 20,000 counts resolution 0.2% accuracy Test Frequency 10kHz Combo Kit Includes accessories: soft carrying case, IR-to-USB cable, AC adaptor, SMD Tweezer		1
7			2

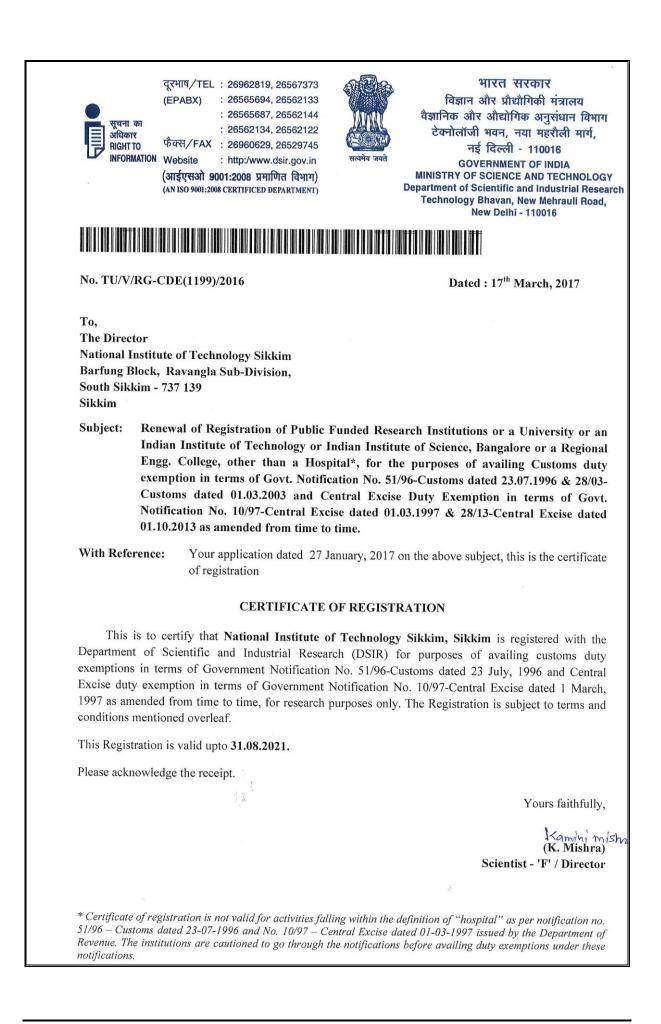
Description of Items			Qnt
Compliance with point of the complete power quick of	ower quality standard II	art Clamp range selection; EC 61000-4-30 Class S; g to EN 50160 including signalling and	
Color-coded input t	erminals and terminal l	supplied with the instrument); abels to suit your application region;	
navigate and configuPowerful PC Softw	re; are enables downloadir	akes the equipment very easy to ag, view, analysis of recorded data and	
professional report cr			
Functionality: EN 6	with following standa	ras:	
-		EC 61557-12;IEC 61000-4-7,Class I;	
	50160;IEEE 1448 & 14		
0	mpatibility (EMC): E	N 61326	
 Technical specificat Voltage input 			
 Number of in 			
	•	e (L-N): 50 to 1000 VRMS Line (L-L):	
50 to 1730 VI			
-	nge : 10% to 150% of n	÷	
•		0.5% of nominal voltage,	
· · ·	ncy range 42.5 to 69 H	50/60 Hz, sync with mains freq. $z + 10$ mHz	
Current inputs	• •		
• Number of in			
Iron Current c accessories)	elamp (50mA to 1200A) -3pcs (included as standard	
Functions	Measuring range	Accuracy	
Power (P, Q, S, cos φ, PF)	Depends on voltage & selected clamps	IEC 61557-12 Class 1	
Energy	Depends on voltage	Active: IEC 62053-21	
	& selected clamps	Class 1 Reactive: IEC 62053-23	
Harmonics (DC to	0 to 20% of nom.	IEC 61000-4-7 Class 1	
50th)	Voltage	IEC 01000-4-7 Class 1	
Interharmonics (1 to 50th)	0 to 20% of nom. Voltage	IEC 61000-4-7 Class 1	
Flicker	0.2 to 10	IEC 61000-4-15 Class F3	
Mains signaling	0 to 15% of nom. Voltage	IEC 61000-4-30 Class S	
Unbalance	Voltage: 0.5 to 5% & Current: 0 to		
Dips, Swell	10 to 150% of nom. Voltage	±0.2 % of nominal voltage ±1 cycle	
Interrupts	0 ÷ 10% of nom. Voltage	±1 cycle	
	emory : 8GB microSD rder: - Integration perio		
	e 1	od : 1s120min s, currents, harmonics, power)	

Sl.	Description of Items	
No.		
	Custom alarms	
	 Duration : > 1 year (depends on size of SD card) 	
	General	
	• Display : Min 4 inch color TFT (480 x 272)	
	• Communication : USB	
	• Power supply : 110 to 240 VAC or 6 x NiMh rechargeable batteries, size AA	
	• Overvoltage category : CAT IV / 600 V or CAT III / 1000 V	
	• Weight : Approximately 1 kg (without cables and batteries)	
	• Dimensions : Compact, Portable and Robust	
	• Current Clamp should work without any external power supply.	
	• System have Phase diagram view to graphically represent voltages, currents and phase angles of the network.	
	Have Password locking function.	

(Annexure-II)

DSIR Certificate

(EPAE) अधिकार अधिकार RIGHT TO INFORMATION Websi (आईएर	: 26565687, 26562144 : 26562134, 26562122 FAX : 26960629, 26529745	भारत सरकार विज्ञान और प्रौद्यौगिकी मंत्रालय वैज्ञानिक और औद्यौगिक अनुसंधान विभाग देक्नोलॉजी भवन, नया महरौली मार्ग, नई दिल्ली - 110016 GOVERNMENT OF INDIA MINISTRY OF SCIENCE AND TECHNOLOGY Department of Scientific and Industrial Research Technology Bhavan, New Mehrauli Road, New Delhi - 110016
सं0 टीयू/वी/आरजी-सी	डीई/ (1199)/2016	दिनांक: 17-03-2017
महोदय/महोदया,		
सं0 51/96 सीमा शुर तथा सरकारी अधिसू उत्पाद शुल्क छूट प्रा सार्वजनिक निधीयत संस्थान अथवा भारत	न्क दिनांक 23.7.1996 के अनुर वना सं0 10/97-केन्द्रीय उत्पाद प्त करने, जिसे समय-समय पर अनुसंधान संस्थाओं अथवा वि गीय विज्ञान संस्थान, बंगलौर उ	के संदर्भ में है जिसमें सरकारी अधिसूचना तार सीमा शुल्क/केन्द्रीय उत्पाद शुल्क छूट दिनांक 01.03.1997 के अनुसार केन्द्रीय संशोधित किया जाता है, के प्रयोजन से श्वविद्यालय अथवा भारतीय प्रौद्योगिकी अथवा क्षेत्रीय अभियांत्रिकी महाविद्यालय,
	के पंजीकरण/पंजीकरण के नवीक आपके संदर्भ तथा उपयोग के वि	रण का अनुराध किया गया ह। 1ए निम्नलिखित दस्तावेज संलग्न हैं:-
1. पंजीकरण		
2. नियम एवं	গর্ন	
		भवदीया,
		कामिनी मिश्रा)
		वैज्ञानिक - एफ/निदेशक
	2x ·	
		ż



Terms and conditions for registration of public funded research institutions, etc., other than a hospital for the purposes of availing customs/central excise duty exemption in terms of Govt. notifications no.51/96-customs dt.23.7.1996 and no.10/97-central excise dt.1.3.1997 as amended from time to time. The institution should acknowledge receipt of the registration letter by stating that they will abide by the terms 01. and conditions of registration. The registration would be valid for the period specified in the registration letter**. Request for renewal of 02 registration shall be made in the prescribed proforma, at least 3 months before the expiry of the valid registration. Applications received late may not be considered. ** However, certificate of registration is not valid for activities falling within the definition of 'hospital' as per notification no. 51/96-Customs dated 23.07.1996 and No. 10/97-Central Excise dated 01.03.1997 issued by the Department of Revenue. The institutions are cautioned to go through the notifications before availing duty exemptions under these notifications. Brief summary of the R&D activities, status of on-going projects and achievements of the institution shall be 03. submitted to the DSIR at the end of 5(five) years, in case of institution where validity of registration is 10(ten) years. This should include details related to papers published, patents obtained and processes developed, new products introduced, awards & prizes received and copy of the latest Annual Report. The institution should have a broad based research advisory committee (RAC), which should meet at regular 04. intervals for approving, guiding and monitoring the ongoing and future research projects. The institution should have separate budget for research. The institution should utilise the duty exemption facility 05. as per the above-mentioned notifications, for research purposes only. Non-research requirement such as the one for service activities, teaching, training, patient care, etc. should not be procured availing the facility. DSIR will not be responsible for any misuse of the duty exemptions facility using this certificate. 06. The onus of proving that duty exemptions has been availed for research purpose only lies with the Institution. The institutions should introduce a chapter in its Annual Report dealing with the research & development work. 07. This could contain the on-going research projects, achievements during the year, publications, patents if any, etc. The R&D income & expenditure should be separately shown in an annexure/schedule in the statement of accounts in the Annual Report. The registration will entitle the institutions to avail customs/excise duty exemption on purchase of equipment, 08. instruments, spares thereof, consumables etc. used for research & development subject to relevant Government policies in force from time to time. Such exemptions will have to be separately applied for in the prescribed formats. The institutions should also abide by the terms & conditions of the customs & central excise notifications issued/amended from time to time. In case of disposal/sale of R&D equipment, clearance from customs/excise authorities will also be required in 09. view of the applicable notifications under which the equipment was imported /purchased in India. The institution should submit half-yearly returns of the imports and domestic purchases in the month of January 10. and July every year in the proforma issued by DSIR along with details of items, their value & utilisation. Any violation of the terms & conditions mentioned above and/or provisions of taxation in force will make the 11. institution liable to de-registration. The institution will also conform to such other conditions for registration stipulated in the Guidelines, as may be 12. specifically provided in the registration letter and notices placed on department official website (http://www.dsir.gov.in) from time to time.

(Annexure-III)

FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: To, GST and other Taxes Quoted Unit rate in Rs. (Including Ex-Factory price, Description of goods excise duty, packing and forwarding, transportation, **Total Price** payable Sl.No. Qty. Unit insurance, other local costs incidental to delivery (with full Specifications) (A) In figures (B) In % and warranty/ guaranty commitments) **Total Cost**

Gross Total Cost (A+B): Rs.

We confirm that the normal commercial warranty/ guarantee of months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

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:

Address:

Contact No.:

Page **14** of **14**