

**TENDER FORM
FOR SUPPLY OF
SCIENTIFIC/LABORATORY INSTRUMENTS- EQUIPMENT, LED TV,
CONSUMABLE ITEMS-KITS, TRACTOR, SPRAY PUMPS, GIS SOFTWARE &
CHAIN LINK FENCING
AT DIFFERENT COLLEGES / UNITS / RESEARCH STATIONS /
DEPARTMENTS OF
ANAND AGRICULTURAL UNIVERSITY, ANAND**

Last date for online commercial bid submission
02-02-2018 before 6:00 pm

Last date for physical submission of technical bid
07-02-2018 before 5:00 pm

Date of Tender Opening (Technical Bid): **08-02-2018**



**DEPARTMENT OF AGRICULTURAL BIOTECHNOLOGY
ANAND AGRICULTURAL UNIVERSITY
ANAND – 388 110 (GUJARAT)
PHONE: 02692 261134
E-MAIL: biotech.aau@gmail.com**

➤ **Name of vendor / supplier / firm:**

➤ **Complete Postal address :**

➤ **Telephone Number :**

➤ **Fax Number :**

➤ **E-mail address :**

➤ **Details of the Tender Fee :**

- DD number :
- Amount :
- Date :

➤ **Details of EMD:**

- DD number:
- Amount:
- Date:

➤ **Sales Tax No.:**

➤ **Registration No.:**

➤ **Any other details:**

We agree to abide by the terms and conditions of supply mentioned in this tender document.

**Signature of Tenderer
(with stamp, Name & Designation)**

On behalf of The Director of Research, Anand Agricultural University, Anand, The Unit Officer, Department of Agricultural Biotechnology, AAU, Anand invite tender from Manufacturer or Authorized Distributor/Dealer through e-procurement portal for the purchase of following Scientific/Laboratory Instruments-Equipment, Tractor, Consumable Items – Kits, Spray Pumps, GIS Software and Chain Link Fencing with given specifications, terms and conditions.

Sr. No.	Name of the Instrument	Specifications	EMD (in Rs. Lakh)
PART-I: SCIENTIFIC/LABORATORY INSTRUMENTS - EQUIPMENT			
A. Centre for Advanced Research in Plant Tissue Culture, Department of Agricultural Biotechnology, AAU, Anand.			
1.	Gel Documentation System	<p>The system should be versatile so as to support a wide variety of applications like -</p> <p>Nucleic acid electrophoresis - Ethidium bromide, syber green etc.</p> <p>Protein gel electrophoresis - Silver stain, CBB stain etc.</p> <p>The system should meet below mentioned specifications:</p> <ol style="list-style-type: none"> 1. Camera/ Imaging system: <ol style="list-style-type: none"> a. The camera should have true 16 bit CCD camera. b. The pixel size should be at least 4.65 µm x 4.65 µm or bigger. c. Cooled CCD with cooling range atleast of -25°C. d. System should have high resolution CCD with >4 megapixel image resolution. e. Precalibrated focus for any zoom setting or sample height. f. Two user-defined modes (rapid or optimal auto-exposure) for all blot and gel imaging applications g. Dynamic; precalibrated and optimized for each application h. Minimum image area should be 24 x 32 cm (L x W) or better. 2. Software: <ol style="list-style-type: none"> a. System should have single software for imaging and analysis. b. The software should be capable of generating of customizable reports. c. Automatic and manual detection of lanes and bands using pre-installed algorithms. d. The software should be compatible with windows based computer systems. e. Software should be capable of recognizing and adjusting the imaging parameters like appropriate filters, light sources and camera settings. f. Multiple copies of licensed software at least 15 should be provided at no extra cost. g. Up-gradation or update of software or a module should be carried out at no extra cost. h. True Multi Platform file - save on one computer and analyser on another without loss of work. i. 3-D Viewer for critical analysis of closely spaced band. 3. Hardware: <ol style="list-style-type: none"> a. The system should be capable of handling nucleic acid and protein gels for which the system may have attachments like separate trays for nucleic acid and protein samples. 4. Other terms and conditions: <ol style="list-style-type: none"> a. A suitable genuine licensed computer or preferably laptop with pre-installed image analysis software is to be supplied at no extra cost. 	0.45

		<ul style="list-style-type: none"> b. A UPS with minimum one hour of back up should be provided with the system at no extra cost. c. Attachments / trays required for carrying out CBB, Silver and syber green staining are to be provided with no extra cost. d. Any consumables / attachments required for optimum functioning of system for one year should be supplied at no extra cost. e. 1-year standard warranty with extra one year comprehensive warranty is to be included with the system. f. Any problems during the standard warranty and extended warranty should be addressed within 72 hours. g. Specifications as mentioned above should be clearly mentioned on instrument brochure or a certificate from the manufacturing company for the same is to be attached. 	
B. Hill Millet Research Station, Muvaliya Farm, AAU, Dahod.			
2.	Mini Tractor with Trolley	<ul style="list-style-type: none"> 1. Power steering with hydraulic transport lock with engine unit power (18-22 HP). 2. Cylinder/ Displacement (CC) 2-4/ 900-1200 CC 3. Fuel capacity: 25-30 lit. with wet type air cleaner and aluminium radiator coolant reservoir. 4. PTO speed limit: 500-750 rpm with facility of multi spraying and lifting capacity: 650-750 Kg. 5. Wheel base (mm): 970mm with 4 WD drive (Rear Wheel) 8-9/ 14-20, (Front Wheel) 5-6/ 12-14. 6. Trolley Size: 4.5 X 6 X 2ft with four wheel and hydraulic lifting. 7. Free servicing and maintenance facility should be provided at Muvaliya farm up to 2 years. 	0.12
C. Main Maize Research Station, A.A.U., Godhra.			
3.	Knapsack Sprayers	<ul style="list-style-type: none"> 1. ASPEE company made 2. Model: ASPEE DURO TEKK Hi Tech (DR-200) 3. Suitable for sprayer on field crops and plantation. 4. Tank: H.D.P.E 5. Tank Capacity: 16 Ltr. 6. Pressure Vessel: H.D.P.E 7. Spray Lance/Lance Pipe: Bras Pipe with Trigger Cut off As per customer requirement. 8. L x W x H (in mm): 370 x 150 x 510 9. Weight: 4.5 Kg. (approx.) 10. Ergonomically designed rest comfortably on operator's back. 11. Pump is centrally blocked and easy for operation as balance is perfectly maintained. 12. Frame directly moulded to the tank. 13. Bigger faller hole with strainer allows filling spray solution without spilling. 14. Right or left hand operation. 15. 60 cm long extension rod one end bent as gooseneck and duro mist spray nozzle with stainless steel disc and 1 set of packing gasket. 16. Conforming to IS specification and with ISI mark. 17. Policy of warranty and guaranty describe very clear. 	0.15

D. Agricultural Research Station for Irrigated Crops, AAU, Thasra.

4.	TRACTOR - 45 HP	Required technical specifications of Tractor are as under:		0.21	
		Sr. No.	Item		Specification
		1	<u>Engine</u>		
		A	HP		45
		B	No. Of cylinders		4
		C	Displacement, CC		2979
		D	Air Cleaner		Dry type 6"
		E	Rated, rpm		2000
		F	Max Torque, Nm		178.68
		2	<u>Transmission</u>		
		A	Transmission type		Full Constant mesh
		B	No of Gears		12 F + 3 R
		C	Brake Type		Oil Immersed Brakes
		D	Main Clutch type		Single clutch dry friction plate (optional:-Dual clutch-CRPTO)
		E	Ground speed, kmph		1.45 to 30.61
		F	Reverse speed, kmph		2.5 / 5.8 / 11.2
		3	<u>PTO</u>		
		A	Max PTO HP		41.1 ± 5 %
		B	PTO rpm@ engine, rpm		540 @ 1810
		4	<u>Hydraulics</u>		
		A	Lift capacity at hitch, kg		1500
		5	<u>Steering</u>		
		6	<u>Fuel tank capacity, ltr</u>		
		7	<u>Dimensions</u>		
		A	Wheelbase, mm		1925
		B	Standard tractor weight, kg		2020
		8	<u>Tyre</u>		
		A	Front tyre, inch		6 × 16
		B	Rear tyre, inch		13.6 x 28 (Optional:-14.9 x 28)

E. SMC College of Dairy Science, AAU, Anand.

5.	Texture Analyzer	<p>I. The Texture Analyzer instrument with single load cell and frame Test speed programmable from 0.01 to 10mm/sec selectable</p> <p>II. Probe travel distance 0-100mm</p> <p>III. Operation on single phase 230v supply</p> <p>IV. Automatic overload protection electronically as well as mechanically</p> <p>V. USB software interface facility</p> <p>VI. Load range 10kg</p> <p>VII. Software with security features</p> <p>VIII. Data Acquisition rate 26PPM</p> <p>IX. Advanced Texture Pro-CT software to analyzer and compare various samples</p> <p>X. Graphical interpretation using software</p> <p>XI. Warranty 12 months</p> <p>XII. Compatible printer and PC</p> <p>XIII. Local service and after sales support in the region is preferable.</p> <p>Accessories required:</p> <p>XIV. Various probes for measuring texture of dairy products (Cheese, Butter, Cream, Paste, Paneer, Spread, Gels etc.)</p> <p>XV. Table for placing samples to test.</p>	0.21
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F. Department of Gynecology, College of VS & AH, AAU, Anand.

6.	Small Volume Spectrophotometer	Sr. No.	Details of Technical Specifications		0.28
		1	Sensitivity	2 ng/μL (dsDNA)	
		2	Uniformity	< 5% CV	
		3	24-well slide	Compatible with 8-channel pipettors	
		4	64-well slide	Compatible with 8- or 16-channel pipettors	
		5	Detection modes	Absorbance	
		6	Applications	DNA, RNA, Protein, ELISA and other spectrophotometric applications	
		7	Read methods	Endpoint, kinetic, spectral scanning, well area scanning	
		8	Microplate types	6- to 384-well plates	
		9	Minimum Volume capacity	2 micro liter (Must)	
		10	Cuvette	Capable of analysis using cuvette	
		11	Temperature control	Incubation to 40°C with Condensation Control + 0.2°C at 37°C	
		12	Software	Data Analysis Software	
		13	Absorbance		
		14	Light source	Xenon flash	
		15	Detector	Photodiode	
		16	Wavelength selection	Monochromator	
		17	Wavelength range	200 - 999 nm, selectable in 1 nm increments	
		18	Monochromator bandwidth	Maximum 10 nm	
		19	Dynamic read out range	0 - 4.0 OD	
		20	Resolution	0.001 OD	
		21	Monochromator wavelength accuracy	± 2 nm (1%)	
		22	Monochromator wavelength repeatability	± 0.2 nm	
		23	OD accuracy	0 to 2.0 OD ± 1% ± 0.010 2.0 to 2.5 OD ± 3% ± 0.010	
		24	OD linearity	0 to 2.0 OD ± 1% ± 0.010 2.0 to 2.5 OD ± 3% ± 0.010	
		25	OD repeatability	0 to 2.0 OD ± 1% ± 0.005 2.0 to 2.5 OD ± 3% ± 0.005	
		26	Stray light	0.03% at 230 nm	
			Physical properties		
		27	Power	220-240 Volts AC. 50/60 Hz	
		28	Shaking	Linear	

G. Department of Animal Genetics and Breeding, College of VS & AH, AAU, Anand.

7.	Illumina Kits – Reagents	Sr. No.	Cat. No.	Name of Kits	0.50
		1	FC-131-1024	Nextera XT DNA Sample Preparation Kit (24 samples)	
		2	FC-131-1096	Nextera XT DNA Sample Preparation Kit (96 samples)	
		3	FC-131-1001	Nextera XT Index Kit (24 indexes, 96 samples)	
		4	FC-131-1002	Nextera XT Index Kit (96 indexes, 384 samples)	
		5	RS-122-2101	TruSeq Stranded mRNA LT- Set A	
		6	FC-110-3001	PhiX Control Kit v3	
		7	MS-102-2001	MiSeq Reagent Kit v2 (50-cycles)	
		8	MS-102-2002	MiSeq Reagent Kit v2 (300 cycles)	
		9	MS-102-3003	MiSeq Reagent Kit v3 (600 cycles)	
		10	MS-102-3001	MiSeq Reagent Kit v3 (150-cycle)	
		11	RS-200-0012	TruSeq Small RNA Library Prep Kit -Set A (24 rxns) (Set A: indexes 1 -12)	

		12	RS-200-0024	TruSeq Small RNA Library Prep Kit -Set B (24 rxns) (Set B: indexes 13–24)
		13	RS-200-0036	TruSeq Small RNA Library Prep Kit -Set C (24 rxns) (Set C: indexes 25–36)
		14	TSRNA12924	TotalScript™ RNA-Seq Kit
		15	TSIDX12910	TotalScript™ Index Kit
		16	RS-301-2001	TruSeq RNA Access- Set A
		17	RS-301-2002	TruSeq RNA Access Library Prep Kit - Set B (12 indexes, 48 samples)
		18	FC-121-3001	TruSeq DNA PCR-Free LT- Set A
		19	FC-121-3002	TruSeq DNA PCR-Free LT- Set B
		20	FC-121-3003	TruSeq DNA PCR-Free HT
		21	FC-121-4001	TruSeq Nano DNA LT- Set A
		22	FC-121-4002	TruSeq Nano DNA LT- Set B
		23	FC-121-4003	TruSeq Nano DNA HT
		24	FC-132-1001	Nextera Mate Pair
		25	FC-126-1001	TruSeq Synthetic Long-Read DNA Library Prep kit
		26	FC-126-1002	TruSeq Synthetic Long-Read DNA Barcode kit (1 barcode plate)
		27	FC-126-1003	TruSeq Synthetic Long-Read DNA Barcode kit (4 barcode plate)
		28	FC-126-1004	TruSeq Synthetic Long-Read DNA Accessory kit
		29	IP-202-1012	TruSeq ChIP-Seq- Set A
		30	MS-102-2003	Miseq Reagent Kit v2 (500 cycles)
		31	FC-121-1030	Nextera DNA Sample Preparation Kit (24 samples)
		32	FC-121-1031	Nextera DNA Sample Preparation Kit (96 samples)
		33	FC-121-1011	Nextera Index Kit (24 indexes, 96 samples)
		34	FC-121-1012	Nextera Index Kit (96 indexes, 384 samples)
		35	PE-121-1003	TruSeq Dual Index Sequencing primer Kit, Paired End
		36	FC-131-2001	Nextera XT Index Kit V2 Set A (96 indexes, 384 samples)
		37	FC-131-2002	Nextera XT Index Kit V2 Set B (96 indexes, 384 samples)
		38	FC-131-2003	Nextera XT Index Kit V2 Set C (96 indexes, 384 samples)
		39	FC-131-2004	Nextera XT Index Kit V2 Set D (96 indexes, 384 samples)
		40	FC-130-1001	TruSeq Custom Amplicon kit (96 samples)
		41	FC-130-1003	TruSeq Custom Amplicon Index kit (96 indexes, 384 samples)
		42	RS-122-2001	TruSeq RNA Library Preparation kit v2, Set A (48 samples, 12 indexes)
		43	RS-122-2002	TruSeq RNA Library Preparation Kit v2, Set B (48 samples, 12 indexes)
		44	RS-122-2101	TruSeq Stranded mRNA Library Prep Kit, Set A (48 samples, 12 indexes)
		45	RS-122-2102	TruSeq Stranded mRNA Library Preparation Kit Set B (48 samples, 12 indexes)
		46	RS-122-2103	TruSeq Stranded mRNA Library Prep Kit High Throughput (96 samples, 96 indexes)
		47	FC-130-1007	TruSeq Index Plate Fixture and Collar Kit (2 each)
		48	FC-140-1000	Nextera Rapid Capture Exome (8 rxn x 1 plex)
		49	FC-140-1001	Nextera Rapid Capture Exome (2 rxn x 12 plex)
		50	FC-140-1002	Nextera Rapid Capture Exome (4 rxn x 12 plex)
		51	FC-140-1003	Nextera Rapid Capture Exome (8 rxn x 12 plex)
		52	FC-140-1083	Nextera Rapid Capture Exome (8 rxn x 3 plex)
		53	FC-140-1086	Nextera Rapid Capture Exome (8 rxn x 6 plex)
		54	FC-140-1089	Nextera Rapid Capture Exome (8 rxn x 9 plex)
		55	FC-140-1004	Nextera Rapid Capture Expanded Exome (2 rxn x 12 plex)
		56	FC-140-1005	Nextera Rapid Capture Expanded Exome (4 rxn x 12 plex)
		57	FC-140-1006	Nextera Rapid Capture Expanded Exome (8 rxn x 12 plex)
		58	FC-150-1001	TruSeq Exome Library Prep Kit (24 samples)
		59	FC-150-1002	TruSeq Exome Library Prep Kit (48 samples)
		60	FC-150-1003	TruSeq Exome Library Prep Kit (72 samples)
		61	FC-150-1004	TruSeq Exome Library Prep Kit (96 samples)

		62	FC-144-1000	TruSeq Rapid Exome Library Prep Kit (8 samples)	
		63	FC-144-1001	TruSeq Rapid Exome Library Prep Kit (24 samples)	
		64	FC-144-1002	TruSeq Rapid Exome Library Prep Kit (48 samples)	
		65	FC-144-1003	TruSeq Rapid Exome Library Prep Kit (72 samples)	
		66	FC-144-1004	TruSeq Rapid Exome Library Prep Kit (96 samples)	
		67	FC-140-1007	Nextera Rapid Capture Custom Enrichment Kit (48 samples)	
		68	FC-140-1008	Nextera Rapid Capture Custom Enrichment Kit (96 samples)	
		69	FC-140-1009	Nextera Rapid Capture Custom Enrichment Kit (288 samples)	
		70	FC-130-1006	TruSeq Custom Amplicon Filter Plate (1 plate)	
		71	FC-130-1007	TruSeq Index Plate Fixture and Collar Kit (2 each)	
		72	FC-121-9999	TruSeq FFPE DNA Library Prep QC Kit (24 samples)	
		73	FC-134-2001	TruSeq Custom Amplicon Low Input Kit (96 samples)	
		74	FC-134-2002	TruSeq Custom Amplicon Low Input Kit (16 samples)	
		75	IP-202-1012	TruSeq ChIP Library Preparation Kit - Set A (12 indexes, 48 rxns)	
		76	IP-202-1024	TruSeq ChIP Sample Preparation Kit - Set B (12 indexes, 48 rxns)	
		77	EGMK81312	TruSeq DNA Methylation Kit (12 reactions)	
		78	EGMK91324	TruSeq DNA Methylation Kit (24 reactions)	
		79	EGMK91396	TruSeq DNA Methylation Kit (96 reactions)	
		80	EGIDX81312	TruSeq DNA Methylation Index PCR Primers (10 reactions, 12 indexes)	
		81	RS-122-2201	TruSeq Stranded Total RNA Library Prep Kit with Ribo-Zero Human/Mouse/Rat Set A (48 samples, 12 indexes)	
		82	RS-122-2202	TruSeq Stranded Total RNA Library Prep Kit with Ribo-Zero Human/Mouse/Rat Set B (48 samples, 12 indexes)	
		83	RS-122-2203	TruSeq Stranded Total RNA Library Prep Kit High Throughput (96 samples, 96 indexes)	
		84	RS-122-2301	TruSeq Stranded Total RNA Library Prep Kit with Ribo-Zero Gold Set A (48 samples, 12 indexes)	
		85	RS-122-2302	TruSeq Stranded Total RNA Library Prep Kit with Ribo-Zero Gold Set B (48 samples, 12 indexes)	
		86	RS-122-2303	TruSeq Stranded Total RNA Library Prep Kit with Ribo-Zero Gold High Throughput (96 samples, 96 indexes)	
		87	RS-122-2501	TruSeq Stranded Total RNA Library Prep Kit with Ribo-Zero Globin Set A (48 samples, 12 indexes)	
		88	RS-122-2502	TruSeq Stranded Total RNA Library Prep Kit with Ribo-Zero Globin Set B (48 samples, 12 indexes)	
		89	RS-122-2503	TruSeq Stranded Total RNA Library Prep Kit with Ribo-Zero Globin High Throughput (96 samples, 96 indexes)	
		90	RS-122-2401	TruSeq Stranded Total RNA Kit with Ribo-Zero Plant, Set A (48 samples, 12 indexes)	
		91	RS-122-2402	TruSeq Stranded Total RNA Kit with Ribo-Zero Plant, Set B (48 samples, 12 indexes)	
		92	RS-122-2403	TruSeq Stranded Total RNA Kit with Ribo-Zero Plant, High Throughput (96 samples, 96 indexes)	
		93	RPHMR12126	TruSeq Ribo Profile for Mammalian (12 reactions, 12 indexes)	
		94	MS-103-1002	MiSeq Reagent Micro Kit v2 (300-cycles)	
		95	MS-103-1001	MiSeq Reagent Nano Kit v2 (300-cycles)	
		96	MS-103-1003	MiSeq Reagent Nano Kit v2 (500-cycles)	
8.	Ion Torrent Kit - Reagents	Sr. No.	Cat. No.	Name of Kits	0.50
		1	4471262	Ion AmpliSeq™ Cancer Panel Primer Pool	
		2	4475346	Ion AmpliSeq™ Cancer Hotspot Panel v2	
		3	4477685	Ion AmpliSeq™ Comprehensive Cancer Panel	
		4	4477686	Ion AmpliSeq™ Inherited Disease Panel	
		5	A26808	Precision ID Identity and Library Kit Bundle	
		6	A25642	Precision ID Ancestry Panel	
		7	A26807	Precision ID Ancestry and Library Kit Bundle	
		8	4479790	Ion AmpliSeq™ Sample ID Panel	

		9	4475345	Ion AmpliSeq™ Library Kit 2.0
		10	4480441	Ion AmpliSeq™ Library Kit 2.0
		11	4480442	Ion AmpliSeq™ Library Kit 2.0
		12	A27192	Ion AmpliSeq™ Exome RDY Kit 1x8
		13	A27193	Ion AmpliSeq™ Exome RDY Kit 4x2
		14	A29250	Ion AmpliSeq™ Pharmacogenomics Research Panel
		15	A29024	Ion AmpliSeq™ Kit for Chef DL8
		16	4482571	Ion AmpliSeq™ RNA Apoptosis Panel
		17	4482572	Ion AmpliSeq™ RNA Cancer Panel
		18	A26325	Ion AmpliSeq™ Transcriptome Human Gene Expression Kit
		19	A26326	Ion AmpliSeq™ Transcriptome Human Gene Expression Kit
		20	A26327	Ion AmpliSeq™ Transcriptome Human Gene Expression Kit
		21	4482335	Ion AmpliSeq™ RNA Library Kit
		22	4482340	Ion AmpliSeq™ RNA Library Kit
		23	4482752	Ion AmpliSeq™ RNA Library Kit
		24	4482437	Ion AmpliSeq™ Dynabeads® Cleanup Module
		25	4480974	Ion PGM™ Template OT2 200 Kit
		26	A27739	Ion PGM™ Hi-Q™ OT2 Kit
		27	4468656	Ion Sphere™ Quality Control Kit
		28	A25592	Ion PGM™ Hi-Q™ Sequencing Kit
		29	A25591	Ion PGM™ Wash 2 Bottle Kit
		30	4482006	Ion PGM™ Sequencing 200 Kit v2
		31	4471269	Ion Xpress™ Plus Fragment Library Kit
		32	4471252	Ion Plus Fragment Library Kit
		33	4474179	NEBNext® Fast DNA Fragmentation & Library Prep Set for Ion Torrent
		34	4474180	NEBNext® Fast DNA Fragmentation & Library Prep Set for Ion Torrent
		35	4474177	NEBNext® Fast DNA Library Prep Set for Ion Torrent 4
		36	4474178	NEBNext® Fast DNA Library Prep Set for Ion Torrent 4
		37	4477598	Ion Xpress™ Plus Fragment Library Kit for AB Library Builder™ System
		38	4477597	Ion Plus Fragment Library Kit for AB Library Builder™ System
		39	4477687	Ion Plus and Ion Xpress™ Plus Library Protocol Card for AB Library Builder™ System
		40	A26216	Ion 16S™ Metagenomics Kit
		41	4475936	Ion Total RNA-Seq Kit v2
		42	4479789	Ion Total RNA-Seq Kit v2
		43	4482416	Ion Total RNA-Seq Kit for AB Library Builder™ System
		44	4482563	Ion Total RNA Library Protocol Card for AB Library Builder™ System
		45	4475486	Magnetic Bead Purification Module
		46	4476340	Ion Plus Fragment Library Adapters
		47	4475485	Ion Xpress™ RNA-Seq Barcode 1-16 Kit
		48	4471250	Ion Xpress™ Barcode Adapters 1-16 Kit
		49	4474009	Ion Xpress™ Barcode Adapters 17-32 Kit
		50	4474518	Ion Xpress™ Barcode Adapters 33-48 Kit
		51	4474519	Ion Xpress™ Barcode Adapters 49-64 Kit
		52	4474520	Ion Xpress™ Barcode Adapters 65-80 Kit
		53	4474521	Ion Xpress™ Barcode Adapters 81-96 Kit
		54	4474517	Ion Xpress™ Barcode Adapters 1-96 Kit
		55	4482298	Ion Library Equalizer™ Kit
		56	4468802	Ion Library TaqMan™ Quantitation Kit
		57	A26217	Ion Universal Library Quantitation Kit
		58	4483324	Ion 316 Chip Kit v2 (8/pack)
		59	4484355	Ion 318 Chip Kit v2 (8/pack)
		60	G6610-02	E-Gel® SizeSelect™ Agarose Gels, 2%
		61	A29900	Ion PGM Hi-Q View OT2 Kit
		62	A30044	Ion PGM Hi-Q View Sequencing Kit
		63	4488149	Ion 316 Chip Kit V2 BC (8 Pack)
		64	4488150	Ion 318 Chip Kit V2 BC (8 Pack)

9.	Instrumentation Tutorial Console (Consisting Parts / Items mentioned in Sr. No. A to K)	Sr. No.	Name of Item	Specifications	0.12
		A	Displacement measurement using LVDT	a) Transducer: Linear variable differential transducer b) Measurement Range: 20mm (± 10 mm), c) Excitation Frequency: 4 KHz d) Sensitivity: 10m V DC /mm e) Display: 3 $\frac{1}{2}$ Digit LED with polarity indicator, Micrometer Scale 25mm	
		B	Load measurement Tutor using load cell	a) Load Cell of 3kg with 200mV output. b) ± 12 V D.C. at 100mA, I.C. regulated Power Supply. c) 5V D.C. at 100mA, I.C. regulated Power Supply. d) IC for comparison of Load Signal. e) DPM of 3 $\frac{1}{2}$ digit display for 3kg.	
		C	Pressure measurement tutor using Pressure Transducer.	a) Pressure Transducer : 0 to 100 psi, Differential input b) Pressure Gauge : 0 to 150 psi or more c) Pressure Vessel : 0 to 100 psi or more d) Safety Valve : 0 to 100 psi or more e) Valves : Non-returning valve & Manual valve f) Hoses: 1.5 m, g) Foot Pump : 0 to 150 psi or more	
		D	Measurement tutor using strain Cantilever Beam	a) Capacitive Transducer: 0 to 2 liters b) Level Measurement Range: 0 to 120 mm c) F-V Specification: 5 KHz to 50 KHz input, d) 0 to 5 V output V-I Specification: 0 to 5 VDC input, 4 to 20 mA, e) PC Interface : USB f) Capacitive Transducer, Precise Signal conditioning g) On board Digital Voltmeter, On board Indicators; Buzzer & LED, On board On / Off Controller.	
		E	Torque measurement tutor using torque transducer	a) Strain Gauge: 4 nos., b) Gauge factor – 2 or higher, c) Maximum bearable weight – 400 gms or higher, d) Cantilever material - stainless steel cantilever width -2.5 cm, cantilever thickness 0.16 cm, Cantilever length -20cm , e) Display : 3 $\frac{1}{2}$ Digit LED	
		F	Long Range Linear measurement tutor using potentiometer transducer	a) Load Cells 50Kg capacity 2No.s, 0.5 h.p. D.C.motor with pre-loaded pulley. Loading arrangement on the motor. Motor speed controller with an ammeter 0 to 2 amp. Signal conditioning unit Digital indicator. (3 & $\frac{1}{2}$ digit), Course and fine balance for both sensor channels.	
		G	Light measurement tutor using light sensor with Lux Meter	a) Linear displacement Measurement Range :0 to 15 mm b) Micrometer Scale : 25 mm c) Micrometer Least count : 0.01 mm d) Angular displacement :0 to 360 e) Measurement Range Input :5 V DC f) Linear output : 0 - 3V DC g) Angular output : 0- 5V DC h) Test Points :6 nos.	

		<table><tr><td>H</td><td>Temperature Measurement tutor using Thermocouple and Thermister and RTD</td><td>a) Transducers: a) Photoconductive cell b) Photovoltaic cell c) Phototransistor d) PIN Photodiode. b) Light source - Filament Lamp c) Signal conditioning: Circuitry Power Amplifier Current Amplifier, DC Amplifier, Comparator Electronic Switch, d) Buffer Input Circuits : Rotary & Slide Potentiometers e) Output Circuits : Moving Coil Meter , Relay LED , Lux Meter</td></tr><tr><td>I</td><td>Angular measurement tutor using angular sensor</td><td>a) A 360 pulses per revolution (PPR) optical encoder, 20 RPM d.c. motor (with gear train) b) 12 volt d.c. supply. push button pressed</td></tr><tr><td>J</td><td>PID controller tutor</td><td>a) Proportional Band: 5% to 55%. b) Integrator : 10 msec to 100 msec c) Derivative : 1 msec to 11 msec d) ON/OFF controller : ON = 12 V, OFF = -12 V e) On board Generator : Square wave & triangular wave f) Generator of 0 -156 Hz, Two Variable DC+6 V,+10 V</td></tr><tr><td>K</td><td>Universal PLC Platform</td><td>a) Open platform to explore wide PLC applications with HMI b) Toggle switches: 8, Push to ON switch: 5, Limit switch: 1,IR Sensor:1, LED's:8, Buzzer, DC Motor :1, Pilot Lamp : 1, Relay card : 1, c) Digital Input : 12,Digital Output : 8,Program Size : 4096 words, d) Interface : USB, Analog Input 4 CH , Analog output 2 CH e) HMI f) Supply : +24V DC,CPU : 32-bits 400MHz RISC, Storage : 128M FLASH + 64M DDRAM g) Display size : 7 inch, Resolution : 800×480 TFT LCD 65,536 colors h) Interface : RS232/RS485/RS422 Touch Screen : High precision four-wire resistive i) Expansion module : Expandable j) Movable Interfacing Machine : with Intel Core i5 , 4 GB DDR RAM , 500 GB HDD</td></tr></table> <p>Note: Vendor should quote single rate for this Instrument / Equipment.</p>	H	Temperature Measurement tutor using Thermocouple and Thermister and RTD	a) Transducers: a) Photoconductive cell b) Photovoltaic cell c) Phototransistor d) PIN Photodiode. b) Light source - Filament Lamp c) Signal conditioning: Circuitry Power Amplifier Current Amplifier, DC Amplifier, Comparator Electronic Switch, d) Buffer Input Circuits : Rotary & Slide Potentiometers e) Output Circuits : Moving Coil Meter , Relay LED , Lux Meter	I	Angular measurement tutor using angular sensor	a) A 360 pulses per revolution (PPR) optical encoder, 20 RPM d.c. motor (with gear train) b) 12 volt d.c. supply. push button pressed	J	PID controller tutor	a) Proportional Band: 5% to 55%. b) Integrator : 10 msec to 100 msec c) Derivative : 1 msec to 11 msec d) ON/OFF controller : ON = 12 V, OFF = -12 V e) On board Generator : Square wave & triangular wave f) Generator of 0 -156 Hz, Two Variable DC+6 V,+10 V	K	Universal PLC Platform	a) Open platform to explore wide PLC applications with HMI b) Toggle switches: 8, Push to ON switch: 5, Limit switch: 1,IR Sensor:1, LED's:8, Buzzer, DC Motor :1, Pilot Lamp : 1, Relay card : 1, c) Digital Input : 12,Digital Output : 8,Program Size : 4096 words, d) Interface : USB, Analog Input 4 CH , Analog output 2 CH e) HMI f) Supply : +24V DC,CPU : 32-bits 400MHz RISC, Storage : 128M FLASH + 64M DDRAM g) Display size : 7 inch, Resolution : 800×480 TFT LCD 65,536 colors h) Interface : RS232/RS485/RS422 Touch Screen : High precision four-wire resistive i) Expansion module : Expandable j) Movable Interfacing Machine : with Intel Core i5 , 4 GB DDR RAM , 500 GB HDD	
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10.	Water activity meter	The system / model quoted by the vendor should meet following technical specifications – 1. Measuring range : a. Temperature – 0 to 50 °C b. Water Activity – 0 to 0.98 aw 2. Should have USB interface for communication.	0.05												

11.	Clip on Meter	<p>The system / model quoted by the vendor should meet following technical specifications –</p> <table><thead><tr><th></th><th>Range</th><th>Resolution</th><th>Accuracy</th><th>Overload Protection</th></tr></thead><tbody><tr><td>DC Current</td><td>400 Amp</td><td>100 mA</td><td>±(2.5%+5D)</td><td>1000A DC/AC RMS</td></tr><tr><td></td><td>1000 Amp</td><td>1 A</td><td></td><td></td></tr><tr><td>AC Current</td><td>400 Amp</td><td>100 mA</td><td>±(2.5%+5D)</td><td>1000A DC/AC RMS</td></tr><tr><td></td><td>1000 Amp</td><td>1 A</td><td></td><td></td></tr><tr><td>DC Voltage</td><td>1000 V</td><td>1 V</td><td>±(0.8%+5D)</td><td>1000A DC/AC RMS</td></tr><tr><td></td><td>1000 V</td><td>1 V</td><td></td><td></td></tr><tr><td>AC Voltage</td><td>750 V</td><td>1 V</td><td>±(1.5%+5D)</td><td>750 DC/AC</td></tr></tbody></table>		Range	Resolution	Accuracy	Overload Protection	DC Current	400 Amp	100 mA	±(2.5%+5D)	1000A DC/AC RMS		1000 Amp	1 A			AC Current	400 Amp	100 mA	±(2.5%+5D)	1000A DC/AC RMS		1000 Amp	1 A			DC Voltage	1000 V	1 V	±(0.8%+5D)	1000A DC/AC RMS		1000 V	1 V			AC Voltage	750 V	1 V	±(1.5%+5D)	750 DC/AC	0.05
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I. Micronutrient Research Project (ICAR), AAU, Anand.																																											
12.	Double beam Flame Atomic Absorption Spectrometer (AAS) featuring a fully – integrated operational benchtop AA system	<ol style="list-style-type: none">1. Bidder should quote double beam Flame-atomic absorption (AA) spectrometer featuring a fully-integrated operational benchtop AA system.2. Optical System: Monochromator design should be Littrow design or equivalent with motorized drive for automatic wavelength selection and peaking for best performance.3. Monochromator system with a diffraction grating ruling density of atleast >1600 lines/mm blazed in both the UV and Visible regions.4. A focal length of minimum above 250 mm5. Spectral Bandwidths should be user selectable automatic slit widths of from 0.2 to 2.0 nm at their optimized slit height.6. Lamp selection: it should be automatic selection of 4-lamp mount with built-in power supplies.7. Detector: Photomultiplier Tubes (PMT) or Solid State Detector with Wavelength range: 185 – 900 nm8. Background Correction should be Built-in continuum source double-beam background correction using a high-intensity deuterium arc lamp.9. Corrosion Resistance: All the PCBAs are conformal coated for complete resistance to corrosion.10. Gas Controls : Software controlled flame ignition and automatic changeover of oxidant flow from acetylene to nitrous oxide when switching to or from air-acetylene to nitrous oxide - acetylene flame. Fully software controlled oxidant and fuel gas flow monitoring.11. Sample Introduction System12. AAS should have modular sample introduction system consisting of a quick-change spray chamber, burner head and nebulizer.<ol style="list-style-type: none">12.1. The introduction system is equipped with a high-strength inert mixing chamber, angled to ensure proper drainage.12.2. It should have choice of high-sensitivity, corrosion-resistant, plastic nebulizer or durable stainless steel nebulizer.12.3. System should offer with the standard burner head is all-titanium, 10 cm, single-slot for air/acetylene operation.12.4. The flame shield should be polymer-coated for resistance to corrosion from acidic fumes from the environment or from the samples.13. All safety interlocks built-in and additional feature like Burner Head Interlock, Nebulizer/End Cap Interlock, and Drain Interlock to be built-in.14. Sensitivity: Greater than 0.7 absorbance with the precision of <0.5% RSD from 5 second integrations for 5 ppm Cu standard.15. AA system should be offered with suitable computer/touch screen and require accessories	0.30																																								

13.	Arc GIS Desktop Advance version 10.5 or latest	<p>Arc GIS Desktop Advance version 10.5 or latest</p> <ol style="list-style-type: none"> 1. Arc GIS desktop Advance alongwith 03 License 2. The system should contain following Extensions <ol style="list-style-type: none"> 2.1 3D Analyst 2.2 Spatial Analyst 2.3 Network Analyst 2.4 Geo-Statistical Analyst 2.5 Arc Scan 2.6 Arc GIS Data Interoperability 2.7 Arc Schematics 2.8 Arc Publisher 	0.36
J. College of Food Processing Technology & Bio-Energy, AAU, Anand.			
14.	FFS Machine	<p>Form Fill Seal (FFS) packaging machine</p> <p>Microprocessor controller based two head linear weigher vertical form, fill & seal to pack machine for various food products like namkeens, extruded snacks, and other granular materials. The system should be suitable for all types of packaging films. It should have following specifications:</p> <p>No of Heads: Two Range of package: 100 g to 800 g Range of production capacity: 12 to 20 packages per minute (depending upon fill weight of product) Type of sealing: central as well as top/bottom Type of pouches/sachets: pillow type Accuracy: $\pm 1\%$ - 2% Material contact parts: SS 304</p> <p>The system should be complete in all respect all set of spares or change parts like collar, pneumatic coding device, cutting blades etc. with about 100 kg of test packaging rolls for different pouch size, with eye mark at appropriate repeat length, inclusive of installation, testing and commissioning with training.</p>	0.20
15.	<p>Rheometer</p> <p>(Tender Fee for this item is Rs. 2,500.00)</p>	<p>A modular rheometer for the characterization of various food dispersions, low-viscosity liquids to highly elastic solids, for various traditional rheological tests. It should have following features</p> <p>Operation Mode: stress control, shear rate control and direct strain controlled oscillation at demand strain amplitude. A pure Sinusoidal Waveform at all times must be ensured irrespective of the Strain imposed.</p> <p>Bearing: Air Bearing system to ensure lowest radial drag & highest axial stiffness.</p> <p>Motor Torque: The torque motor must be of the drag-cup type / brushless DC motor and the entire air bearing and motor assembly must have inertia of less than or equal to 20 microN.m.s² to allow rapid transient change of strain, speed and measurement at high frequency with minimal correction for instrument inertia. There should be a standard test available in the system to calculate the motor inertia without applying any corrections & should be demonstrated during the tender process.</p> <p>Torque range (Viscometry): 10nNm to 200mNm Torque range (Oscillation): 2 nNm to 200 mNm Torque resolution: 0.5 nNm Frequency range: 10μrad/s⁻¹ to 628rad/s⁻¹ (1μHz to 100Hz) Position resolution: <10nrad</p>	1.00

		<p>It should have Angular Velocity range from 10rads⁻¹ to 300rads⁻¹ Normal force range: 0.005 to 50 N (or more) Normal force resolution: 0.5 mN It should have automatic gap setting over full vertical lift range. Thermal Unit: The rheometer should be supplied with a temperature control unit using Peltier temperature control system. It should control temperature range from -5°C to +200°C continuously with resolution of 0.01°C. The temperature control system should have a hood with preferably Peltier devices to facilitate complete enclosure of the sample environment and gradient free sample temperature settings. The TCU should be able to accommodate plate-plate, cone & plate systems & other geometry of plates as given below Accessories The following geometries of the upper plate should be offered for plate-plate measurement system: Plate 20 mm Dia: 1 No. Plate 50 mm Dia: 1 No. Plate 20 mm Dia: 1 No. with roughed surface finish along with similar Lower Plate finish. The following geometries of the upper cones should be offered for cone-plate measurement system: Cone 1°/50mm: 1 no. Rheology software: Raw instrument variables: The Normal Force / Thrust data must be available at 5kHz data rate to allow for Rheological analysis The rheology software should be able to perform measurements for All raw data measured by the instrument like harmonic distortion, phase angle etc. should be available in the software Viscosity: as a function of time, temperature and shear rate and yield stress measurements. Oscillation measurement: with respect to time, temperature, frequency and amplitude Transient Measurements: like Creep/Creep recovery measurement and stress relaxation measurements Large Amplitude Oscillatory Measurement like Time-Temperature superposition for generating master curve analysis Software for measurement of Normal Force & Velocity Profiles for Tack & Squeeze experiments should be available in the software. Appropriate air compressor, necessary tool kit with the main instrument to operate the quoted rheometer, Desktop PC having core i-7 processor, 4 GB RAM and 1 TB harddisk, 19" LCD Monitor with licensed version of windows along with suitable color laser jet printer. The system should be complete with all accessories for measurement of solid, liquid and paste type of food products. Warranty: The quoted instrument should have a warranty of at least 3 years from the date of installation. Documentation: All Claims made by the vendor with regards to the above specifications should be supported by specification sheets / brochures / data available on company website. No claims with regards to laboratory data will be accepted.</p>	
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16.	Laboratory Hydrogen Peroxide Generator	<p>Automated hydrogen peroxide generator suitable for bio-decontamination with additional accessories having following specifications:</p> <ul style="list-style-type: none"> • It should be efficient, light weight and able to reduce microbial load • It should have residue free operation with non-clogging nozzles which can generate ultra-fine vapour. • It should have large area of coverage with automatic dosing • Solution tank (not less than 5 lit) should be of robust material preferably stainless steel • Should have operating adjustable valves for controlled release • The filter and other parts should be easily cleanable. • Power supply 220V / 50Hz <p>The system should be complete in all the respect include auto timers, metering valve for flow rate control, turn tables for rotation, Portable Trolley made of SS 304 for mounting and the other necessary accessories, installation and commissioning, testing and training. It should comprise of all cables/ chords, bottles and all other hardware and accessories for a working configuration;</p> <p>Additionally, the system should be supplied with two standard 304 SS; 20 L water bath having temperature range from 5°C above ambient to 100°C. The water bath must ensure safety features include high-temperature cut-off and acoustic alarms.</p> <p>The system to be supported with on-site operational training and in-house application training; It should have onsite comprehensive warranty of 3 years.</p> <p>Single price quote in Indian rupees for above hydrogen generator with additional accessories as specified.</p>	0.07
K. Castor & Seed Spices Research Station, AAU, Sanand.			
17.	ચેઇનલીંક ફેન્સીંગ (Chain Link Fencing)	<p>અંદાજિત ૭૨૦ મીટર ચેઇનલીંક ફેન્સીંગ (વાડ) કરવા માટે પ્રતિ રનીંગ મીટર ના ભાવ મંગાવવામાં આવે છે.</p> <p>(મટીરીયલ અને લેબર ચાર્જના ભાવ ઓન-લાઈન પ્રાઈસ બીડ માં જણાવ્યા મુજબ (પ્રતિ રનીંગ મીટર) અલગ અલગ દર્શાવવાના રહેશે)</p> <p><u>ફેન્સીંગ કરવા માટે નીચે મુજબનું મટિરિયલ વાપરવાનું રહેશે.</u></p> <ol style="list-style-type: none"> 1. <u>લોખંડની એંગલના ફેન્સીંગ પોલ:</u> સાઇઝ – ૫૦ × ૫૦ × ૬ એમ.એમ., (ભિંચાઈ ૮ ફૂટ) (કલર કામ સાથે) + કોંક્રીટ ગ્રેડ – એમ ૩૦ 2. <u>ફેન્સીંગ માટેની જાળી:</u> તારનો ગેજ – ૧૦ (૩ એમ.એમ.) (ગેલ્વેનાઇઝ અને કાટરહીત) + જાળીની પહોળાઈ - ૬ ફૂટ + જાળીની સાઇઝ – ૩ ઇંચ 3. <u>પોલનું ફીટીંગ:</u> ૧.૫' ફૂટ ઊંડા અને ૮' × ૮' પહોળા ખાડા કરીને પોલને ૧:૨:૪ નું કોંક્રીટ કરી ફિક્સ કરવાના રહેશે. + બે પોલ વચ્ચેનું અંતર ૮' ફૂટ રાખવાનું રહેશે. 4. <u>જાળીનું ફીટીંગ:</u> જાળીને ૨ એમ.એમ. ના ગેલ્વેનાઇઝ તારની મદદથી પોલ સાથે ફીટ કરવાની રહેશે. 	0.15

L. Main Maize Research Station, AAU, Godhra.

18.	LED TV	<p>LED TV ought to have following technical specifications:</p> <ol style="list-style-type: none"> 1. TV Type: LED TV 2. Display: Screen Size (Diagonal): 65 inch 3. Screen Resolution: 3840 x 2160 - Ultra HD 4. Display Type: Ultra HD 5. It should have HDR (High Dynamic Range) 6. Picture: Resolution: 4K HDR 7. 4K Processor: X1 Extreme 8. Picture Processing Engine: 4K- X-Reality Pro 9. Wider Colour Reproduction: Triluminus Display 10. Dynamic Range of Brightness: X-tended Dynamic Range Pro 11. Backlight Drive: Slim backlight Drive + 12. Sound: Speakers: Clear Audio + (front face 3 way speaker) 13. Speaker Output (RMS): 10 + 10 + 10 + 10 + 10 + 10 W 14. Platform: TV Operating System , Android-Google Play-Voice Search-Serial AbTak-Program Guide-TV Music Box 15. TV should have minimum 3 no. of USB ports and 4 no. of HDMI ports. 16. For connectivity with TV , It should have - Audio Jack, Media Sharing Features like Photo sharing Plus- Screen mirroring and should offer additional connectivity features like - RF (TERRESTRIAL/CABLE) Connection Input, Chromecast built-in, DMI-CEC, Digital Audio Output, Connect to Home Theatre via: HDMI, Connect to Computers via: HDMI, Connect to Set-top Box via: HDMI, Composite (AV), Component (yp/pb/pr), Connect to DVD Players via: HDMI, Composite (AV), Connect to Consoles via: HDMI, Component (y/pb/pr); 17. It should have Ethernet connectivity and WiFi connectivity for ease with internet connection. 17. Power Consumption: Power Consumption: 273 W, Standby Power Consumption: 0.5 W 18. Additional Features: Stream from Phone/Tablet/Laptop: Yes, 19. Warranty: Minimum 12 Months 	0.12
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: Terms & Conditions:

- i. E-tendering procedure of two bid system i.e. financial and technical should be followed for quoting the rates / bidding for items.
- ii. This tender document / form may be procured / downloaded from (n)Code Solutions website www.nprocure.com as well as from university 's website www.aau.in/tenders from **13-01-2018 upto 02-02-2018, 04:00 P.M.**
- iii. The financial bid / quotation rates / bidding rates for these instruments / equipment consumable item(s) has/have to be uploaded / submitted electronically through [<www.nprocure.com>](http://www.nprocure.com) only on or **before 02-02-2018 6:00 P.M.** Vendors should not mention quoted price anywhere in technical bid.
- iv. **The price quoted should be inclusive of all kinds of taxes, transportation, installation and commissioning at respective locations of the university and should be valid upto 31st December, 2018.**
- v. **It mandatory to mention HSN (Harmonized System of Nomenclature) code of respective item in technical bid.**
- vi. In case of foreign manufactured equipment / goods the **CIP, Anand** rates be quoted in foreign currency which will be paid by Demand Draft of respective foreign currency. The rate quoted should be inclusive of other local charges like agency commission, clearing charges, transportation from port, insurance etc.
- vii. If the rates are quoted in foreign currency, for conversion in INR exchange rate available on RBI's website on the date of opening of commercial bid of the tender shall be considered for comparison.
- viii. No change, addition, alteration in the tender rates on omission / misunderstanding / mistake or any other reasons would be permitted.
- ix. The University is authorized for exemption in Custom Duty / Excise Duty and accordingly the custom duty exemption certificate, if applicable, will be provided by the University to successful bidder.
- x. The total cost must be inclusive of all intended accessories.
- xi. **The hard copy of the technical bid should be addressed to "The Unit Officer, Dept. of Agricultural Biotechnology, Anand Agricultural University, Anand – 388 110".**
- xii. **Technical bids for each item should be dispatched in separate envelopes alongwith all necessary documents and DD for Tender Fee and separate EMD for each item.**
- xiii. **The hard copy of the technical bid should reach this office latest by 07-02-2018 upto 05:00 P.M. in sealed cover superscripted "Technical Bid for _____" by Registered Post / Speed post only. The technical bid/documents sent through courier or any other mode will not be accepted.**
- xiv. **Tender Fee (Non-Refundable):** Tender fee is Rs. 1,500/- for all items except for item mentioned at sr. no. 15 i.e. Rheometer for which Tender fee is Rs. 2,500.00. Vendor quoting for multiple items of the tender may submit single DD of cumulative amount, but not exceeding Rs. 15,000/- and should be paid in the form of Demand Draft (DD) only, in the favour of "Anand Agricultural University Fund Account" payable at Anand.
- xv. **Earnest Money Deposit (EMD):** EMD amount should be paid item-wise separately as mentioned in the tender document. It may be paid in form of either DD or Pay Order or Bank Guarantee issued from any Nationalized Bank or banks mentioned in GR of Finance Department, GR No.: EMD/10/2016/328/DMO, Dated 01-05-2017 in the favour of "Anand Agricultural University Fund Account".

Note: *The vendor/bidder quoting for multiple items of the tender ought to submit EMD amount separately for each item. Single DD/Pay Order/Bank Guarantee of cumulative amount will not be accepted.*

- xvi. **DD of Tender Fee and DD/Pay Order/Bank Guarantee of EMD have to be scanned and uploaded online.** The original documents of Tender Fee & EMD have to be submitted along-with the technical bid to "The Unit Officer, Dept. of Agricultural Biotechnology, Anand Agricultural University, Anand – 388 110".
- xvii. Earnest Money Deposit (EMD) will be refunded to unsuccessful bidders after the deal is finalized. However, the same will be refunded to the successful bidder only after submitting required security deposit for respective items. If EMD is paid in form of Bank Guarantee, it will be refunded after six months only.
- xviii. **Bidder should give specification compliance statement point wise showing / highlighting items part no., serial no. as quoted in their quotation for comprehensive technical comparison. Proof of compliance should be mentioned point wise in the catalogue. Failing in compliance and proof of compliance may cause cancellation of the bid without any further notice.**
- xix. Valid Manufacturer's / Distributorship's / Dealership's certificate from the principle for the year 2017-18 must be submitted along with quotation.
- xx. Bidder should have a turnover of atleast 50% of the cost of the item for which vendor is bidding during any one of the last two years. The necessary documents related to turnover during last two years be submitted alongwith the technical bid.
- xxi. A copy of the supporting document like, Tin No., PAN No., etc. of the vendor should be enclosed with the quotation / tender.
- xxii. **Product quality certification issued by Quality Council of India (QCI), BIS or any other government approved body should be submitted alongwith the technical bid as preference for procurement may be given to such firm / company for respective items.**
- xxiii. For imported goods, product quality certificate issued by BIS under FMCS should be submitted. If certification is not provided by BIS then certification issued from internationally acclaimed agency shall be considered.
- xxiv. Those quotations will not be considered for financial bid opening which does not conform to given specifications for respective instrument / item and terms and conditions.
- xxv. The vendor should invariably sign the quotation, general terms and conditions and must be submitted in original.
- xxvi. Necessary items like UPS, Air Conditioner, Computer etc. of suitable capacity, if essentially required, for proper operation of the scientific instrument/equipment must be supplied by the vendor at no additional cost.
- xxvii. As far as possible the technical literature should be furnished along with the quotation.
- xxviii. If any query to the quotation is raised, a written reply must reach this department within specified period through letter / email or as suggested, else the quotation shall be treated as cancelled.
- xxix. All quotations and correspondences should be addressed by designation only and not by name.
- xxx. The supply should be made within the stipulated time as mentioned in the purchase order followed by installation.
- xxxi. The equipment should be installed by the service engineer of the vendor at our site free of cost and the working should be demonstrated including training.
- xxxii. No advance or part payment against the ordered goods will be made till the full order placed is satisfactorily executed.
- xxxiii. List of users of your product and their opinion may also be sent along with their phone number/(s).

- xxxiv. **Warranty:** The standard warranty should be provided for respective items. However, items where warranty period is mentioned in the specifications shall be considered as standard warranty period.
- xxxv. **Training:** Training shall be provided free of cost by the vendor for each instrument quoted, if so desired by the indenter.
- xxxvi. **Security Deposit:** The successful bidder has to deposit 5% of invoice value in the University fund account prior to issue of purchase order by the University/Concerned department/College. This money will remain deposited in University as security deposit till standard warranty period is over or till complete supply of goods in case of consumable items.
- xxxvii. The security deposit in favour of “Anand Agricultural University Fund Account” may be submitted in form of either DD or Pay Order or Bank Guarantee issued by Nationalized Bank or Banks mentioned in GR of Finance Department, GR No.: EMD/10/2016/328/DMO, Dated 01-05-2017
- xxxviii. Rights are reserved with the undersigned to vary number of units, accept the quotation fully or partially and shall not be bound to give reasons for rejecting the whole or part of the quotation.
- xxxix. Quotations/ tenders without Earnest Money Deposit (except from parties exempted for the purpose) for specific item will not be considered.
- xl. Losses/damage of the instrument in transits, if any, shall be at the risk of the vendor / supplier
- xli. If the demurrage charges occur due to delay in sending the document/air cargo receipt, the amount of the demurrage will be borne by the vendor / supplier.
- xl. All provisions as mentioned in the Gujarat State Purchase Policy – 2016, if admissible shall be made available to the vendors.
- xlii. The technical bid will be opened on **08-02-2018** (tentative) at 10:00 A.M. for scrutiny followed by commercial bid opening either on the same date or any other next date of completion of technical scrutiny.
- xliii. In the event of the dispute regarding any matter related to acceptance or rejection of tender or consideration of tender for purchase order, decision of Director of Research or Dean Faculty of PG students of Anand Agricultural University, Anand – 388 110, Gujarat or person /persons authorized by him shall remain final.
- xliv. For all legal matter court jurisdiction shall be “Anand”, Gujarat.

Sd/-

Unit Officer

Department of Agricultural Biotechnology
Anand Agricultural University
Anand 388 110

Note: To be returned with the quotation duly sealed and signed by the vendor as acknowledgement of acceptance of the terms and conditions otherwise the quotation will be considered as disqualified.

Signature of Vendor

(Rubber Stamp, Address & Phone No.)

Place:

Date:

C H E C K L I S T

(Documents to be submitted physically in Technical Bid)

Sr. No.	Check List Documents	Remarks
1	Tender Fee in form of Demand Draft as applicable (Non-Refundable)	Mandatory
2	EMD amount in form of either Demand Draft / Pay Order / Bank Guarantee Item-wise as applicable (Refundable)	Mandatory
3	Signed & Stamped Tender Document	Mandatory
4	Copy of GST Registration	Mandatory
5	Firm / Company Registration attested copy	Mandatory
6	Authorization Letter from OEM	Mandatory
7	Technical specification point-wise compliance statement	Mandatory
8	Copy Permanent Account Number of the bidder firm.	Mandatory
9	Copy of TAN of the bidder firm.	Mandatory
10	Last two (2) financial year's Income Tax returns of the bidder firm.	Mandatory
11	An affidavit / declaration on non-judicial stamp paper of Rs.100/- duly attested by Notary Public	Mandatory
12	Product quality certificate issued by QCI / BIS etc.	Preferable
13	User List / Opinion of users for respective items	Preferable
14	Product catalogue / literature etc.	Preferable

(TO BE SUBMITTED PHYSICALLY)

AFFIDAVIT

(To be submitted **IN ORIGINAL** on Non-Judicial Stamp Paper of Rs. 100/- duly attested by First Class Magistrate/ Notary public)

I/We, _____, age _____ years residing at _____ in capacity of _____ M/s _____ hereby solemnly affirm that

1. All General Instructions, General Terms and Conditions, as well as Special Terms & Conditions laid down on all the pages of the Tender Form, have been read carefully and understood properly by me which are completely acceptable to me and I agree to abide by the same.
2. I/We have submitted following Certificates / Documents for T.E. as requires as per General Terms & Conditions as well as Special Terms & Conditions of the tender.

Sr. No.	Name of the Document
1	
2	
onwards	

3. All the Certificates / Permissions / Documents / Permits / Affidavit are valid and current as on date and have not been withdrawn / cancelled by the issuing authority.
4. It is clearly and distinctly understood by me that the tender is liable to be rejected if on scrutiny at any time, any of the required Certificates / Permissions / Documents / Permits / Affidavits is / are found to be invalid / wrong/ incorrect / misleading / fabricated / expired or having any defect.
5. I/We further undertake to produce on demand the original Certificates / Permissions / Documents / Permits for verification at any stage during the processing of the tender as well as at any time asked to produce.
6. I/We also understand that failure to produce the documents in "Prescribed Performa" (wherever applicable) as well as failure to give requisite information in the prescribed Proforma may result in to rejection of the tender.
7. My/Our firm has not been banned / debarred / black listed at least for three years (excluding the current financial year) by any Government Department / State Government / Government of India / Board / Corporation / Government Financial Institution in context to purchase procedure through tender.
8. I/We confirm that I/We have meticulously filled in, checked and verified the enclosed documents / certificates / permissions / permits / affidavits / information etc. from every aspect and the same are enclosed in order (i.e. in chronology) in which they are supposed to be enclosed Page numbers are given on each submitted document. Important information in each document is "highlighted" with the help of "marker pen" as required.
9. The above certificates/ documents are enclosed separately and not on the Proforma printed from tender document.

10. I/We say and submit that the Permanent Account Number (PAN) given by the Income Tax Department is _____, which is issued on the name of _____ [Kindly mention here either name of the Proprietor (in case of Proprietor Firm) or name of the tendering firm, whichever is applicable]
11. I/We understand that giving wrong information on oath amounts to forgery and perjury, and I / We am/are aware of the consequences thereof. In case any information provided by us are found to be false or incorrect, you have right to reject our bid at any stage including forfeiture of our EMD/PBG/cancel the award of contract. In this event, this office reserves the right to take legal action on me/us.
12. I/We have physically signed & stamped all the above documents along with copy of tender documents (page no. _____ to _____)
13. I/We hereby confirm that all our quoted items meet or exceed the requirement and are absolutely compliant with specification mentioned in the bid document.
14. My/Our Company has not filed any Writ Petition, Court matter and there is no court matter filed by State Government and its Board Corporation, is pending against our company.
15. I/We hereby commit that we have paid all outstanding amounts of dues / taxes / cess / charges / fees with interest and penalty.
16. In case of breach of any tender terms and conditions or deviation from bid specification other than already specified as mentioned above, the decision of Tender Committee for disqualification will be accepted by us.

Whatever stated above is true and correct to the best of my knowledge and belief.

Date:

Stamp & Sign of the tenderer

Place:

(Signature and Seal of the Notary)