



**Date of Issue: 30.09.2022**

**Tender No: JISCE-IDEA Lab/Admin/Tender /2022-23/01**

**Due date: - 15.11.2022, Time: - 5:00 PM**

**Technical bid opening date: - 17.11.2022, Time: - 11:30 am**

## NOTICE INVITING TENDER

On behalf of JIS COLLEGE OF ENGINEERING (JISCE), Kalyani sealed bids are invited from eligible bidders for Supply of AICTE IDEA LAB Equipment. The list of equipment and their specifications are as Tables 1,2& 3.

Any Supplier of Laboratory/Scientific/Process Control/Industrial equipment having turnover of Rs. 25 lakhs (Rupees Twenty-five lakhs) in each of the last three years i.e., 2019-20, 2020-21 & 2021-22 as per P&L audited statement of Accounts are eligible to bid for Supply of IDEA LAB (Applicable for Table-1)

**Table 1: List of Equipment/ Machine with detailed specifications under this tender**

Item No.	Equipment/Item Name	Specifications	Quantity	
1.1	3D Printer (FDM)	Build Volume (mm x mm x mm)	1	
				500 x 500 x 500
		No. of Extruders		2 (dual)
		Nozzle Temp (°C)		As applicable
		Bed Temp (°C)		As applicable
		Filament Drying Chamber (°C)		As applicable
		Supported Materials		PLA, ABS, Carbon Fiber, Wood, Nylon, PC, PETG, HIPS, PP, Flexible, TPU, PVA, ULTEM, PEEK, Clay, Acrylic, PCB, Biocompatible
		Nozzle Sizes (mm)		As applicable
		Printing Speed (mm/s)		50-200 mm/s
		Operating Control		Touch Screen with Multi-language
		Connectivity		USB, LAN
		Max Power		As applicable
		Supported Files		STL, OBJ, AMF
Build Plate	Borosilicate glass bed			
Power Backup	10 kVA			
1.2	3D Printer (SLA)	Connectivity	1	
				USB Technology, LCD-based SLA
		Light source		high-quality filament wavelength 405nm
		Build Volume (mm x mm x mm)		500 x 500 x 500
		Layer Thickness		25 – 300 micron
		X-Y Resolution		25 micron
		MAX Printing Speed		60mm/h
		Material		Biocompatible, Engineering
Post processing units	Curing Unit, Washing Unit			
1.3	3D Scanner	Scan Accuracy	1	
		Should have accuracy up to 0.05mm		



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		Scanner Should have Handheld HD Scan & Fixed Mode & Rapid Mode, Auto Mode to scan different engineering objects or components.	
		Volume Accuracy	Should be min 0.3mm/m with specific Alignment System.
		Scan Speed	10 fps
		Automatic Turn Table + Tripod Stand	Included (for scanning objects)
		Point Distance	Should be in between 0.2mm-2mm
		Single scan range	Min 200*160mm
		Resolution	40 micron-100 micron
		Depth of Field	±100 mm
		Align Mode	Marker Alignment, Feature Alignment, Turntable coded Target, Hybrid Alignment
		Texture Scan	Yes with add on: Colour Pack.
		Output	STL, OBJ, ASC, PLY, DWG
		Software Included	1. Should include Scanner operating software to show the real time scanning during operation and point cloud generation. 2. Bidder must supply the reverse engineering software with the scanner free of cost with perpetual license.
		Multi Pose Alignment	Yes
1.4	CNC Wood Router	Axis Travel (min)	X = 1300 mm, Y = 2500 mm, Z = 200 mm
		Axis Motion	X = Rack & Pinion (25 mm) Y = Rack & Pinion (25 mm) Z = Ball Screw (25 mm)
		Axis Driver	Servo Motor with Driver
		Maximum Traveling Speed	20000 mm/min
		Axis Slider	X = Linear Motion Guide Y = Linear Motion Guide Z = Linear Motion Guide
		<b>SPINDLE MOTOR SPECIFICATIONS</b>	
		Power	6.0 Kw / 3.5 Kw
		Max. Speed	18000 rpm
		Cooling	Air Cooling
		Drive	VFD Speed Control
		Spindle Company	HQD/ Triquench/ Kuvam
		Collet Size	Er-32 / Er-25
		Max. Tool Diameter	20 mm
		Oil Lubrication System (for Guide)	Standard Oil Pump With Lever
		Structure Of Bed	Heavy Structure Made of Mild Steel
		Automatic Dust Collector	Double Bag Single Phase.



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		Electric Voltage Stabilizer	Compatible Electric Voltage Stabilizer	
1.5	PCB Milling Machine	Minimum pattern width (mm)	0.1 (4 mil)	
		Minimum milling width (mm)	0.1 (4 mil)	
		Working area (X/Y/Z) (mm) (minimum)	230 x 300 x 50 (9.0" x 12" x 2")	
		Table size (X/Y) (mm)	300 x 370 (12" x 15")	
		Control axis	X, Y, Z	
		Control motor	Servo Motor	
		Resolution (µm)	0.156 (0.00614 mil)	
		Spindle speed (RPM)	minimum 40,000	
		Spindle motor	DC Brushless Spindle	
		Drilling (mm)	0.2 - 3.175 (8 - 125 mil)	
		Maximum drilling cycle (cycles/min.)	50	
		Maximum thickness of processed material (mm)	10 (0.4")	
		Tool change	Automatic / minimum 5 nos	
		Compressed air supply	Compatible air Compressor with accessory	
		Interface	USB	
		1.6	Soldering/ Desoldering/ Rework Station with hot air flow and vacuum (pick-up optional) with temperature control	Wattage
Power Unit	2 Channel			
Soldering Iron Temperature (°C)	450			
Hot Air Blower Temperature (°C)	450			
Desoldering Iron Temperature (°C)	450			
Vacuum Pressure (Bar)	Minimum 0.7			
Total Set Includes	1 x 2 Channel Power Unit with hot air and vacuum 1 x Soldering Iron with removable tip 1 x Hot air blower 1 x Desoldering Iron for vertical work 1 x Desoldering Iron for horizontal work 3 x safety stand with metal wire sponge			
Accessories	2 sets of soldering tips of various sizes			
	2 sets of hot air tips of various sizes			
	2 sets of desoldering tips of various sizes			



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			500 gm of Lead-free solder wire	
			200 gm solder paste for SMD	
			5 soldering tip activation material	
1.7	Soldering Station with temperature control	Accessories	1 Channel Power Unit	4
			1 x Soldering Iron with removable tip	
			2 sets of soldering tips of various sizes	
1.8	Desoldering Station		Desoldering iron with vacuum	2
1.9	Mini Desktop Lathe cum Milling	<b>Cutting Specification</b>		1
		Swing over bed	140 mm	
		Distance between centres	250 mm	
		Hole through spindle	10 mm	
		Spindle taper	MT 2	
		Tailstock taper	MT 1	
		Spindle speed	100-2000 rpm + 10 %	
		Cross slide travel	50 mm	
		Range of threads (Metric version)	0.5-1.25 mm (5 thread pitches)	
		<b>Drilling &amp; Milling</b>		
		Max. Drilling / milling capacity	10 mm	
		Travel of drilling / milling spindle	30 mm	
		Drilling / milling spindle speed	100-1500 rpm + 10 %	
		T-slot	8 mm	
		Motor output power	150 W	
1.10	Drilling machine	Drilling Capacity in Mild Steel	20 mm	1
		Spindle Centre to Column	8" - 203 mm	
		Spindle Travel	140 mm	
		Size of table square	Greater than 250 mm	
		Over all-Height of machine	Greater than 1300 mm	
		Max distance Spindle to base	864 mm	
		Column Diameter	74.15 mm	
		Speed Range	100 to 3000 R.P.M.	
		Motor Speed	1440 R.P.M.	
		Motor Power	1 H.P	
		Drive	Belt/ Gear	
		Accessories	Drill bits set: 1mm to 15mm	
1.11	Handheld High-Speed Drilling	Speed	2600 rpm	2
		Maximum chuck size	0.3 inches	
		Power	600 Watts	
		Torque	9 Newton-meter	
		Accessories	Impact Drill bit set	
			Steel/wood drill bit set	
1.12	Benchtop Grinder Machine	Wheel Diameter	150 mm	1
		No Load Speed	10000 R.P.M	
		Power	400 Watts	



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		Accessories	2 grinder disks for tools grinding	
			2 wire disks	
			2 soft buffing disks	
1.13	Sewing Machine	Electric operated sewing machine	9 Built-in stitches (Number of stitches attribute)	1
			Automatic 4-step buttonhole	
			Adjustable stitch length	
			Automatic reverse to reinforce stitches	
			Two needle positions for precise top stitching	
1.14	Wood Lathe	Power	500 W	1
		Speed	960 to 2400	
		Dist. between centers	500mm	
		Spindle Thread	M 33 x 3.5	
		Spindle Taper / Cone	MK-2	
		Size	800 x 250 x 400mm	
1.15	Portable Welding M/c	Input power voltage	3 Phase 415+10% , Frequency: 50/60 Hz	1
		Rated input power capacity	10.5 KVA	
		Output current adjustment range	20-300(A),	
		Rated output voltage (V)	28	
		Rated duty cycle % 25	60	
		Efficiency (%)	85	
		Arc force adjustment range (a)	0-100	
		Electrode Diameter (mm)	2.5/3.2/4.0	
1.16	Smart Board	Brightness	350cd/m <sup>2</sup> (typical)	1
		Resolution	3840 x 2160 pixels	
		Panel Size	65 inches	
		Shape	Rectangular	
			Can also use as teaching board to write, 10-point touch screen IFP panel for teaching, in built speaker, Android interface, play media, video and presentation for teaching.	
1.17	Heavy Duty Laser Printer	Printer Type	Laser; Functionality – Duplex, All in One (Print, Scan, Copy); Printer Output - Mono	1
		Connectivity	USB, Ethernet, Wi-Fi, Wi-Fi Direct, POWER SOURCE: 220 - 240 V AC 50/60 Hz	
		Pages Per Minute	30 ppm; 35 Pages Automatic Document Feeder	
		Page Size Supported	A3, A4, Letter, A5, A5(Long Edge), A6, Executive, Legal, Folio, Mexico Legal, India Legal; Duplex Print - Auto; LCD Display	



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		Compatible Laser Toner	Standard Toner Cartridge: Page Yield - 2600 pages, as per ISO standards	
1.18	Projector	Projection Distance:	1.68 - 2.02 m (60 inch screen)	1
		Brightness:	3700 Lumens (minimum)	
		Energy Consumption:	300 W	
		Focal Length:	16.9 - 20.28 mm	
		Colour Reproduction:	Up to 1.07 billion colours	
		Contrast Ratio:	16000: 1	
		White Light Output:	3700 - 2400 Lumen (economy) In accordance with ISO 21118:2012	
		Loudspeaker:	2 W	
1.19	Digital Microscope	Magnification	10x to 100x (minimum)	1
		Camera Resolution	12-Megapixel HD Camera	
		Memory	SD card slot (supported up to 128 GB Class 10) to record video under lens	
		Illumination	LED light brightness adjustable with a dimmer button to adjust	
		Stand	Adjustable stand to see wide range of dimensions and angles.	
		Video resolution of Camera	Supports 1080p video recording	
		Computer Connectivity	Image viewable in computer through USB connection with software	
1.20	Mixed Signal Oscilloscope	Channels	Minimum 2	1
		Bandwidth	100 MHz	
		Sampling	1 GS/s or higher	
		Memory	1 Mega Samples	
		Logic Analyzer	Minimum 16 channel Logic Analyzer	
1.21	Digital Storage Oscilloscope	Channel	2	4
		Bandwidth	Up to 70 MHz	
		Sampling Frequency	1 GS/s	
1.22	Computer Based Multiple Instrument Module	Sampling Rate	100 MS/s	2
		Computer Connectivity	USB	
		Two-channel USB digital oscilloscope	1M $\Omega$ , $\pm$ 25V, differential, 14-bit, 100MS/s, 30MHz+	
		Two-channel arbitrary waveform generator	$\pm$ 5V, 14-bit, 100MS/s, 12MHz+ bandwidth	
		16-channel digital logic analyser	3.3V CMOS and 1.8V or 5V tolerant, 100MS/s	
		16-channel pattern generator	3.3V CMOS, 100MS/s	
		16-channel virtual digital I/O		
		Two channel voltmeter		
		Network Analyzer	1Hz to 10MHz or higher	
		Spectrum Analyzer	Upto 30 MHz	
		Data Logger		
		Protocol Analyzer	SPI, CAN, I2C, USART,	
		Programmable power supply	0.5V to 5V , -0.5V to -5V	



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		Accompanying Software		
1.23	Signal Generator	Frequency	Up to 10 MHz	4
		Wave Forms	Sine, Square, Triangular, Pulse, Arbitrary, Noise	
		Modulation	AM, FM	
1.24	Variable Power Supply	Output Voltage	0-30 V	8
		Output Current	0-5A	
		Ripple and Noise	≤0.1%	
		Display	LCD Display	
1.25	Benchtop Multi meter	DC Voltage	10 mV ~ 1000 V	2
		DC Current	1 μA ~ 10 A	
		AC Voltage	True-RMS, 200 mV ~ 750 V	
		AC Current	True-RMS, 20 mA ~ 10 A	
		2-Wire, 4-Wire Resistance	20 Ω ~ 100 MΩ	
		Capacitance Measurement	2 nF ~ 10000 μF	
		Continuity Test	Range is fixed at 2 kΩ	
		Diode Test:	Range is fixed at 2.0 V	
1.26	Vacuum Cleaner	Compact Bagless Vacuum Cleaner		1
		Action radius	9m	
		Cord length	6m	
		Motor Power	Greater than 1.5 kW	
		Suction power	370W	
		Input power	2 kW	
		Vacuum	33kPa	
1.27	Magnifying Glass with Stand		Adjustable alligator clips and holder, hold objects at any angle.	4
			Include a holder for electric soldering iron.	
			Three lenses with different magnifications: 3X/4.5X/25X.	
			White LED lights	
1.28	Laser Cutter/ Engraver	Working size (Minimum)	1400 x 1000 (mm)	1
		Working Materials	Soft Wood, Acrylic, Anodized Aluminium, Glass, Laser Brass Marbelize Marble, Melamine, Stainless Steel with Cerdec coating, Rubber, Mat Board, Alumina	
		Cutting	Acrylic,	
		Laser type	Sealed glass CO <sub>2</sub> Laser Tube	
		Laser power	150 Watt	
		Graphics file support	PLT, CDR, AI, DXF, DWG, BMP, JPEG, TIFF, GIF, PCX	
		Motor	SERVO Motor	
		Working Table	Blade Table	
		Software support	CorelDraw, Photoshop, AutoCAD, JPG	
		Accuracy (min)	0.1 mm	
		Resolution	0.05 mm	
		Cooling Type	Enforced and protection water cooling system	



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1.29	Flex Printer	Cooling System	CW 5200 Chiller	1
		Print Speed	Up to 105 sq.ft. /hr.	
		Printing Resolution	Up to 1440 dpi	
		Media Type	Advertising Banner, PVC, Mesh	
		Print Head Type	KM 512/512i	
		Printing Technology	Piezoelectric, Drop-on-Demand	
		Ink Type	Solvent Ink	
		Number Of Head Nozzles	4 Heads	
		Dimension / Size	4.6m X 0.90m X 1.5m	
		Power	220V, 50Hz, 20A, Single Phase	
		Weight	900 Kg.	
		Workflow	Photoprint Cloud Pixeljet Edition	
		Number Of Print Heads	4	
		Resolution	Up to 1440 dpi	
		Image Format	BMP, TIFF, JPEG, EPS	
		Print Head Thickness	42/30 pl	
		Dimensions	4.6m X 0.90m X 1.5m	
		High Speed USB	Yes	
		Printhead	Konica Minolta 512/512i	
		Color Printing	Color Printing	
1.30	Vinyl Cutter	Max. Cutting Width	610mm (24")	1
		Max media width	700mm	
		Max. Cutting Speed	1500 mm/sec (60 ips)	
		Software	Flexi 8, Corel Draw, Any Cut, Sign Master	
		Motor Drive	DC Servo Control	
		Mechanical Resolution	0.006mm	
		Software Resolution	0.025mm	
1.31	Computer Workstation	<b>Minimum Configuration of Workstation</b>		1
		Processor	2 x Intel Xeon Silver	
		Chassis	2.5" Chassis with up to 8 Hot Plug Hard Drive	
		RAM	64GB RDIMM 2666MT/s Dual Bank	
		Drive Memory	2 x 1 Tb Solid State Drive 12 Gbps	
		Power Supply	Redundant Power Supply (1+1), 550W	
		LAN Connectivity	Dual Port 1Gbps	
		Monitor	29"	
		Mouse & Keyboard	Mechanical high-performance Keyboard	
		UPS	5 kVA	
1.32	Computer Terminal	Computer Terminals to access the workstation	i7 processors 11 Gen or higher, 16 GB RAM, 512 GB SSD, with Monitor, Keyboard, Mouse, Compatible SMPS, 4 Gb Graphics Card	3





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1.33	IOT Lab	Microcontroller Development Board	Quad-core ARM Cortex-A53 (ARM.v8-A architecture)	2 set	
			Up to 1.2GHz Clock speed		
			Broadcom Video Core IV		
			1GB LPDDR2 (900 MHz)		
			Micro SDHC slot for on-board storage		
		Communication Interfaces			
			10/100 Ethernet		
			2.4GHz 802.11n wireless		
			Bluetooth 4.1 Classic		
			Bluetooth Low Energy		
			SPI		
			I2C		
			8 Analog I/O		
			31 GPIOs to interface external sensors		
			4 USB 2.0 port		
			3.5mm analog audio-video jack		
			HDMI output		
			Camera Serial Interface (CSI)		
			Display Serial Interface (DSI)		
		On board Sensors			
	ADXL345 - Triple Axis Accelerometer Sensor (SMD Type) SHT31 - Temperature & Humidity Sensor (SMD Type)				
Onboard User interfaces					
	3x3 channel relay 3 RGB LED 2 Push button Buzzer OLED display				
Additional External Sensors & Accessories					
	Power Adaptor with USB Cable HDMI to VGA Converter IR Sensor PIR Sensor Magnetic Door Sensor DHT11 Sensor Ultrasonic Sensor LM35 Module LuX Sensor - BH1750 Soil Moisture Sensor Rain Sensor GAS Sensor (MQ2) Air Quality Sensor (MQ135) Water Turbidity Sensor Water Oxygen Sensor Water Nitrogen Sensor				



1.34	<b>Electric Vehicle Technology</b>	<b>Charging Unit and Battery Pack</b>	Lithium Polymer Balanced Battery Charger Dual Battery Holder 9V battery snap 11.8V 6000mAH Lithium Polymer Battery Pack Lithium Ion Battery 3.6V 2400mA 3000mA 7.2V Lithium Polymer Battery Pack	1
		<b>Inverter</b>	Rating: 3500/36V PWM Controlled Multistage ATM (Auto Trickle Mode) Charging Smart Overload Sense, Short Circuit and over Temperature Protection	
		<b>Electric motor</b>		
		Rated Voltage(V)	60	
		Maximum Power (W)	1500	
		Maximum Speed(RPM)	3200	
		Drivetrain	Model	
		Regenerative Breaking	Model	
		Battery Management System (BMS)	Battery balancing + Load capacity tester	
		<b>Automatic Coil Winding Machine with turn count</b>		
		Power	1 kW	
		Capacity	10,000 turns of 20 Gauge wire	
		<b>Wheel Balancing Machine</b>		
		Balance Speed	190 RPM	
		Max. Wheel Distance	25 - 300 mm	
		Max. Wheel RIM Diameter	10 - 22 inch	
		Max. Wheel RIM Width	1.5 - 12 inch	
		Max. Wheel Weight	25 Kg	
		Motor	0.5 HP	
		<b>Semi-Auto Spot Welding Machine</b>		
		Rated voltage	220V±15%, 50/60Hz	
		Input Capacity	7.2 KVA; Input Current: 33 A	
		No Load Voltage	45 V	
		Max Current	220 A	
		Usable electrodes	1 to 5 mm	
		Generator Required	5.8 KW	
		Protection Class	IP21S	
		Spray painting machine	High pressure, High Temperature, Short Spray Gun with Adjustable Spray Nozzle 2 meter Cable 5 meter Outlet Hose Quick Connector 2 meter Inlet Hose + Filter	



1.35	Direct to Garment Printer	No of Plate	6	1
		Auto Bed Level	Yes	
		Printer Head	Piezo 180 nozzles per channel or Epson i3200 head.	
		Print Area (minimum)	1100 mm x 700 mm	
		Supported ink	DTG pigment base ink.	
		Supported Materials	All types of garments.	
		Ink Delivery	Bottle – pressurized CYMK, Bottle- Pressurised re-circulation - White (WIMS)	
		Operating Software	In build Software	
		Operating System	Windows	
		Printing Resolution	1440 x 1440 DPI	
		Printing Passes	Both 1/2 PASS	
		Printing Frequency	80 to 90 Sec for A3 size.	
		Minimum Droplet size (Pico Litre)	Approximately 4 pl	
		Maximum Droplet Size (Pico Litre)	Approximately 20 pl	
		Connectivity	USB, LAN	
		Max Power	As applicable	

**Table 2: List of Tools with Detailed Specifications under this Tender**

Item No.	Equipment/Item Name	Specifications	Quantity
2.1	Power Circular Saw	1500W 7"/185mm Wood Cutting Circular Saw with 2x 36T TCT Blades, Corded Electric	1
2.2	Steel shaft Claw Hammer	Claw Hammer with steel shaft	5
2.3	Nylon Mallet	soft faced hammer with two nylon mallets	2
2.4	Allen Key Set	Allen Key 10 or more Pieces Set	2
2.5	Dremel Moto Saw	Rotary Tool	2
2.6	Bench Grinding Machine	Professional Angle Grinder	2
2.7		Professional Bench Grinder	2
2.8	Tri Square 8"	set square	3
2.9	Ratchet Set	Complete Set	2
2.10	Cordless Drilling Machine	18V Cordless Impact Drill with additional Battery Pack	4
2.11	Jigsaw Machine	PST 900 PEL Corded Jigsaw, 230V	1
2.12	Files set	3", 6", & 12" Flat set	2
2.13		Flat file 10" with rubber handle	2
2.14		Flat file 6" with rubber handle	2
2.15		Round file 8" with rubber handle	1
2.16		Half round File 8" with rubber handle	2
2.17	Needle Files	10Pcs Needle File Set Size 3x140mm Files for Metal Glass Stone Jewelry Wood Carving Craft Tool	2
2.18	Ball Peen	200grm ball peen hammer with handle	2



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	Hammer		
2.19	Nylon Mallet	Soft Face Hammer with Handle	5
2.20	Rubber Mallet	700 gram Rubber Mallet with handle	3
2.21	Belt & Disc Sanding machine	350W Bench Sander 1400 rpm	1
2.22	Digital Vernier Caliper	Measuring range up to 200mm/300mm with 0.01mm resolution Digital Vernier Caliper	5
2.23		TDS 4 Ply Towel Paper Roll	30
2.24		Wall Mounted Tissue Paper Dispenser	3
2.25		Clear Acrylic Spray (DC Acryform, etc.) bottle 400 mL	5
2.26		100ml Soldering Rosin Flux (Liquid/Gel)	5
2.27		SMD PCB Soldering Reflow Oven set	1
2.28		Branded Insulated 2 in 1 IBT steel stubby Screwdriver, Length: 400x6mm	4
2.29		Branded Screw driver Set	4
2.30		Branded Micro Bit Driver set for Philips, Tri-wing, Torx, Flat, square & Hexagon Tips	2
2.31		Torque Socket Set	1
2.32		P-90249 Drill & Screwdriver precision Bit Set	3
2.33		100mm Chrome Plated Adjustable Wrench	2
2.34		8" SQ. Drive Socket Set	2
2.35		100W Hot Glue Gun + GlueStick Set	2
2.36		550W Corded Electric Mechanic Kit Professional Drill	2
2.37		Hacksaw Frame with Handle 12"	2
2.38		Hacksaw Frame with Handle 6"	2
2.39		Hacksaw Blades 12"	20
2.40		Hacksaw Blades 6"	20
2.41		Half Pound Machinist Hammer	2
2.42		High grade Engineering Trisquare 6"	2
2.43		1 metre Aluminium 10x10 channel	10
2.44		Gouge chisel 8" with handle	2
2.45		Gouge chisel 6" with handle	2
2.46		Skew chisel 4" with handle	2
2.47		Skew chisel 6" with handle	2
2.48		Firmer Chisel Tool 0.5x6"	2
2.49		Firmer Chisel Tool 0.25x4"	2
2.50		Paring chisel 4"	2
2.51	Miscellaneous	Paring chisel 6"	2
2.52		Odd leg caliper 4"	2
2.53		Out side caliper 6"	2
2.54		Inside Caliper 6"	2
2.55		Odd leg caliper 6"	2
2.56		Divider 6"	2
2.57		Divider 4"	2
2.58		Centre punch 6"	2



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2.59		Triangular File 6"	2
2.60		Triangular File 8"	2
2.61		10 pieces in one Allen Key set	4
2.62		Open ended Spanner set	3
2.63		Power Driven Iron Jack Planer	2
2.64		Adjustable Wrench set	2
2.65		12Inch Bench Vice	2
2.66		Heavy Duty Lever Grease Gun	1
2.67		Lubrication Oil Tank spray type	1
2.68		6 inch blade centrifugal Blower	1
2.69		A3 size Cutting Mat	2
2.70		Stanley Knife	4
2.71		Parrot nose Diamond tip Glass cutter	2
2.72		silicon Sealent tube	2
2.73		Silicon sealent dispenser	1
2.74		Scriber Tool	2
2.75		0-25mm A type Inside Micrometer	2
2.76		25-50mm A type Inside Micrometer	2
2.77		ESD-15 Black Steel Anti-Static Tweezer Bend	5
2.78		300mm Handheld Tenon Saw	2
2.79		1.5 x 1.5 meter Black Table cloth	2
2.80		12 Piece open ended spanner set	2
2.81		Branded Power return 5 meter Measuring Tape	5
2.82		Filler gauge set	2
2.83		Angle gauge set	2
2.84	Networking Tools	Baby Vice (60mm)	10
2.85		Anvil 10KG	1
2.86		Hot Air Gun	1
2.87	Plier	Plier	3
2.88	Manual PCB Drilling Machine	Manual PCB Drilling Machine	3
2.89	Power PCB Drilling Machine	PCB Power Drilling Machine	3
2.90	Belt and Disc Sanding machine	Belt and Disc Sanding machine	1
2.91	Scroll Saw Machine	Scroll Saw Machine	2
2.92	Tri square	Tri square 8 inch	5
2.93	Stainless steel rule	Stainless steel rule	5
2.94	Spirit level	Spirit level	5
2.95	Tin cutter	Tin cutter with spring	10
2.96	Almirah	Glass Front	4
2.97	Air compressor	Air compressor	1



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2.98	Allen Set Wrench	Allen Set Wrench	5
2.99	Tongue and Groove Pliers of various sizes	Tongue and Groove Pliers of various sizes	5
2.100	Non-contact voltage tester	Non-contact voltage tester	5
2.101	Wire cutter cum Stripper automatic type	Wire cutter cum Stripper automatic type	5
2.102	Fish Tape	Fish Tape	2
2.103	Flashlights	Flashlights	2
2.104	Solder Wick	Solder Wick	10
2.105	Filament Dehydrator	Filament Dehydrator	1
2.106	Reflow Oven	Reflow Oven	1
2.107	Glass Cutter	Glass Cutter	2
2.108	Gypsum	Gypsum	10 kg
2.109	Digital Multimeter	Digital Multimeter	5
2.110	Clothes Iron	Clothes Iron	1
2.111	Sensor set including sensors for Home/ Industry/ Agriculture Automation, Medical diagnosis	Sensor set including sensors for Home/ Industry/ Agriculture Automation, Medical diagnosis	5
2.112	Arduino UNO boards	including USB A to B cable+ male —male connecting wires+ female to female connecting wires+ male — female connecting wires	10 Sets
2.113	Underwater operable digital camera	Video & Photo Resolution 5K video + 20 Megapixel photos	1
		Advanced video stabilization	
		Waterproof to 33ft	
		Detachable lens	
	Accessory : Water proof cover		
2.114	NodeMCU (ESP8266) boards	including USB A to B cable+ male —male connecting wires+ female to female connecting wires+ male — female connecting wires	25 Sets
2.115	Raspberry Pi 4 boards	05 sets including HDMI — mini-HDMI connector, adaptor, casing	5 Sets
2.116	Memory card	16 GB	10
2.117	BeagleBone AI for Artificial Intelligence based applications		5 sets
2.118	BeagleBone - Black-Wireless		6 sets
2.119	Peripheral sets for Arduino/ NodeMCU/ Raspberry Pi		35 sets



2.120	ESP32 CAM Development Board WiFi+Bluetooth with OV2640 Camera Module		5 sets
2.121	Solnoi Electronics Raspberry Pi 3 Camera Module Night Vision Camera		5 sets
2.122	Bread Board		50 nos
2.123	Vero Board	KS 98, KS 100, KS 110	30 each
2.124	Single Strand Wire	100 Meter Roll	5 nos.

**Table 3**

**List of Consumables with Detailed Specifications under this Tender**

Item No.	Equipment/Item Name	Specifications	Quantity
3.1	Development Board	expressif ESP WROOM32 Development Board	40
3.2		Arduino UNO R3 SMD Atmega328P Board - Clone Compatible Model	30
3.3		Raspberry Pi Zero	4
3.4		Raspberry Pi 4	4
3.5		1 litre Isopropyl Alcohol	5
3.6		Steel Wool fine wire roll pad scrubber	10
3.7		Cable for Arduino Nano (USB 2.0 A to USB 2.0 Mini B) 30cm	20
3.8		Micro USB-A to Micro-B Cable -45cm	20
3.9		12V 1A DC Power Supply Adapter	40
3.10		2.1 x 5.5mm DC Power Jack Socket Female - Panel Mount	100
3.11		DC-005 DC Power Jack Female Adapter PCB Mount - 2.1 x 5.5mm	50
3.12		High Quality 7/36 Five/seven colour wire 50 meters roll	1
3.13		High Quality 14/36 seven colour wire 20 meters roll	1
3.14		1x40 Pin 2.54mm Pitch Female Berg Strip Connector - Break Away Header - Straight	50
3.15		1x40 Pin 2.54mm Pitch Male Berg Strip - Break Away Header - Straight	50
3.16		8 Pin JST XH Relimate Connector (RMC) Male-Female Pair With Wire/Cable	50
3.17		KF301 3 Pin 5.08mm Pitch Plug-in Screw Terminal Block Connector	50



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3.18	Miscellaneous	Heat Shrink Tubing (HST) Insulation Assorted kit	5
3.19		Nylon Cable Zip Ties 300 mm White (100pcs)	5
3.20		Nylon Cable Zip Ties 100mm (100pcs/Bag)	10
3.21		Heat sink for TO220 Package chips with insulation pad	100
3.22		Mini USB Jack, B Type Female Connector	40
3.23		230m P/N B-30-1000 Insulated PVC Coated 30AWG Wire Wrapping Wire	10
3.24		24 Pieces M2.5 (11mm Body + 6mm Screw) Hex Brass Standoff Cylinders + Screws + Nuts for Raspberry Pi Series	5
3.25		M3 X 5 mm Female to Female Brass Hex Threaded Pillar Standoff Spacer	100
3.26		BNC Male Plug to 2X 4mm Dual Banana Female Jack Socket Binding Post RF Coax Coaxial Splitter Connector BNC Banana Adapter	10
3.27		Universal Oscilloscope Probe with Accessories Kit 100MHz Oscilloscope Clip Probes with BNC to Minigrabber Test Lead Kit	10
3.28		Philips Head M3 X 6mm Bolt	100
3.29		Heat sink Compound/paste 10 gm pack	20
3.30		350ml Glossy Spray Paint Red	1
3.31		350ml Glossy Spray Paint Green	1
3.32		350ml Glossy Spray Paint Blue	1
3.33		350ml Glossy Spray Paint Black	1
3.34		350ml Grey Primer spray paint	1
3.35		1Litre Clear epoxy resin with hardener	2
3.36		High Quality Non-Breakable Safety Goggles/Welding Goggles suitable for Welding, Soldering, Torching, Brazing & Metal Cutting	10
3.37		6-socket Surge Protector Universal Socket with 6.5ft Heavy Duty Cable	5
3.38		Isopropyl Alcohol 99.9% Pure [(CH <sub>3</sub> ) <sub>2</sub> -CH-OH] CAS: 67-63-0] 300ml Rubbing Alcohol	5
3.39		SKD-S2 Solvent based Developer Spray	5
3.40		Electronic Contact Spray- 250 ml	5
3.41		3mm Burr milling bits (Pack of Ten)	3
3.42	PCB V shaped 20 degree engraving bits (pack of Ten)	2	
3.43	500ml PU Vernish	1	
3.44	Drill Bits set for concrete	2	





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3.45		MS Drill Bits set	2
3.46		Drill Bits set for wood	2
3.47		1 Liter HCL 99%	1
3.48		1 Liter Hydrogen peroxide	5
3.49		1 Liter Acetone	1
3.50		PCB Cleaning Solution Spray - 99% IPA-100ml	5
3.51		Nuts of sizes: 3mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm, 100 pieces each (Total 7x100 pieces pack)	1
3.52		Bolts Dia(3mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm) of 1", 1.5", 2" and 2.5", 100 pieces each (Total 7x4x100 pieces pack)	1
3.53		Washers 3mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm, 100 pieces each (Total 7x100 pieces pack)	1
3.54		500ml Liquid Tin solder	1
3.55		20 gram pack UV50 No-Clean Soldering Flux Lead-Free Soldering Welding Flux	20
3.56		Original UV554E No-Clean Welding/Soldering & Desoldering Flux syringe pack with needles	20
3.57		RMA-223 Solder Flux Paste, Volume: 10CC	20
3.58		Soldering Iron Tip Cleaner Steel Wire with Pot/Stand	10
3.59	Vacuum Cleaner	15-Litre 1400 Watt 16 KPa High Suction Wet and Dry Vacuum Cleaner and Blower	2
3.60	Measuring Equipment	Dual Channel Oscilloscope Multimeter USB Portable 40Mhz, 2 in 1 Dual Channel Oscilloscope + Multimeter 250M Sampling rate, 40MHZ Bandwidth, 10MV-10V Vertical resolution, Sample Rate Range: 250MSa/s(Single-channel), 125MSa/s(Dual-channel), Waveform Interpolation: (sin x)/x, Record Length: Max. 6K for single-channel; 3K samples per dual-channel SEC/DIV Range: 5ns/div~500s/div 1, 2, 5 sequence, VOLTS/DIV Range: 10mV/div~10V/divat input BNC Bandwidth Limit, typical: 20MHz	1
3.61	Digital Multimeter	Digital LCR Meter, 3-1/2 Digits Large LCD Display. Auto Power Off. Over-Range Indication. Low Battery Indication, Resistance: 0 – 200 / 2k / 20k / 200k / 2M / 20MΩ. Accuracy: ±0.8%, Capacitance: 0 – 2n / 20n / 200n / 2u / 20u / 200u / 600uF. Accuracy: ±1%, Inductance: 0 – 2m / 20m / 200m / 2 / 20H. Accuracy: ±2%, Transistor Test, Diode Test, Audible Continuity Test Facility.	1
3.62		Branded PETG 1.75mm 3D Printing Filament 1kg-Blue	1
3.63		Branded PLA+ 1.75mm 3D Printing Filament 1kg-Orange	3
3.64		Branded PLA+ 1.75mm 3D Printing Filament 1kg-Red	3
3.65	3D Printer Filament	Branded PLA+ 1.75mm 3D Printing Filament 1kg-Grey	3



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3.66		Branded PLA+ 1.75mm 3D Printing Filament 1kg-Blue	3
3.67		Branded PLA+ 1.75mm 3D Printing Filament 1kg-Gold	2
3.68		Branded PLA+ 1.75mm 3D Printing Filament 1kg-White	5
3.69		Branded ABS+ 1.75mm 3D Printing Filament 1kg-Black	2
3.70		Branded ABS+ 1.75mm 3D Printing Filament 1kg-Natural	2
3.71		Branded Carbon Fiber 3D Filament 1.75mm	2
3.72		Metal film Resistors 1/4 Watt ( 1E, 2E2, 4E7) and 1/2 Watt ( 1E, 2E2, 4E7) A Pack of 100 Each	1
3.73		Through hole 50 Value Resistor kit (pack of 1000) quarter watt	3
3.74		LED assorted kit (50 pcs)	3
3.75		NEMA17 Stepper Motors	10
3.76		Stm32 Bluepill (ARM Cortex-M0 STM32F051C8T6 STM32 )	3
3.77		37-in-1 Sensor Module Kit	4
3.78		5V PCB MOUNT SPDT RELAY	50
3.79		12V PCB MOUNT SPDT RELAY	50
3.80		NE555 Timer IC DIP-8 Package	20
3.81		1N4007 Rectifier Diode	100
3.82		1N4148 high-speed switching diode	100
3.83		1N4148 high-speed SMD switching diode	100
3.84		2N3904 Transistor	100
3.85	Electronic Active & Passive Components	IC7805 Regulator	50
3.86		AMS1117 3.3V Voltage Regulator SOT-223 package	30
3.87		AMS1117-5.0V, 1A, SOT-223 Voltage Regulator IC	30
3.88		AMS1117-ADJ 1A, SOT-223 Voltage Regulator IC	10
3.89		IRF540 N-CHANNEL MOSFET TO-220 PACKAGE	30
3.90		FR4 Copper Clad Plate Laminate Single Side PCB 100 x 70 x 1.5 mm	50
3.91		FR4 Copper Clad Laminate Double Side PCB 100 x 75 x 1.5 mm	50
3.92		AOD4184A TO-252 SMD N-Channel MOSFET	30
3.93		25PCS 12*12*7.3mm Push Button Switch Kit with 5 Colours Caps	2
3.94		60PCS High-Power Three-Terminal Voltage Regulator Kit	2



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3.95	12V RGB 5050 SMD LED Strip- 5Meter reel	1
3.96	12V Red SMD LED Strip - 5Meter	1
3.97	12V Yellow SMD LED Strip - 5Meter	1
3.98	12V Green SMD LED Strip - 5Meter	1
3.99	12V Blue SMD LED Strip - 5Meter	1
3.100	12V / 5A Power Supply 60W DC SMPS - CCTV & LED Lights [Metal Box]	1
3.101	44 Keys RGB IR Remote Controller for 12V 5050 RGB LED Strip	1
3.102	Surface Mount MOSFET Assortment Kit	5
3.103	Surface Mount Diode Assortment Kit	5
3.104	Surface Mount BJT Transistors Assortment Kit	5
3.105	BJT Transistors Assortment Kit	5
3.106	Crystal Oscillator Assorted kit	5
3.107	Surface Mount Crystal Oscillator Assorted kit	5
3.108	SMD Atmega 32	30
3.109	SMD Atmega 328P	30
3.110	Surface Mount LED Green	100
3.111	Surface Mount LED Blue	100
3.112	Surface Mount LED Red	100
3.113	Surface Mount 1W LED Square flat white colour	100
3.114	Surface Mount LM555	30
3.115	Surface Mount tantalum Capacitor Assortment Kit	10
3.116	Surface Mount Ceramic Capacitor Assortment Kit	10
3.117	Surface Mount Electrolytic Capacitor Assortment Kit 0.1uF to 470uF	10
3.118	Surface Mount Resistor assortment Kit 1 $\Omega$ To 220 M $\Omega$	5
3.119	Quarter watt Resistor Assortment Kit – 1 $\Omega$ To 220 M $\Omega$	2
3.120	12X12 inches Phenolic Single Sided Plain Copper Clad Board (PCB)	10
3.121	3mm Diffused LED Diode Assortment Kit	2
3.122	3296W Potentiometers assorted Kit- 15 Type	5
3.123	Hook Up Wire single strand 22swg 100meter roll	1



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3.124	10 mm width Kapton Tape roll	2
3.125	1K ohm -1M ohm Single Linear-High Precision Variable Resistor Potentiometer Assortment Kit (with Knobs)	10
3.126	SMD L293DD IC	20
3.127	SMD L298 IC	20
3.128	40mm DC Cooling Fan	4
3.129	A4988 Motor Driver module	12
3.130	MQ10 Methane sensor	20
3.131	5W UV laser diode module	1
3.132	GT2 Timing belt 5mm width 1 meter	4
3.133	GT2 Pully	8
3.134	Idler pully for GT2 Belt	8
3.135	3mm radial bearing	50
3.136	5mm radial bearing	50
3.137	8mm radial bearing	50
3.138	Radial bearing 625ZZ	50
3.139	Radial Bearing 6202 15x35x11mm	30
3.140	Radial Bearing 608ZZ 8x22x7mm	30
3.141	KP08 8mm dia rail mount ball bearing	20
3.142	DHT22 Sensor Module	20
3.143	steel Smooth rod 5mm dia 1meter length	10
3.144	steel Smooth rod 8mm dia 1meter length	10
3.145	GM Planetary Gear Micro DC motor 100rpm	8
3.146	5mm LDR	20
3.147	IR LED 3mm	20
3.148	IR LED 5mm	20
3.149	2 inch OLED display	10
3.150	16x2 LCD display	30
3.151	64x2 display	5
3.152	128x64 Graphical display	5
3.153	TSOP1738 IR sensor	15



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3.154		3mm LDR	20
3.155		Arduino Uno GRBL Shield	4
3.156		SG90 Servo motor	20
3.157		MG945 Servo motor	25
3.158		MG995/996R Servo motor	16
3.159		10K Potentiometer Module with Knob	60
3.160		SME 2 Watt White LED With Heat Sink	30
3.161		XL6009 DC to DC step up converter Module	5
3.162		12V Cold White 5050 SMD LED Strip-5Meter	1
3.163	Battery & Chargers	9V battery snap	10
3.164		11.8V 6000mAH Lithium Polymer Battery Pack	10
3.165		18650 Lithium Ion Battery 3.6V 2400mA	20
3.166		18650 Dual Battery Holder	6
3.167		18650 Battery management module	10
3.168		3000mA 7.2V Lithium Polymer Battery Pack	5
3.169		6S Lithium Polymer Balanced Battery Charger	2
3.170	Welding Electrodes	MS Electrodes, Size: 3.15*450mm IS AWS Code A5.1 1983 E6013	300
3.171		MS Electrodes, Size: 2.5*350mm IS AWS Code A5.1 1983 E6013	300
3.172	Laser Cutting sheets	Cast Acrylic sheet for Laser Cutting & Engraving 10mm transparent sheets 4ftX6ft or 2.05mX3.05m	5
3.173		Cast Acrylic sheet Laser Cutting & Engraving 5mm transparent sheets 4ftX6ft or 2.05mX3.05m	20
3.174		Cast Acrylic sheet for Laser Cutting & Engraving 5mm orange 4ftX6ft or 2.05mX3.05m	10
3.175		Cast Acrylic sheet for Laser Cutting & Engraving 5mm Red 4ftX6ft or 2.05mX3.05m	10
3.176		Cast Acrylic sheet for Laser Cutting & Engraving 5mm Blue 4ftX6ft or 2.05mX3.05m	10
3.177		Cast Acrylic sheet for Laser Cutting & Engraving 5mm Green 4ftX6ft or 2.05mX3.05m	10
3.178		Cast Acrylic sheet for Laser Cutting & Engraving 5mm Black 4ftX6ft or 2.05mX3.05m	10
3.179		Cast Acrylic sheet for Laser Cutting & Engraving 5mm White 4ftX6ft or 2.05mX3.05m	10
3.180		Cast Acrylic sheet for Laser Cutting & Engraving 5mm Yellow 4ftX6ft or 2.05mX3.05m	10
3.181		Cast Acrylic sheet for Laser Cutting & Engraving 3mm Red 4ftX6ft or 2.05mX3.05m	2



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3.182		Cast Acrylic sheet for Laser Cutting & Engraving 3mm Orange 4ftX6ft or 2.05mX3.05m	2
3.183		Cast Acrylic sheet for Laser Cutting & Engraving 3mm Blue 4ftX6ft or 2.05mX3.05m	2
3.184		Cast Acrylic sheet for Laser Cutting & Engraving 3mm Green 4ftX6ft or 2.05mX3.05m	2
3.185		Cast Acrylic sheet for Laser Cutting & Engraving 3mm Yellow 4ftX6ft or 2.05mX3.05m	2
3.186		Cast Acrylic sheet for Laser Cutting & Engraving 3mm Black 4ftX6ft or 2.05mX3.05m	2
3.187		Cast Acrylic sheet for Laser Cutting & Engraving 3mm Transparent 4ftX6ft or 2.05mX3.05m	2
3.188		Cast Acrylic sheet for Laser Cutting & Engraving 3mm White 4ftX6ft or 2.05mX3.05m	2
3.189	Wood Router Sheets	Maroon Coloured MDF 5mm Board Size: 8x4 or equivalent	5
3.190		Orange Coloured MDF 5mm Board Size: 8x4 or equivalent	5
3.191		Blue Coloured MDF 5mm Board Size: 8x4 or equivalent	5
3.192		Violet Coloured MDF 5mm Board Size: 8x4 or equivalent	5
3.193		Grey Coloured MDF 5mm Board Size: 8x4 or equivalent	5
3.194		Maroon Coloured MDF 5mm Board Size: 8x4 or equivalent	5
3.195		Green mint Coloured MDF 5mm Board Size: 8x4 or equivalent	5
3.196		Branded Plywood 6mm sheet Size: 6'x4' or equivalent	20
3.197	Fire Extinguisher	Electrical Fire Extinguisher	2
3.198	First Aix Box	First Aix Box for Standard Workshop	1
3.199	Cloth Iron	Cloth Iron	1
3.200	Foam Sheet	Foam Sheet 8 mm, 10 mm, 12 mm all of area 8ft x 4 ft	20 each
3.201	Ply Board	Ply Board 8 mm, 12 mm, 18 mm all of area 8ft x 4 ft	10 each
3.202	Nylon rods	Nylon rods 12 mm, 15 mm, 18 mm, 25 mm all of 1meter	5 each
3.203	Screw	Screw 3mm, 4mm, 5mm	100 each
3.204	Studs	Studs 6mm, 8 mm, length 1 m each	5 each
3.205	Nails	Nails 1 inch, 2 inch, 3inch	100 each
3.206	Adhesives	M Seal, Feviquick, Fevi Bond	10 each
3.207	2-way tape	2-way tape	20 each
3.208	PVC pipes	0.75, 1, 1.5, 2.5, 3 inch length 10 ft	5 each
3.209	Aluminum channels	Aluminum channels (L, C, Box, Strip Length 12 ft)	5 each
3.210	PCB Drill Bits	0.5 mm, 0.8 mm, 1 mm	20 each



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3.211	Drill Bits	3mm, 4mm, 5 mm, 6 mm, 8 mm, 10 mm, 12 mm	20 each
3.212	Carpentry boring bits	Entire kit	1 kit
3.213	Radium Cutter Knives	Radium Cutter Knives	2
3.214	Glue Stick	Glue Stick	50
3.215	Tool wall covering perforator	Tool wall covering perforator	3
3.216	Router bit starter kit	Router bit starter kit	1

## For the participation in the Tender process:

1. Intending bidders may obtain copy of the **Tender document** containing all terms and conditions along with relevant specifications from the **JISCE AICTE IDEA LAB ([www.jiscollege.ac.in](http://www.jiscollege.ac.in))**
2. The Technical bids & Financial bids should be submitted in separate sealed envelopes super scribed as "Technical Bid" & "Financial Bid" as applicable. Sealed envelopes containing the Technical bid and the Financial bid must be placed in another envelope duly sealed and super scribed with the tender number, name of lab, and due date of tender opening.
3. If the bidder wishes to quote for more than one piece of equipment, they should quote product-wise as enumerated in Annexure.

**PRINCIPAL**



## INSTRUCTIONS TO BIDDERS

### Eligibility Criteria

1. Minimum three years' experience in the field of supply of equipment.
2. Annual Turnover for supply of equipment at least Rs. 25 lakhs (Rupees Twenty-five lakhs) in each of the last three years i.e., 2019-20, 2020-21 & 2021-22 as per P&L audited statement of Account. (Applicable for Table-1 Items)
3. Must have supplied similar equipment to laboratories of State or Central Government Institutions or reputed Educational or Research Institutions and proof of such supplies should be produced.

### Documents Comprising the Bid

The bid prepared by the bidder shall comprise the following components. (These will also be used for determining the eligibility criteria).

Documentary evidence established in accordance with the eligibility criteria explained above that the bidder is eligible to bid and is qualified to perform the contract if the bid is accepted.

- a) Audited P&L Accounts for the last three years i.e., 2019-20, 2020-21 & 2021-22 (If not audited, then CA certified)
- b) Registration Certificate/Certificate of incorporation, if any.
- c) Authorized dealer Certificate from Manufacturer if the agency is a dealer.
- d) GST Registration
- e) Copy of PAN.IC IN No. of the Company
- f) GST number along with registered email id and phone number of the firm

### Period of Validity of Bids

Bid shall remain valid for **90 days** after the date of opening of bids prescribed by JISCE. A bid valid for a shorter period shall be rejected by JISCE as non- responsive.

In exceptional circumstances, JISCE may request the consent of the bidder for an extension to the period of bid validity. The request and the response there to shall be made in writing. The bid security provided also is suitably extended. The bidder may refuse the request without forfeiting his bid security. A bidder accepting the request and granting extension will not be permitted to modify his bid.

### Submission of BID

Tender completed in all respects may be submitted by 5.00 PM on 15.11.2022 to the following address preferably through Speed Post or Registered Post (Tenders received after the due date and time shall not be entertained):

**JISCE AICTE IDEA LAB**

**JIS College of Engineering,**

**Block A, Phase-III, Kalyani.**

**District - Nadia, West Bengal.**

**India. Pin: 741235.**





## Opening of Bids by JISCE

The Institute Purchase Committee shall open the **Technical bids Envelope** at 11.30 am on 17.11.2022.

The committee shall review and finalize bids satisfying the minimum technical specifications mentioned in the Tender Notice for each equipment. (**Applicable for Table 1 Items only**)

The shortlisted bids for each equipment meeting minimum specification will be sent the invitation through email for participation in opening of financial Bid. The shortlisted bidder must nominate (via email), One representative permitted to attend the financial bid opening.

The financial bid of the bidders who are found Techno-commercially non appropriate, will be rejected, and returned unopened.

The respective Vendor has to deposit Rs. 500/- as Tender Fee (Non-Refundable), and Rs. 10000/- as EMD (Applicable once, whether bidding for 1 equipment or more). Mode of submission is bank draft drawn in the favour of "JIS College of Engineering IDEA Lab" payable at Kolkata.

## Rates Comparison

Bidders are requested to send their rates (inclusive of transportation, loading, unloading, GST etc, nothing extra will be paid towards delivery and installation) on for, JIS College of Engineering, Kalyani, Nadia, West Bengal, India.

## Parts of Equipment

Where the equipment is composed of several subunits/components, the rate should be quoted for each subunit/component.

The Institute reserves the right to increase or decrease the number of subunits/ components and number of equipment according to its requirements.

## AMC

It is required to have 1 free AMC for one year after the expiry of warranty period. Also, quote the AMC charges separately for comprehensive and non-comprehensive (labour and consumables) for two years after warranty period.

## Payment Terms

**Payment will be made to the supplier through following modes:**

**NEFT/Cheque/Demand Draft:** 70% payment will be made within 30 days from the date of receipt of material JIS College of Engineering, Kalyani and balance 30% after successful installation of the equipment.

## Delivery & Installation

All the items ordered shall be delivered and installed at JISCE, Kalyani within 3 Weeks from the date of issue of the purchase order. All the aspects of safe delivery and commissioning shall be the exclusive responsibility of the supplier. If the supplier fails to deliver and commissioning of the items/ components on or before the stipulated date, then a penalty at the rate of 1 % per week of the total order value shall be levied subject to maximum of 10% of the total order value. The goods are to be supplied within this stipulated period, failing which the supply order is liable to be cancelled.



## **Training of Personnel:**

The supplier shall provide technical training to the personnel involved in the use of the equipment at the Institute premises, immediately after completing the installation of the equipment at the company cost.

## **Site Preparation:**

The supplier shall inform the Institute about the site preparation, if any, needed for the installation of equipment, within 1 week after the receipt of the purchase order. The supplier must provide complete details regarding space and all the other infrastructural requirements needed for the equipment, which the Institute should arrange before the arrival of the equipment to ensure its timely installation and smooth operation thereafter.

The supplier shall visit the Institute and see the site whether the equipment is to be installed and may offer his advice and render assistance to the Institute in the preparation of the site and other pre-installation requirements.

## **Guarantee / Warranty:**

A **three-year warranty** must be provided by the supplier from the date of the satisfactory installation / commissioning of equipment against the defect of any manufacturing, workmanship, and poor quality of components.

In case, supplier fails to repair / or rectify the equipment during the warranty/guarantee period, Institute may employ or pay another person/company for repairing the equipment, and all such damages, loss and expenses shall be recovered from the supplier.

## **Award of Contract:**

The JISCE purchase committee shall determine the most suitable bids based on technical, commercial and financial terms.

Award of work shall be considered based on requirement as assessed by JISCE.

A Purchase order will be issued by JISCE to the selected Agency.

## **Undertaking from the Bidders:**

An undertaking will be submitted by the Bidder/firm/company/vendor that in the past they have never been banned/debarred for doing business dealings with the Ministry of Defence/Govt. of India/ any other Govt. organization and that there is no enquiry going on by CBI/ED/any other Govt. agency against them.

## **Jurisdiction**

This tender and or the contract or work order issued under this tender shall be governed by Laws of India and shall be exclusive jurisdiction of courts at Krishnanagar, Nadia, West-Bengal.

**PRINCIPAL**



## Tender Submission Letter

**(To be Typed & Submitted in the Letter Head of the Company/Firm of Bidder)**

**Tender No: JISCE-IDEA LAB/Admin/Tender /2022-23/01**

Dated: .....

To,

**The Principal,  
JIS College of Engineering,  
Block – A, Phase -III, Kalyani.  
District – Nadia. West Bengal  
PIN 741235**

Subject: Submission of Offer against Tender No: **JISCE-IDEA LAB/Admin/Tender /2022-23/01**

Dear Sir,

I/We hereby offer to carry out the assignment detailed in the Tender issued by AICTE IDEA LAB, JISCE, KALYANI, in accordance with the tender issued dated: 30.09.2022

I/We have carefully perused the following listed documents connected with the Tender documents and shall abide by the same.

Tender Document

1. Technical Bid
2. Financial Bid

Supporting Document

1. Audited P&L Accounts of last 3 years
2. Registration Certificate
3. Authorized Dealer Certificate, from Manufacturer (If applicable)
4. GST Registration letter along with email ID & Phone No.
5. Copy of PAN/CIN No.

I/We have furnished 'Tender Fee and Earnest Money Deposit (EMD)' for the work as provided for in the Tender Conditions as indicated by JISCE (Receipt Copy of Deposit is attached) I/We further agree to execute all the works referred to in the said Tender documents upon the terms and conditions contained or referred to therein and as detailed in the thereto.

Date:

Place:

Signature of authorized person

Full Name & Designation:

Company's Seal Date:



# JIS College of Engineering

(An Autonomous Institute)

Block 'A', Phase-III, Kalyani, Nadia, Pin-741235,

Phone : (033) 2582-2865/ 2138 Fax : (033) 2582-2138

Website: [www.jiscollege.ac.in](http://www.jiscollege.ac.in), Email: [info@jiscollege.ac.in](mailto:info@jiscollege.ac.in)

## TECHNICAL BID - FORMAT

Name of the Bidder: \_\_\_\_\_

S.No.	Name of Equipment	Specifications		Quantity
		Parameter	Value	
1				
2				
3				
4				

### Terms & Conditions

- All the support services and replacement shall be provided with respect to “Company Partner Premier Support” Packs.
- The Vendor shall also provide On-Site Support (Hardware/Software) for all above mentioned location, whenever requested.
- The vendor shall coordinate with company for registering a call and delivery of support service on time.
- The vendor shall also arrange a standby device (if required) till the replacement of a faulty device received from company.

### Service Level Agreement:

- Response Time: 1 Business Day
- Resolution Time: 2 Business Day onsite by technically qualified engineer and all hardware repair/replacement support back-to-back from Manufacturer.



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## FINANCIAL BID – FORMAT

Name of the Bidder: \_\_\_\_\_

S No	Description	Amount	Taxes	Total Amount
1				
2				
3				
4				

Note: The bidder should quote price inclusive of all expenses, duties, levies, out of pocket expenses, etc.

Certified that the above offer is valid for **90 days** from the opening of technical bid.

Signature of the Authorized Signatory

Name of the Firm: \_\_\_\_\_

Place: \_\_\_\_\_

Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Address: \_\_\_\_\_

(with rubber stamp of the firm)



## Certificate of Guarantee/Warranty (on letter head)

I / We certify that the guarantee / warranty shall be given for a period of 3 (Three) Year starting from the date of the satisfactory installation, commissioning and handing over of the equipment and the work completed under the contract. During the guarantee / warranty period, I / we shall provide the “after sale service” and the replacement of defective / or any part(s) of the equipment or rectification of defects of work of the equipment will be free of cost. The replacement of the parts shall be arranged by us, at our own cost and responsibility. We undertake that the above guarantee / warranty shall begin only from the date of successful installation. The benefit of change in dates of the guarantee / warranty period shall be in the interest of the user / your organization.

I / We shall try to repair the equipment at Institute premises. However, in case it is not possible to repair the equipment at Institute premises, we will take out the equipment to our site on our own expenses. We shall take the entire responsibility for the safe custody and transportation of the equipment taken out for repair still the equipment is rehabilitated to the Institute after repair. If any loss of equipment occurred during our custody, we will restore it / compensate to Institute for such losses.

I / We guarantee that in case we fail to carry out the maintenance work within the stipulated period, the Institute reserves the right to get the maintenance work carried out at our risk, cost and responsibility after informing us. The expenses of the same shall be recoverable from us with / without interest in accordance with the circumstances.

I / We undertake to perform calibration after every major repair / breakdown / taking the equipment out for repair from the Institute premises. I / We guarantee that we will supply spare parts, if and when required on agreed basis for an agreed price. The agreed basis could be an agreed discount on the published catalogue price.

I / We guarantee to the effect that before going out of production of the spare parts, we will give the adequate advance notice to Institute so that Institute may undertake to procure the balance of the life time requirements of the spare parts.



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Website: [www.jiscollege.ac.in](http://www.jiscollege.ac.in), Email: [info@jiscollege.ac.in](mailto:info@jiscollege.ac.in)

## List of Govt. Organization/ NITs/IISER/CSIR/IISc/ Reputed University/Institute

List of Government Organizations for whom the Bidder has undertaken such work during last three years (must be supported with work orders)

Name of the organization	Name of Contact Person	Contact No.

Name of application specialist / Service Engineer who have the technical competency to handle and support the quoted product during the warranty period.

Name of the Organization	Name of Contact Person	Contact No.

The OEM/ authorized distributor / agent must be successfully completed at least 3 similar orders in JISCEs/ NITs/IISER/CSIR/IISc/ Reputed University/Institute during last 3 years.

Signature of Bidder

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Organization Name: \_\_\_\_\_

Contact No. : \_\_\_\_\_



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## MANDATE FORM FOR ELECTRONIC FUND TRANSFER/RTGS TRANSFER

Date: \_\_\_ / \_\_\_ / \_\_\_

To,

**The Principal,**

**JIS College of Engineering,  
Block – A, Phase -III, Kalyani.  
District – Nadia. West Bengal  
PIN 741235**

**Sub:** Authorization for release of payment / dues from JIS College of Engineering through Electronic Fund Transfer/RTGS Transfer.

Name of the Party/Firm/Company/Institute:

Address of the Party:

City: \_\_\_\_\_ Pin Code: \_\_\_\_\_ E-Mail ID: \_\_\_\_\_

Mob No: \_\_\_\_\_ Permanent Account Number: \_\_\_\_\_

Particulars of Bank:

Bank Name:		Branch Name:	
Branch Place:		Branch City:	
PIN Code:		Branch Code:	
MICR No.:			

(9 Digit number appearing on the MICR Bank of the Cheque supplied by the Bank, Please attach a Xerox copy of a cheque of your bank for ensuring accuracy of the bank name , branch name and code number)

IFS Code:(11-digit alpha numeric code)																				
Account Type	Savings				Current				Cash Credit											
Account Number:																				

Place: \_\_\_\_\_

Date: \_\_\_\_\_

**Signature & Seal of the Authorized Signatory of the Party**

Certified that particulars furnished above are correct as per our records

Bankers Stamp:

Date: \_\_\_\_\_

**Signature of the Authorized Official from the Bank**





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## Certificate of Declaration (on letter head)

Tender Notice No-

Date-

### Declaration

1. I/We have read the above terms and conditions carefully and these are acceptable to me.
2. I/We hereby declare that my firm/company/concern is registered for the above work. I/We am in the business of the above work, which can be verified from my record. I/we have not been blacklisted by any Government and other organization.

Name of the Tenderer

Address

Signature of the Tenderer

With Seal and Date



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## INTEGRITY PACT

### To Whomsoever It May Concern

Subject: Tender Number JISCE-IDEA LAB/Admin/Tender /2022-23/01 for procurement of items to be used in AICTE IdeaLab in JIS College of Engineering, Kalyani

It is here by declared that The Principal, JIS College of Engineering, Kalyani is committed to follow the principle of transparency, equity, and competitiveness in public procurement.

The subject Tender Number JISCE-IDEA LAB/Admin/Tender/2022-23/01 is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender/bid documents, failing which the tenderer/bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the JIS College of Engineering.

Yours faithfully,  
Prof. Dr. Partha Sarkar  
Principal,  
JIS College of Engineering  
Block A, Phase III,  
Kalyani. District – Nadia.  
West Bengal. India.  
PIN - 741235



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## INTEGRITY PACT

To,

The Principal, JIS College of Engineering  
Block A, Phase III,  
Kalyani. District – Nadia.  
West Bengal. India.  
PIN - 741235

Sub: Submission of Tender for the work JISCE-IDEA LAB/Admin/Tender /2022-23/01

Dear Sir,

I/We acknowledge that JIS College of Engineering is committed to follow the principles there of as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that **THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE** of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by JIS College of Engineering. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, JIS College of Engineering shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid in accordance with terms and conditions of the tender/ bid.

Yours faithfully

(Duly authorized signatory of the Bidder)



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To be signed by the bidder and same signatory competent /  
authorized to sign therelevant contract on behalf of JIS College of  
Engineering.

## INTEGRITY AGREEMENT

This Integrity Agreement is made at ..... on this ..... day of ..... 20.....

BETWEEN

JIS College of Engineering represented through The Principal,

(Hereinafter referred as the 'Principal', which expression shall unless repugnant to the  
meaning or context hereof include its successors and permitted assigns)

AND

.....

.....

(Name and Address of the Individual/firm/Company)

through ..... (Hereinafter  
referred to as the

(Details of duly authorized signatory)

“Bidder/Contractor” and which expression shall unless repugnant to the meaning or context  
hereof include its successors and permitted assigns)



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## Preamble

WHEREAS the Principal has floated the Tender (NIT No. JISCE-IDEA LAB/Admin/Tender /2022-23/01)

(Hereinafter referred to as "Tender/Bid")

and intends to award, under laid down organizational procedure, contract for JISCE Ideal-Lab Procurement

(Name of work)

hereinafter referred to as the "Contract".

AND WHEREAS the Principal values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement(hereinafter referred to as "Integrity Pact" or "Pact"), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:

### Article 1: Commitment of the Principal

- (1) The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:
  - (a) No employee of the Principal, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
  - (b) The Principal will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
  - (c) The Principal shall endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
- (2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive



suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

## Article 2: Commitment of the Bidder(s)/Contractor(s)

1. It is required that each Bidder/Contractor (including their respective officers, employees, and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
2. The Bidder(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
  - (a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
  - (b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.
  - (c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
  - (d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly, Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participates in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.
  - (e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.



3. The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
4. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice means a wilful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.
5. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

### Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Principal under law or the Contract or its established policies and laid down procedures, the Principal shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/ Contractor accepts and undertakes to respect and uphold the Principal's absolute right:

1. If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal after giving 14 days' notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal. Such exclusion may be forever or for a limited period as decided by the Principal.
2. Forfeiture of EMD/Performance Guarantee/Security Deposit: If the Principal has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal apart from exercising any legal rights that may have accrued to the Principal, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.
3. Criminal Liability: If the Principal obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to law enforcing agencies for further investigation.



## Article 4: Previous Transgression

1. The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Contractor as deemed fit by the Principal.
3. If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal may, at its own discretion, revoke the exclusion prematurely.

## Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors

1. The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Subcontractors/sub-vendors.
2. The Principal will enter into Pacts on identical terms as this one with all Bidders and Contractors.
3. The Principal will disqualify Bidders, who do not submit, the duly signed Pact between the Principal and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

## Article 6- Duration of the Pact

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.

If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority.

## Article 7- Other Provisions

1. This Pact is subject to Indian Law, place of performance and jurisdiction is the Head quarters of the of the Principal, who has floated the Tender.
2. Changes and supplements need to be made in writing. Side agreements have not been made.
3. If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and





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consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.

4. Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
5. It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Principal in accordance with this Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.

## Article 8- LEGAL AND PRIOR RIGHTS

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

(For and on behalf of Principal)

WITNESSES:

1 .....

(Signature, name and address)

2 .....

(Signature, name and address)

Place:

Date: