



NATIONAL INSTITUTE OF TECHNOLOGY SIKKIM

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

Barfung Block, Ravangla Sub Division, South Sikkim-737139

No: 40/NITS/ECE/SMDP Purchase-2/2018-19/287

Date:23.01.2019

Notice Inviting Quotation

The National Institute of Technology Sikkim invites quotations in sealed envelopes for supply of discrete components and various items for project and research work as per specification below to be addressed to the HOD, ECE Department, NIT Sikkim. The last date for submission of the quotation is 10.02.2019 till 5 P.M.

Brief Description of the goods	Specifications	Quantity	Place of Delivery	Installation requirement
Discrete components and various items.	As per Annexure I		Administrative Block, NIT Sikkim Ravangla South Sikkim	No

Other Terms and Conditions are as under:

1. The quotation shall be in the letterhead of the bidder and must contain the GST& PAN of the bidder.
2. The prices quoted should be FOR NIT Sikkim and must include all incidental charges for delivery up to NIT Sikkim. Taxes if any should be clearly indicated in the quotation. The rates of taxes should be clearly spelt out in the quotation.
3. The material must be delivered within 15 days of the issue of the purchase order. Failure to comply with the same shall result in liquidated damages recovered @ 1% per week.
4. The institute reserves the right to not accept the lowest price as the sole criteria for award of the purchase order. The quality requirement of the institute shall not be compromised in any case. The institute may ask any bidder to submit the sample of the material before award of the order.
5. The institute reserves the right to increase or decrease the quantity of the material depending on the need of the institute.
6. Submission of quotation shall be deemed to be the acceptance of the conditions in this document, the GFR 2017, the Income tax Act 1961 and the GST Act 2017.

-Sd/-

HOD, ECE

Annexure I

Sr.no	Item	Specification	Quantity
1	NPN Transistor	BC 547-3 pin(DIP)	100
2	PNP Transistor	BC 557-3 pin(DIP)	40
3	NPN Transistor	BC 107-3 pin(DIP)	50
4	NPN transistor	2N 2222-3 pin(DIP)	50
5	PNP transistor	BD 140-3 pin(DIP)	40
6	NPN Transistor	BC 108-3 pin(DIP)	40
7	JFET	BFW 10-4 pin(DIP)	70
8	UJT	2N 2646-3 pin(DIP)	60
9	MOSFET	2N 7000-3 pin(DIP)	60
10	Waveform Generator IC	8038-14 pin(DIP)	40
11	Regulator IC	7809-3 pin(DIP)	20
12	Adjustable Voltage regulator	LM 723-14 pin(DIP)	40
13	Phase locked loop	LM 565-14 pin(DIP)	20
14	Timer IC	NE 555-8 pin(DIP)	50
15	Quadruple Op-amp	LM 324-14 pin(DIP)	40
16	Mono/Astable Multivibrator IC	CD 4047-14 pin(DIP)	20
17	Regulator IC	7806-3 pin(DIP)	20
18	JFET input quad Op-amp	TL 084-14 pin(DIP)	20
19	Dual 4 channel MUX/DEMUX	HCF 4052-16 pin(DIP)	20
20	Single 8 channel MUX/DEMUX	HCF 4051-16 pin(DIP)	20
21	NPN Transistor	BF 494-3 pin(DIP)	20
22	D/A Converter	DAC 0800-16 pin(DIP)	10
23	SCR	TK 616-3 pin(DIP)	20
24	Op-amp	LM 741-8 pin(DIP)	100
25	Adjustable voltage regulator	LM 317-3 pin(DIP)	30
26	Power amplifier	LM 386-8 pin(DIP)	20
27	Timer IC	LM 556-14 pin(DIP)	20
28	Dual Output Op-amp	LM 358-8 pin(DIP)	20

Sr.no	Item	Specification	Quantity
29	ADC-A/D converter	0804-20 pin(DIP)	20
30	NOT Gate IC	7404-14 pin(DIP)	100
31	AND Gate IC	7408-14 pin(DIP)	100
32	D flip flop	7474-14 pin(DIP)	100
33	NOR Gate IC	7402-14 pin(DIP)	100
34	OR Gate IC	7432-14 pin(DIP)	100
35	JK Flip Flop IC	7476-14 pin(DIP)	100
36	3 input NAND Gate IC	7410-14 pin(DIP)	100
37	Dual Input NAND Gate I	7400-14 pin(DIP)	100
38	EX-OR Gate IC	7486-14 pin(DIP)	50
39	Multiplexer IC	74153-16 pin(DIP)	20
40	Binary Up-Down counter IC	74193-16 pin(DIP)	20
41	Dual Jk Master Slave Flip Flop	7473-14 pin(DIP)	20
42	4 Bit Shift register	7495-14 pin(DIP)	20
43	4 bit Synchronous Counter	74161-16 pin(DIP)	20
44	Up/Down decade Counter	74192-16 pin(DIP)	20
45	Dual 2-4 Decoder	74139-16 pin(DIP)	20
46	Tactile Switch	6*6*5mm 2 Pin Micro Momentary Push Button Tactile Switch	60
47	Germanium Glass Diode	1N 60($V_F=1V$ at $I_F=5mA$)	60
48	Silicon Diode	BY127($V_F=1.1V$ at 1A)	60
49	P-N Junction Diode	1N4007($V_F=1.1V$ at 1A)	60
50	Zener Diode	4733 A (V_z range:4.8V-5.3V at $I_z=49mA$)	40
51	LED-Red Colour	5 mm , Voltage: 1.8V-2.5V, Current:20mA.	50
52	Ceramic Capacitors	1nF,10nF,100nF,220nF,120pF,10pF,15pF	50 nos.each
53	Electrolytic capacitors	1uF-50v,2.2uF-100v,4.7uF-63v,10uF-50v,22uF-40v,47uF-63v,100uF-25v	50 nos.each
54	Carbon film resistors	1/4 watt , 4 band: 10 Ω ,22 Ω ,33 Ω ,55 Ω ,100 Ω ,200 Ω ,220 Ω ,330 Ω ,470 Ω ,560 Ω ,680 Ω ,820 Ω ,1k Ω ,2.2k Ω ,2.7k Ω ,4.7k Ω ,5.6k Ω ,6.8k Ω ,10k Ω ,16k Ω ,18k Ω ,22k Ω ,33k Ω ,47k Ω ,56k Ω ,68k Ω ,100k Ω ,120k Ω ,220k Ω ,330k Ω ,470k Ω ,1M Ω	50 nos.each

Sr.no	Item	Specification	Quantity
55	Potentiometer	10k Ω ,1M Ω ,10M Ω . Type: Rotary a.k.a Radio POT, Power rating: 0.3 Watt, Max input voltage: 200Vdc.	10 nos. each
56	Inductor	1/4 Watt, 4 Band: 1uH,10uH,100uH,1mH,10mH	15 nos.each.
57	Fuse	White Ceramic Fuse FF for Multimeter,600mA 1000V, 6.3*32mm	20
58	Breadboard Connecting Wires	22 AWG,90 meter(approx)	5 coil
59	Breadboard	Type:Solderless,830 points, 175*67*8 mm.	20
60	Soldering Wire	0.5 mm Lead based solder wire. 60:40 Tin/Lead ratio.	5 roll
61	Soldron	25 Watts/230 volts, Pointed tip.	8
62	De-Soldering Pump	High Quality Metal + Plastic Body.	8
63	Veroboard PCB	192*127 mm,Single Sided Copper.	15
64	Digital Multimeter	Display:6000 Counts, true RMS, Voltage measuring range:0.1mV-600V AC/DC, Current measuring range:0.1 μ A to 10 A AC/DC.	2
65	Analog Ammeter	DC Ammeter. Current Range (0-500uA)	1
66	Analog Voltmeter	DC Voltmeter. Dual Range: Range: (-1) - 0 - 3V DC Range: (-5) - 0 - 15V DC	1
67	Step down Transformer	12V,500mA: 230V(50Hz) to 12V (12-0-12)	10
68	Battery .a)	9V	30
	b)	1.5V-AAA	30
69	Seven Segment Display	Common Anode: 14.2mm green.	15
70	Oscilloscope Test Probe	BNC to Crocodile Probes	45
71	Power Supply test lead	3 A, Banana plugs to crocodile clamps DC power supply test leads(Red and Black)	30
72	2mm banana patch cord with 2mm socket at rear for connection of other 2mm plug	Red Colour,Length:35 cm(approx)	40

Sr.no	Item	Specification	Quantity
73	Digital IC Tester	Should tests wide range of Digital IC's such as 74 Series, 40/45 Series, 24 pin DIP ZIF sockets,16 keys and 16 x 1 line LCD display.	1
74	Wire Cutter	Multitec 150b Wire Stripper and Cutter	3
75	Hard Disk-1 TB	1TB Capacity with NTFS formatted,USB 3.0 High Speed Transfers.	2
76	Screw Driver Set	Screw Driver Set-Taparia 812	1
77	Component Holder Box	Clear Plastic 10 Compartments Electronic Components Storage Box Case Container, size: 22cm*14cm*5cm(approx)	4
78	UPS	Output: 230V,6.2A, 50Hz. 600VA,360 W	5
79	FR4 Substrate (0.8 mm, dual Copper clad)	Glass epoxy, Double sided copper cladding, sheet thickness=0.8mm, copper thickness=35 micron or 70 micron	3
80	FR4 Substrate (1.6 mm, dual Copper clad)	Glass epoxy, Double sided copper cladding, sheet thickness=1.6 mm, copper thickness=35 micron or 70 micron	2
81	FR4 Substrate (0.8 mm, single Copper clad)	Glass epoxy, Single sided copper cladding, sheet thickness=0.8mm, copper thickness=35 micron or 70 micron	2
82	FR4 Substrate (1.6 mm, single Copper clad)	Glass epoxy, Single sided copper cladding, sheet thickness=1.6 mm, copper thickness=35 micron or 70 micron	2
83	RF Connector. a)	50Ω(N to SMA)	1
	b)	50Ω(N to N)	1
84	SMA connectors	Radial Straight 50 ohm Panel Mount SMA Connector, Solder Termination, Female, operating frequency =0-18 GHz, Gold plating	10.
85	Cartridge	Printer Model: HP Laserjet 1020 Plus.	2
86	Analog VSWR Meter	0.2 micro Volts at 200 ohm input impedance for full scale deflection, variable range 0-10 dB, BNC connector for input and output , Range: 0-70 dB in 10 dB steps.	1.

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