



NATIONAL INSTITUTE OF ELECTRONICS
Ministry of Science & Technology
Government of Pakistan
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TENDER NO. 14/2018-NIE

**MISC. COMPONENTS, PARTS & ACCESSORIES FOR THE DEVELOPMENT OF SMOOTH POWER
CONDITIONING- GENERAL PURPOSE LAB**

S. No	Name of item	Specification & Make	Qty	Unit Price	Total Price
1	PCB Drill with Stand	Specifications: -Variable speed Make: Dremel OR Equivalent	01 No.		
2	Crystal Oscillator	Specifications: -6M144Hz Make: Any Reputable firm	20 Nos.		
3	Microcontroller	Specifications: -DSPIC30F2010, with boot loader Microchip Make: Any Reputable firm	15 Nos.		
4	Adjustable Shunt Regulator	Specifications: -TL431 Make: Any Reputable firm	05 Nos.		
5	IC	Specifications: -PC817 Make: Any Reputable firm	05 Nos.		
6	IC	Specifications: -UC3842 Make: Any Reputable firm	05 Nos.		
7	IC	Specifications: -LM7812 Make: Any Reputable firm	05 Nos.		
8	IC	Specifications: -LM7805 Make: Any Reputable firm	05 Nos.		
9	IC	Specifications: -LM324 Make: Any Reputable firm	05 Nos.		
10	IC	Specifications: -TLP250 Make: Any Reputable firm	20 Nos.		
11	Core	Specifications: -PQ-26/25 Make: Any Reputable firm	05 Nos.		
12	Zener Diode	Specifications: -9.1V, 0.25W Make: Any Reputable firm	50 Nos.		
13	Zener Diode	Specifications: -12V, 0.25W Make: Any Reputable firm	50 Nos.		
14	IGBT	Specifications: -IRG4PH50KD Make: Any Reputable firm	05 Nos.		

15	Resistor	Specifications: -680R/0W25 Make: Any Reputable firm	25 Nos.		
16	Resistor	Specifications: -4k7/0W25 Make: Any Reputable firm	25 Nos.		
17	Resistor	Specifications: -220R/0W25 Make: Any Reputable firm	25 Nos.		
18	Resistor	Specifications: -1R/0W5 Make: Any Reputable firm	25 Nos.		
19	Resistor	Specifications: -180k/0W25 Make: Any Reputable firm	25 Nos.		
20	Resistor	Specifications: -1k8/0W25 Make: Any Reputable firm	25 Nos.		
21	Resistor	Specifications: -33R/0W25	25 Nos.		
22	Resistor	Specifications: -150k/0W25 Make: Any Reputable firm	25 Nos.		
23	Resistor	Specifications: -470R/0W25 Make: Any Reputable firm	25 Nos.		
24	Resistor	Specifications: -100k/0W25 Make: Any Reputable firm	25 Nos.		
25	Resistor	Specifications: -10R/0W5 Make: Any Reputable firm	25 Nos.		
26	Resistor	Specifications: -1M2/0W25 Make: Any Reputable firm	50 Nos.		
27	Resistor	Specifications: -1k5/0W25 Make: Any Reputable firm	25 Nos.		
28	Resistor	Specifications: -10K/0W25 Make: Any Reputable firm	50 Nos.		
29	Resistor	Specifications: -70R/0W25 Make: Any Reputable firm	25 Nos.		
30	Resistor	Specifications: -50R/0W25 Make: Any Reputable firm	25 Nos.		
31	Resistor	Specifications: -12k/0W25 Make: Any Reputable firm	25 Nos.		
32	Resistor	Specifications: -1k/0W25 Make: Any Reputable firm	25 Nos.		
33	Resistor	Specifications: -47R/0W25 Make: Any Reputable firm	25 Nos.		

34	Resistor	Specifications: -22k/0W25 Make: Any Reputable firm	50 Nos.		
35	Resistor	Specifications: -10R/0W25 Make: Any Reputable firm	50 Nos.		
36	Resistor	Specifications: -2k/0W25 Make: Any Reputable firm	50 Nos.		
37	Resistor	Specifications: -150R/0W25 Make: Any Reputable firm	25 Nos.		
38	Resistor	Specifications: -20k/0W25 Make: Any Reputable firm	50 Nos.		
39	Resistor	Specifications: -2K2/0W25	50 Nos.		
40	Resistor	Specifications: -100R/2W Make: Any Reputable firm	25 Nos.		
41	Resistor	Specifications: -81K/0W25 Make: Any Reputable firm	25 Nos.		
42	Variable Resistor / Varistor	Specifications: -TVR14561k5/380V Make: Any Reputable firm	10 Nos.		
43	Relay	Specifications: -12VDC, 30A Make: Any Reputable firm	05 Nos.		
44	Transistor	Specifications: -A564 Make: Any Reputable firm	10 Nos.		
45	Transistor	Specifications: -K2039 Make: Any Reputable firm	10 Nos.		
46	Transistor	Specifications: -C828 Make: Any Reputable firm	50 Nos.		
47	Inductor	Specifications: -100uH/1A Make: Any Reputable firm	05 Nos.		
48	Inductor	Specifications: -3mH/10A Make: Any Reputable firm	05 Nos.		
49	Inductor ring cores	Specifications: -0.5 inch dia Make: Any Reputable firm	20 Nos.		
50	Enameled Copper wire	Specifications: -26AWG, 1/2 KG Make: Any Reputable firm	01 No.		
51	Hot Air Gun	Make: Any Reputable firm	01 No.		
52	LED	Specifications: -Multi color, 5mm Make: Any Reputable firm	50 Nos.		

53	Diode	Specifications: -1N5819 Make: Any Reputable firm	20 Nos.		
54	Diode	Specifications: -1N4007 Make: Any Reputable firm	20 Nos.		
55	Diode	Specifications: -BA159 Make: Any Reputable firm	20 Nos.		
56	Diode	Specifications: -1N4148 Make: Any Reputable firm	50 Nos.		
57	Capacitor	Specifications: -15pF/50V Make: Any Reputable firm	30 Nos.		
58	Capacitor	Specifications: -470pF/50V Make: Any Reputable firm	20 Nos.		
59	Capacitor	Specifications: -4700pF/50V Make: Any Reputable firm	20 Nos.		
60	Capacitor	Specifications: -0u1F/50V Make: Any Reputable firm	20 Nos.		
61	Capacitor	Specifications: -10uF/16V Make: Any Reputable firm	20 Nos.		
62	Capacitor	Specifications: -220pF/50V Make: Any Reputable firm	20 Nos.		
63	Capacitor	Specifications: -0u22F/16V Make: Any Reputable firm	20 Nos.		
64	Capacitor	Specifications: -10nF/1kV Make: Any Reputable firm	20 Nos.		
65	Capacitor	Specifications: -0u47F/25V Make: Any Reputable firm	20 Nos.		
66	Capacitor	Specifications: -100uF/16V Make: Any Reputable firm	20 Nos.		
67	Capacitor	Specifications: -100uF/25V Make: Any Reputable firm	20 Nos.		
68	Capacitor	Specifications: -470uF/16V Make: Any Reputable firm	20 Nos.		
69	Capacitor	Specifications: -100uF/450V Make: Any Reputable firm	20 Nos.		
70	Capacitor	Specifications: -2200pF/100V Make: Any Reputable firm	20 Nos.		
71	Capacitor	Specifications: -0u1F/100V Make: Any Reputable firm	60 Nos.		

72	Capacitor	Specifications: -10n/100V Make: Any Reputable firm	20 Nos.		
73	Capacitor	Specifications: -10nF/100V Make: Any Reputable firm	30 Nos.		
74	Capacitor	Specifications: -220uF/16V Make: Any Reputable firm	30 Nos.		
75	Capacitor	Specifications: -0u22F/16V(ELECTROLYTIC) Make: Any Reputable firm	40 Nos.		
76	Capacitor	Specifications: -330uF/16V Make: Any Reputable firm	20 Nos.		
77	Capacitor	Specifications: -100nF/100V Make: Any Reputable firm	20 Nos.		
78	Capacitor	Specifications: -100uF/35V Make: Any Reputable firm	20 Nos.		
79	Capacitor	Specifications: -100nF/50 Make: Any Reputable firm	20 Nos.		
80	Capacitor	Specifications: -1nF/100V Make: Any Reputable firm	20 Nos.		
81	Capacitor	Specifications: -3u3F/400V Make: Any Reputable firm	20 Nos.		
82	Capacitor	Specifications: -0u01F/250V Make: Any Reputable firm	20 Nos.		
83	Capacitor	Specifications: -4700PF/1KV Make: Any Reputable firm	20 Nos.		
84	Current Transformer	Specifications: -30A Make: Any Reputable firm	05 Nos.		
85	Current Transformer	Specifications: -10A Make: Any Reputable firm	05 Nos.		
86	Current Transformer	Specifications: -5A Make: Any Reputable firm	10 Nos.		
87	Connector MFD	Specifications: -IPCC6, 6 pin Make: Any Reputable firm	10 Nos.		
88	Connector MFD	Specifications: -IPCC2, 2 pin Make: Any Reputable firm	10 Nos.		
89	Connector MFD	Specifications: -IPCC3, 3 pin Make: Any Reputable firm	10 Nos.		
90	Buzzer	Specifications: -5V, PCB mount Make: Any Reputable firm	20 Nos.		

91	Thimbles Kit, with crimp tool	Specifications: -Spade, Ring and U Make: Any Reputable firm	02 Nos.		
92	Metal Saw	Make: Any Reputable firm	02 Nos.		
93	Metal Saw Blades	Make: Any Reputable firm	10 Nos.		
94	Diode	Specifications: -Fast Recovery, 20A Make: Any Reputable firm	10 Nos.		
95	Lab Power boards	Specifications: - Wall Mount - 5 universal sockets - 5 Switches with 10A circuit breaker Make: Any reputable firm	10 Nos.		
96	3KVA supply line to Lab	Specifications: -7/64 wire Red, (A/U = Meter) Make: Any reputable firm	30 Nos.		
97	3KVA supply line to Lab	Specifications: -7/64 wire Black, (A/U = Meter) Make: Any reputable firm	30 Nos.		
98	Power Plug	Specifications: -15A, with wall mount board Make: Bosch OR Equivalent	03 Nos.		
99	Circuit Breaker	Specifications: -5A, 1 pole Make: Any reputable firm	03 Nos.		
100	Circuit Breaker	Specifications: -10A, 1 pole Make: Any reputable firm	03 Nos.		
101	Circuit Breaker	Specifications: -30A, 2 pole Make: Any reputable firm	01 No.		
102	Distribution Board with rail	Specifications: -For Circuit breakers 7 breakers Make: Any reputable firm	01 No.		
103	Plastic Sheet Case	Specifications: -6x5x3 inch approx Make: Any reputable firm	01 No.		
104	Plastic Sheet	Specifications: -White Acrylic sheet, 1Mx1M (2mm Thickness) Make: Any reputable firm	05 Nos.		
105	PCB Drill Bit	Specifications: -0.8mm Make: Any reputable firm	10 Nos.		
106	PCB Drill Bit	Specifications: -1.8mm Make: Any reputable firm	10 Nos.		
107	PCB Drill Bit	Specifications: -2mm Make: Any reputable firm	10 Nos.		
108	PCB Drill Bit	Specifications: -2.5mm Make: Any reputable firm	10 Nos.		

109	Heat Sink	Specifications: -3"x5" Make: Any reputable firm	05 Nos.		
110	Power Supply	Specifications: -220V to 12V (1A) Make: Any reputable firm	05 Nos.		
111	Power Supply	Specifications: -200V to 5V (1A) Make: Any reputable firm	05 Nos.		
112	Voltage Regulator	Specifications: -Adjustable 5A -Part No. LM338 Make: Any reputable firm	10 Nos.		
113	Digital Vernier Caliper	Specifications: -20cm Make: Any reputable firm	02 Nos.		
114	Wire Extension Board	Specifications: -with 4 to 6 Sockets Make: Camelion OR Equivalent	10 Nos.		
115	Wire to Board connector	Specifications: -6-way with wire, 2.5mm pitch Make: Any reputable firm	10 Nos.		
116	Straight Connector	Specifications: -2-way with friction lock -Crimp Shell Make: Any reputable firm	50 Nos.		
117	Straight Connector	Specifications: -4-way with friction lock -Crimp Shell Make: Any reputable firm	50 Nos.		
118	Hot Air Gun (Heat Gun)	Specifications: -2000W Make: Any reputable firm	01 No.		
119	Metal File set	Make: Any reputable firm	01 No.		
120	Electrical Safety Gloves	Specifications: -1000V insulation Make: Any reputable firm	03 Nos.		
121	EG8010	Specifications: -PCB Mount	05 Nos.		
122	Line Filter	Specifications: -2 Pin, 4 Pin	04 Nos.		
123	Isopropyl Alcohol	Specifications: -Above 98% gravity Lab grade (5 Liter Container) with dispenser and cleaning brush Make: Any Reputable firm	01 No.		
124	De-soldering wick	Make: Any Reputable firm	03 Nos.		
125	Solder sucker	Make: Any Reputable firm	02 Nos.		
126	Wire Stripper	Make: Any Reputable firm	03 Nos.		
127	Wire Stripper	Make: Any Reputable firm	03 Nos.		
128	Hot Air Gun	Make: Any Reputable firm	02 Nos.		

129	De-Soldering Station	Specifications: SS-331B Make: Pro's kit OR Equivalent	01 No.		
130	Handheld Auto Digital Multi meter	Specifications: -with Temperature measurement Make: UNI-T OR Equivalent	02 Nos.		
131	IC IR2110	Specifications: - IR2110 Make: Any Reputable firm	50 Nos.		
132	Hi link 220V to 5VDC isolated supply	Specifications: -5W Hi-Link HLK-5M05 Make: Any Reputable firm	10 Nos.		
133	Isolated 220V to 12VDC supply	Specifications: -12V 1A isolated bare power supply Make: Any Reputable firm	10 Nos.		
134	PCB Block Terminal	Specifications: -2 Pin Make: Any Reputable firm	100 Nos.		
135	PCB Block Terminal	Specifications: -4 Pin Make: Any Reputable firm	50 Nos.		
136	Heat Sink	Specifications: -TO 220 Make: Any Reputable firm	50 Nos.		
137	USB to Serial converter	Specifications: -Win 10 compatible, with USB cable Make: Any Reputable firm	01 No.		
138	PCB Drill with stand	Specifications: -220-01 workstation with Drill tool and Chuck Make: Dremel OR Equivalent	01 No.		
139	PCB Drill Bits	Specifications: -0.3mm to 1.2mm Make: Any Reputable firm	02 Nos.		
140	PCB Drill Bits	Specifications: -1mm to 3mm Make: Any Reputable firm	01 No.		
141	Crystal 10MHz	Specifications: -10MHz, through hole Make: Any Reputable firm	10 Nos.		
142	Micro Controller DSPIC30F2010	Specifications: -DSPIC30F2010 Make: Any Reputable firm	03 Nos.		
143	Crystal 120MHz	Specifications: -120MHz, through hole Make: Any Reputable firm	05 Nos.		



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TERM & CONDITIONS:

1. Price to be quoted in Pak Rupees on (FOR) free home delivery basis.
2. As the equipment/ items to be procured are based on high tech technology therefore for competitive bidding single stage-two envelopes bidding procedure shall be adopted.
 - (i). the bid shall be comprised a single package containing two separate envelopes, containing separately **“TECHNICAL PROPOSAL”** and **“FINANCIAL PROPOSAL”**.
 - (ii). the envelope shall be marked as **“TECHNICAL PROPOSAL”** and **“FINANCIAL PROPOSAL”** in the **bold, properly sealed and with legible letters** to avoid any confusion.
 - (iii). initially the envelope marked with **“TECHNICAL PROPOSAL”** shall be opened.
 - (iv). the envelope marked with **“FINANCIAL PROPOSAL”** shall be retained in the custody of NIE without being opened.
 - (v). upon evaluation of technical proposals, NIE shall publically open the financial proposal of the technically accepted bids only. The financial proposal of the bids found technically rejected shall be returned un-opened to the respective firms.
3. The bids of the firm operating from their residential address and P.O. Box number will not be considered.
4. Tender number must be specified on the left corner of the bidding envelope.
5. The rates should be valid for at least **“90”** days from the date of tender opening.
6. The offered equipment/ items must be brand new of the original manufacturer and covered under normal warranty/guarantee with necessary back-up support.
7. The bid must be supported with necessary catalogue/ brochure indicating make, model detailed specification and country of origin of the offered equipment.
8. The scope of supplies includes supply of equipment, installation, testing and commissioning of equipment and if necessary training to NIE Personnel's.
9. The financial bid should reflect at sight the following costs separately for fair comparison purpose.
 - i. Unit Price of equipment.
 - ii. GST, if applicable.
10. Conditional/ ambiguous bids will not be entertained.
11. Earnest money @ 2% of quoted prices (Refundable) must be accompanied with tender in shape of a crossed bank draft/ pay order in favour of the Director General NIE.

12. E/M of the successful bidder will be refunded upon submission of prescribe performance/ bank guarantee to NIE and the same shall be released after satisfactory completion of warranty/ guarantee period of the supplied goods.
13. The successful bidder shall provide 5% performance/ bank Guarantee of the total order value of the order to NIE for satisfactory execution of the supply order.
14. The bid found to be lowest evaluated bid shall be accepted only either overall whole tender/items base or each item wise.
15. The estimated delivery/ completion period of supplies/ work must be specified in the quotation.
16. In case of any delay in supplies of ordered items, the successful bidder shall bound to inform NIE to prior to "15" days of the ending of last date of delivery, so that necessary approval regarding extension in delivery period may be obtained from Director General NIE otherwise at the time of payment to firm a penalty @ 2% per month of the total order value will be charged from the successful bidder without any notice.
17. Tender of all items may be awarded either to a single party or can be divided among different parties depending upon their professional capabilities and competitiveness in prices individually.
18. **No advance payment will be made.**
19. NTN and GST number must be mentioned on the quotation along with providing copy of its documentary evidence, failing which bid will not be considered.
20. Payment will be made on submission of the prescribed bill in duplicate through crossed cheque OR through Inland L/C after satisfactory completion of supply order and our acceptance thereof, which includes installation, testing, commissioning of the equipment and training etc. The bill presented on the letterhead of the firm will not be accepted for payment purpose.
21. As per Government Policy payment to the firm is subject to the registration of firm name in **Active Tax Payer List of FBR**, otherwise payment will be stopped till the appearance of vendor name in ATL of FBR.
22. Income Tax/ Sales Tax etc. will be deducted from bill as per Govt. Rules.
23. Last date for receipt of the tender in the Procurement Section of NIE is **June 06, 2018 up to 11:00 hours**. Technical proposals of the received firms shall be opened on the same day at **11:30 hours** in the presence of those who wish to be present. Tenders received late will not be considered in any case.
24. **The Director General NIE reserves the right to accept or reject any or all tenders in part or whole, or change the quantity of tendered items as per provision of PPRA Rules.**

Inam Ullah Khan
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