



NATIONAL INSTITUTE OF ELECTRONICS
Ministry of Science & Technology
Government of Pakistan
17, H-9, Islamabad



Tel: 051-9265009-13 (Ext:217)

Fax: 051-9265027

TENDER NO. 09/2018-NIE
MISC. COMPONENTS FOR DEVELOPMENT OF SMOOTH POWER CONDITIONING
UNIT – SMTPL LAB

S. #	Name of item	Qty	Unit Price	Total Price
1	Solder Sucker Make: Any Reputable firm	05 Nos.		
2	Precision Wire Stripper (30-20 AWG) Part No. CP-301G or equivalent Make: Any Reputable firm	04 Nos.		
3	Precision Wire Stripper (20-10 AWG) Part No. CP-302G or equivalent Make: Any Reputable firm	04 Nos.		
4	Hot Glue Gun Part No. GK-389B or equivalent Make: Any Reputable firm	02 Nos.		
5	USB to Isolated Serial Port Converter 232/ 422/ 485 protocols Part No. ADAM-4561 or equivalent Make: Any Reputable firm	01 No.		
6	Laser Jet cartridge Part No. 83A (HR) or equivalent Make: Any Reputable firm	10 Nos.		
7	Power Extension Boards High Quality Universal type with 5 meter cable Make: Any Reputable firm	10 Nos.		
8	Transformer Winding Machine Portable with digital counter Make: Any Reputable firm	02 Nos.		
9	Transformer Winding Machine Bench Top, for iron core transformers Make: Any Reputable firm	01 No.		
10	LCR Meter Handheld meter Make: Any Reputable firm	02Nos.		
11	Breadboard Make: Any Reputable firm	20 Nos.		
12	PicKit 3 Make: Any Reputable firm	02 Nos.		
13	Digital Multimeter Part # UT 60A Make: Any Reputable firm	04 Nos.		
14	Handheld AC clamp meter Make: Any Reputable firm	02 Nos.		

15	Tungsten Bulb 200 Watts, Threaded Make: Any Reputable firm	20 Nos.		
16	Vernier Caliper – Digital 1ft length Part No. 1103-300 Make: Any Reputable firm	02 Nos.		
17	Soldering Station with multiple tips Make: Any Reputable firm	08 Nos.		
18	Solder Compound Type 3, Leaded (500gm/container) Part No. RMA-20-21t or equivalent Make: Any Reputable firm	02 Nos.		
19	De-Soldering Wick Part No. 8PK-031C or equivalent Make: Any Reputable firm	05 Nos.		
20	Scientific Calculator Part No. 991EX Class wiz or equivalent Make: Any Reputable firm	02 Nos.		
21	Enameled Copper Wire SWG 20, 1kg Make: Any Reputable firm	01 No.		
22	Enameled Copper Wire SWG 24, 1kg Make: Any Reputable firm	01 No.		
23	Enameled Copper Wire SWG 28, 1kg Make: Any Reputable firm	01 No.		
24	Enameled Copper Wire SWG 30, 1kg Make: Any Reputable firm	01 No.		
25	Current Transformer - 10A (4 Pin connection type, 10A) Make: Any Reputable firm	30 Nos.		
26	Current Transformer - 20A (4 Pin connection type, 20A) Make: Any Reputable firm	20 Nos.		
27	Mica Sheet for TO204 package Make: Any Reputable firm	10 Nos.		
28	High Frequency Tape 0.5 inch Make: Any Reputable firm	02 Nos.		
29	High Frequency Tape 1 inch Make: Any Reputable firm	02 Nos.		
30	IC IR2110 Make: Any Reputable firm	150 Nos.		
31	Heat Sink Paste High Density silicon thermal compound Make: Any Reputable firm	10 Nos.		
32	Vero Boards 9 x 15cm, Green Make: Any Reputable firm	20 Nos.		
33	IC MAX232 Make: Any Reputable firm	10 Nos.		
34	IC SG3525A Make: Any Reputable firm	10 Nos.		
35	IC LM35 Make: Any Reputable firm	25 Nos.		

36	IC Base 28 Pins Make: Any Reputable firm	60 Nos.		
37	IC Base 16 Pins Make: Any Reputable firm	50 Nos.		
38	IC Base 8 Pins Make: Any Reputable firm	40 Nos.		
39	Standard Wire 26AWG, 20 Meter Make: Any Reputable firm	01 No.		
40	Standard Wire 24AWG, 20 Meter Make: Any Reputable firm	01 No.		
41	Line Filter socket 220V, 10A dual Make: Any Reputable firm	30 Nos.		
42	EG 8010 Module Sine wave module, without LCD Make: Any Reputable firm	25 Nos.		
43	Solder Tip Part No. 5S1-215N-B Make: Any Reputable firm	02 Nos.		
44	Solder Tip Part No. 5S1-215N-B1.0 Make: Any Reputable firm	01 No.		
45	Solder Tip tinning Part No. 5S1-215N-B1.6D Make: Any Reputable firm	01 No.		
46	Solder tip cleaning Part No. 5S1-215N-2C Make: Any Reputable firm	01 No.		
47	PCB Power Connector Green Screw Mounted, IPC 2 Make: Any Reputable firm	40 Nos.		
48	PCB Power Connector Green Screw Mounted, IPC 3 Make: Any Reputable firm	30 Nos.		
49	PCB Power Connector Green Screw Mounted, IPC 4 Make: Any Reputable firm	30 Nos.		
50	PCB Power Connector Green Screw Mounted, IPC 8 Make: Any Reputable firm	20 Nos.		
51	PCB Block Terminal 2 Pins Make: Any Reputable firm	100 Nos.		
52	PCB Block Terminal 4 Pins Make: Any Reputable firm	50 Nos.		
53	TLP 250 IC Make: Any Reputable firm	125 Nos.		
54	Potentiometer 5k Make: Any Reputable firm	30 Nos.		
55	Potentiometer 10k Make: Any Reputable firm	30 Nos.		
56	Potentiometer 20k Make: Any Reputable firm	30 Nos.		

57	Crystal 19.6608 MHz, through hole Make: Any Reputable firm	80 Nos.		
58	Crystal 32.768 MHz Make: Any Reputable firm	60 Nos.		
59	Crystal 10MHZ Make: Any Reputable firm	20 Nos.		
60	Crystal 25 MHz Make: Any Reputable firm	20 Nos.		
61	Crystal 20 MHz Make: Any Reputable firm	20 Nos.		
62	Crystal 6M144Hz Make: Any Reputable firm	20 Nos.		
63	MPG06D Diode 200V, 1A Make: Any Reputable firm	25 Nos.		
64	2MB150N IGBT Make: Any Reputable firm	10 Nos.		
65	PC817 IC Make: Any Reputable firm	30 Nos.		
66	A564 Transistor Make: Any Reputable firm	10 Nos.		
67	Inductor 150uH/3A, 150uH/3A Make: Any Reputable firm	10 Nos.		
68	MOSFET N IRF510 Make: Any Reputable firm	10 Nos.		
69	LM2576HV-ADJ IC, Adjustable Make: Any Reputable firm	10 Nos.		
70	LM7812/TO IC Make: Any Reputable firm	10 Nos.		
71	LM358 IC Make: Any Reputable firm	10 Nos.		
72	LM78L12 IC Make: Any Reputable firm	12 Nos.		
73	Zener Diode 1N4744 (15V, 0.5 W) Make: Any Reputable firm	50 Nos.		
74	LM79L08 IC Make: Any Reputable firm	20 Nos.		
75	DSPIC30F3011 Microcontroller Make: Any Reputable firm	05 Nos.		
76	DSPIC30F2010 Microcontroller Make: Any Reputable firm	05 Nos.		
77	Variable Resistor 1K, 0.25W Make: Any Reputable firm	05 Nos.		
78	Op Amp LM324 Make: Any Reputable firm	80 Nos.		
79	Regulator LM7805 Make: Any Reputable firm	20 Nos.		
80	IC AD633 Make: Any Reputable firm	20 Nos.		
81	IC TL071 Make: Any Reputable firm	20 Nos.		

82	IC ICL8038 Make: Any Reputable firm	20 Nos.		
83	IC A564 Make: Any Reputable firm	20 Nos.		
84	IC TIP31 Make: Any Reputable firm	20 Nos.		
85	IC UC3842 Make: Any Reputable firm	10 Nos.		
86	IC PC817 Make: Any Reputable firm	10 Nos.		
87	IC TL431 Make: Any Reputable firm	10 Nos.		
88	IC ICL8038 Make: Any Reputable firm	30 Nos.		
89	Capacitor Low ESR, with 5% tolerance Part No. 4700PF/1KV, Ceramic Make: Any Reputable firm	15 Nos.		
90	Capacitor Low ESR, with 5% tolerance Part No. 0u01F/250V Make: Any Reputable firm	50 Nos.		
91	Capacitor Low ESR, with 5% tolerance Part No. 3u3F/400V Make: Any Reputable firm	60 Nos.		
92	Capacitor Low ESR, with 5% tolerance Part No. 1nF/100V Make: Any Reputable firm	60 Nos.		
93	Capacitor Low ESR, with 5% tolerance Part No. 100nF/50 Make: Any Reputable firm	50 Nos.		
94	Capacitor Low ESR, with 5% tolerance Part No. 100uF/35V Make: Any Reputable firm	50 Nos.		
95	Capacitor Low ESR, with 5% tolerance Part No. 100nF/100V Make: Any Reputable firm	50 Nos.		
96	Capacitor Low ESR, with 5% tolerance Part No. 330uF/16V, Electrolytic Make: Any Reputable firm	50 Nos.		
97	Capacitor Low ESR, with 5% tolerance Part No. 0u22F/16V, Electrolytic Make: Any Reputable firm	45 Nos.		
98	Capacitor Low ESR, with 5% tolerance Part No. 220uF/16V Make: Any Reputable firm	50 Nos.		
99	Capacitor Low ESR, with 5% tolerance Part No. 10nF/100V Make: Any Reputable firm	100 Nos.		
100	Capacitor Low ESR, with 5% tolerance Part No. 0u1F/100V Make: Any Reputable firm	50 Nos.		

101	Capacitor Low ESR, with 5% tolerance Part No. 2200pF/100V Make: Any Reputable firm	50 Nos.		
102	Capacitor Low ESR, with 5% tolerance Part No. 100uF/450V Make: Any Reputable firm	100 Nos.		
103	Capacitor Low ESR, with 5% tolerance Part No. 470uF/16V Make: Any Reputable firm	100 Nos.		
104	Capacitor Low ESR, with 5% tolerance Part No. 100uF/25V Make: Any Reputable firm	50 Nos.		
105	Capacitor Low ESR, with 5% tolerance Part No. 100uF/16V Make: Any Reputable firm	120 Nos.		
106	Capacitor Low ESR, with 5% tolerance Part No. 0u47F/25V Make: Any Reputable firm	50 Nos.		
107	Capacitor Low ESR, with 5% tolerance Part No. 10nF/1kV Make: Any Reputable firm	80 Nos.		
108	Capacitor Low ESR, with 5% tolerance Part No. 0u22F/16V Make: Any Reputable firm	50 Nos.		
109	Capacitor Low ESR, with 5% tolerance Part No. 220pF/50V Make: Any Reputable firm	50 Nos.		
110	Capacitor Low ESR, with 5% tolerance Part No. 10uF/16V Make: Any Reputable firm	40 Nos.		
111	Capacitor Low ESR, with 5% tolerance Part No. 0u1F/50V Make: Any Reputable firm	50 Nos.		
112	Capacitor Low ESR, with 5% tolerance Part No. 4700pF/50V Make: Any Reputable firm	50 Nos.		
113	Capacitor Low ESR, with 5% tolerance Part No. 470pF/50V Make: Any Reputable firm	75 Nos.		
114	Capacitor Low ESR, with 5% tolerance Part No. 15pF/50V Make: Any Reputable firm	80 Nos.		
115	Capacitor Low ESR, with 5% tolerance Part No. 47uF 25V Make: Any Reputable firm	20 Nos.		
116	Resistor 2.2K Make: Any Reputable firm	100 Nos.		
117	Resistor 4.7Ohm Make: Any Reputable firm	100 Nos.		
118	Diode BA159 Make: Any Reputable firm	50 Nos.		

119	Diode 1N5819 10 Make: Any Reputable firm	40 Nos.		
120	Inductor 100uH/1A Make: Any Reputable firm	40 Nos.		
121	Transistor Part No. K2039 Make: Any Reputable firm	20 Nos.		
122	Transistor Part No. A564 Make: Any Reputable firm	20 Nos.		
123	Voltage Dependent Resistor Part No. TVR14561k5/380V Make: Any Reputable firm	15 Nos.		
124	Transistor Part No. IRG4PH50KD Make: Any Reputable firm	8 Nos.		
125	Zener 12V/0W5 Make: Any Reputable firm	50 Nos.		
126	Zener 9V1 /0W5 B99 Make: Any Reputable firm	50 Nos.		
127	Power supplies 220V to 5V for LCD Part No. HLK - PM01 Make: Any Reputable firm	20 Nos.		
128	Power supplies 220V to 12V, 2A supply, Isolated , breadboard Make: Any Reputable firm	30 Nos.		
129	Power supplies 220V to 5V, 1A supply, Isolated , breadboard Make: Any Reputable firm	30 Nos.		
130	Ring Core PQ26/25 Make: Any Reputable firm	50 Nos.		
131	Ring Core PQ26/20 Make: Any Reputable firm	20 Nos.		
132	Ring Core PQ26/24 Make: Any Reputable firm	20 Nos.		
133	Ring Cores – Green (Spec: Inner dia = 1" approx, Outer dia = 2" approx) Make: Any Reputable firm	20 Nos.		
134	Ferrite Core ETD 29 with Bobin and 2 x clips Make: Any Reputable firm	20 Nos.		
135	Ferrite Core ETD 48 with Bobin and 2 x clips Make: Any Reputable firm	05 Nos.		
136	Ferrite Core ETD 44 with Bobin and 2 x clips Make: Any Reputable firm	05 Nos.		
137	Ferrite Core ETD 39 with Bobin and 2 x clips Make: Any Reputable firm	05 Nos.		
138	Transformer Paper sheet Make: Any Reputable firm	05 Nos.		
139	Shrink Sleeves 2mm (Black) Make: Any Reputable firm	10 Nos.		

140	Shrink Sleeves 2mm (Black) Make: Any Reputable firm	20 Nos.		
141	Shrink Sleeves 2mm (Red) Make: Any Reputable firm	20 Nos.		
142	Shrink Sleeves 3mm (Black) Make: Any Reputable firm	20 Nos.		
143	Shrink Sleeves 5mm (Black) Make: Any Reputable firm	20 Nos.		
144	Shrink Sleeves 5mm (Red) Make: Any Reputable firm	20 Nos.		
145	Shrink Sleeves 7mm (Black) Make: Any Reputable firm	10 Nos.		
146	Shrink Sleeves 10mm (Black) Make: Any Reputable firm	10 Nos.		
147	PCB Push Buttons 2 pin, SPST, 50mA, 30V Make: Any Reputable firm	50 Nos.		
148	Push Button (Tactile) PCB Mount, small, 4 pins Make: Any Reputable firm	50 Nos.		
149	Zif Socket Make: Any Reputable firm	05 Nos.		
150	Diode Part No. 1N4007 Make: Any Reputable firm	20 Nos.		
151	Diode Part No. 1N4148 Make: Any Reputable firm	50 Nos.		
152	Shot key Diode Part No. IN5819 Make: Any Reputable firm	20 Nos.		
153	Shot key Diode Part No. FR107 Make: Any Reputable firm	100 Nos.		
154	Voltage Regulator AdjHV Part No. LM 2575 Adj HV Make: Any Reputable firm	10 Nos.		
155	Power MOSFET Part No. IRFP 840 Make: Any Reputable firm	50 Nos.		
156	Power Mosfet Part No. IRFZ44N Make: Any Reputable firm	30 Nos.		
157	Heat Sink Part No. TO 220 Make: Any Reputable firm	50 Nos.		
158	Transistor Part No. C828 Make: Any Reputable firm	60 Nos.		
159	Transistor Part No. BC547 Make: Any Reputable firm	20 Nos.		

160	Power Plug 2 Pin Make: Any Reputable firm	10 Nos.		
161	Cable Tie 6cm (100 PCs / Pack) Make: Any Reputable firm	02 Nos.		
162	Cable Tie 10cm (100 PCs / Pack) Make: Any Reputable firm	02 Nos.		
163	Tie Base Make: Any Reputable firm	02 Nos.		
164	Wire jointer 2 Wires, 220V, 10A Make: Any Reputable firm	100 Nos.		
165	Power socket 3 pin universal type, Panel mount, 220V 10A Make: Any Reputable firm	10 Nos.		



NATIONAL INSTITUTE OF ELECTRONICS
Ministry of Science & Technology
Government of Pakistan
17, H-9, Islamabad



Tel: 051-9265009-13 (Ext: 217)

Fax: 051-9265027

TENDER NO. 09/2018-NIE
MISC. COMPONENTS FOR DEVELOPMENT OF SMOOTH POWER CONDITIONING
UNIT – SMTPL LAB

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 and 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 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 **April 20, 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
Dy. Director Procurement
NIE, Islamabad
Ph: 051-9265009 (Ext: 111)