

**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. 12/2018-NIE****MISC. COMPONENTS, PARTS AND ACCESSORIES FOR BATTERY REGENERATION SYSTEM (BRS)**

S. #	Name of item	Make	Specification	Qty	Unit Price	Total Price
1	Battery Terminals	Any Reputable Brand	RED	100 Nos.		
2	Battery Terminals	“	BLACK	100 Nos.		
3	Crimp Connector	“	6 pin (100th)	100 Nos.		
4	Capacitor (Non Polar)	“	0u1F/50V	250 Nos.		
5	Capacitor (Polar)	“	10uF/25V	200 Nos.		
6	Diode	“	1N4148	100 Nos.		
7	Fuse	“	30A/50V	50 Nos.		
8	Transistor	“	C828	100 Nos.		
9	Transistor	“	2N3055 (TO-3)	300 Nos.		
10	Resistor	“	10k/0W25, 1 % tolerance	500 Nos.		
11	Resistor	“	100R/0W25, 1 % tolerance	100 Nos.		
12	Resistor	“	10R/1W, 1 % tolerance	50 Nos.		
13	Resistor	“	27k/0W25, 1 % tolerance	50 Nos.		
14	Resistor	“	1R/1W, 1 % tolerance	150 Nos.		
15	Resistor	“	2.7k/0W25, 1 % tolerance	50 Nos.		
16	Resistor	“	0R33/5W, 1 % tolerance	150 Nos.		
17	Resistor	“	2k7/0W25, 1 % tolerance	50 Nos.		
18	Resistor	“	1M/0W25, 1 % tolerance	50 Nos.		
19	Resistor	“	22k/0W25, 1 % tolerance	100 Nos.		
20	Shunt Resistor	“	60A/60-mV	50 Nos.		
21	IC	“	Op-Amp LM324	100 Nos.		
22	Bridge Rectifier	“	25A/100V	50 Nos.		
23	Crimp Connector	“	8 pin (100th)	30 Nos.		
24	Capacitor (Polar)	“	10,000uF/100V, 105 degree Celsius, Low ESR	100 Nos.		
25	Capacitor (Non Polar)	“	0u1F/100V, 105 degree Celsius, Low ESR	50 Nos.		
26	Capacitor (Non Polar)	“	100uF/16V, 105 degree Celsius, Low ESR	50 Nos.		
27	MOSFET	“	IRF1010	150 Nos.		
28	Shunt Resistor	“	0R03/25W	50 Nos.		
29	Resistor	“	100R/0W5	50 Nos.		
30	Resistor	“	10R/0W25	150 Nos.		
31	Resistor	“	220R/0W25	50 Nos.		
32	Resistor	“	1k/0W25	100 Nos.		
33	Resistor	“	4k7/0W25	150 Nos.		
34	Resistor	“	270k/0W25	50 Nos.		
35	Resistor	“	5k1/0W25	100 Nos.		
36	Resistor	“	0R01/25W	50 Nos.		
37	Resistor	“	620R/0W25	50 Nos.		
38	Resistor	“	51R/0W25	50 Nos.		
39	Resistor	“	2k2/0W25	150 Nos.		
40	Resistor	“	220k/0W25	50 Nos.		

41	Terminal block	“	20A TERMINAL	100 Nos.		
42	IC	“	LM723	50 Nos.		
43	Opt coupler	“	TLP250	50 Nos.		
44	Zener diode	“	1N4744(15V/0W5)	50 Nos.		
45	Terminal Block	“	3 pin (200th)	50 Nos.		
46	Crimp Connector	“	3 pin (100th)	100 Nos.		
47	IDC Connector	“	10 pin (100th)	50 Nos.		
48	Connector	“	DB9/MALE/RA	50 Nos.		
49	Capacitor (Polar)	“	0u22F/25V	100 Nos.		
50	Capacitor (Polar)	“	2200uF/35V	100 Nos.		
51	Capacitor (Polar)	“	0u47F/35V	100 Nos.		
52	Capacitor (Polar)	“	0u22F/16V	50 Nos.		
53	Capacitor (Polar)	“	10uF/16V	150 Nos.		
54	Capacitor (Polar)	“	1uF/16V	100 Nos.		
55	Capacitor (Non Polar)	“	22pF/50V	150 Nos.		
56	Diode	“	1N4007	150 Nos.		
57	LED	“	RED (5mm)	100 Nos.		
58	LED	“	YELLOW (5mm)	100 Nos.		
59	LED	“	GREEN (5mm)	100 Nos.		
60	Relay	“	6 pin RA (12V/25A)	50 Nos.		
61	Resistor	“	680R/0W25	100 Nos.		
62	Resistor	“	470R/0W25	50 Nos.		
63	Resistor	“	39k/0W25	100 Nos.		
64	Resistor	“	1k2/1W	50 Nos.		
65	Regulator	“	LM7815	50 Nos.		
66	Regulator	“	LM7805	50 Nos.		
67	Regulator	“	LM7915	50 Nos.		
68	IC opamp	“	LM358	50 Nos.		
69	Microcontroller	“	PIC18F452	50 Nos.		
70	IC DAC	“	MAX500	50 Nos.		
71	IC	“	ICL232	50 Nos.		
72	Variable resistor	“	5k/0W25/Multi Turn	50 Nos.		
73	Zener diode	“	3V/0W5	100 Nos.		
74	Crystal	“	20MHz	50 Nos.		
75	Soldering Station	“	60 watt max, Heat control option, Multiple Tips, with cleaning kit & Stand	06 Nos.		
76	Heat Sink	“	5x3 in	100 Nos.		
77	Panel Power Socket	“	Female type 220v/10A	100 Nos.		
78	Panel Power Socket	“	Female type 220v/20A	100 Nos.		
79	Ac Wire	“	90meter role, 14AWG, Multi strands pure copper	03 Nos.		
80	DC Wire	“	RS Pro Red, 25m, 15 AWG	10 Nos.		
81	Wire Sleeve	“	45 Meter	02 Nos.		
82	Standard sized Screws for UPS Box Assembly	“	Nuts, Bolts, Washers 100 sets/box	30 Nos.		
83	Screw Studs	“	Female 1 Inch	100 Nos.		
84	Screw Studs	“	Female 2 Inch	100 Nos.		
85	High Quality Metal Housing	“	Specifications & Dimensions As per Drawing (Attached)	25 Nos.		
86	Heat Sink	“	3inch x 5inch Aluminum Fins	100 Nos.		
87	Heat Sink Paste	“	High Quality	10 Nos.		
88	AC Voltage Transformer	“	Step Down Pure Copper wound, 220v/12-24-48,	30 Nos.		

			3KVA			
89	Digital Multi Meter	“	Type: Professional, Fuse protected, wide range	04 Nos.		
90	LCR Meter	“	Type: Professional, ESR measurement option	03 Nos.		
91	Screw Driver Set	“	12 Piece/Set	06 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. 12/2018-NIE**

**MISC. COMPONENTS, PARTS AND ACCESSORIES FOR BATTERY GENERATION SYSTEM (BTS)**

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