



**TENDER NO. 10/2019-NIE**

**MISC. EQUIPMENT, COMPONENTS AND ACCESSORIES FOR THE “PREPAID GSM BASED ENERGY METER” FOR POWER ELECTRONICS LAB**

Sr. #	Name of Item	Specification	Manufacturer	Qty	Unit Price	Total Price
1	Desktop Computer	<ul style="list-style-type: none"> <li>• Core i7, 7th generation</li> <li>• RAM: 8GB(4GBx2)</li> <li>• HDD: 1TB</li> <li>• Keyboard (Dell KB216t or equivalent)</li> <li>• Mouse (MS116t or equivalent)</li> <li>• WINDOWS 10 pro OEM</li> </ul>	Dell Optiplex 3050 OR Equivalent	1		
2	GSM Module+ Antenna	Mini SIM800L	SimCom or Equivalent	5		
3	3G Module Kit + Antenna	Mini Sim5360E, Board Size 40x40mm 3V TTL & USB interface	SimCom or Equivalent	2		
4	RFID Reader	125Khz RFID module RDM6300	Any Reputed brand	2		
5	RFID Reader	13.56MHz MFRC522 RFID Module	Any Reputed brand	2		
6	RFID Card	125kHz RFID Card compatible with RDM6300	Any Reputed brand	5		
7	RFID Card	13.56MHz RFID Card compatible with MFRC522	Any Reputed brand	5		
8	220uf Capacitor	Surface Mount, Polarized	Any Reputed brand	50		
9	C106 10uF 50V Capacitor	SMD Package 1206	Any Reputed brand	50		
10	4.7uF 50V Capacitor	SMD Package 1206	Any Reputed brand	50		
11	1uF 225 50V SMD Capacitors	SMD Package 1206	Any Reputed brand	50		
12	10uF 105 50V SMD Capacitor	SMD Package 1206	Any Reputed brand	50		
13	100nf .1uF 50V SMD Capacitor	SMD Package 1206	Any Reputed brand	50		
14	22pf SMD Capacitor	SMD Package 1206	Any Reputed brand	50		
15	330uF Capacitor	Surface Mount, Polarized	Any Reputed brand	50		
16	0.47uF Capacitor	SMD Package 1206	Any Reputed brand	50		
17	Relay	5v Relay (30A) 240V operation NT90NCE5CB or equivalent	Any Reputed brand	20		
18	Relay	12v Relay (30 to 40A) 240V operation NT90RHAS or equivalent	Any Reputed brand	20		
19	5110 LCD	LCD compatible with Arduino	Nokia or Equivalent	10		
20	16x2 Green LCD		Any Reputed brand	5		
21	PVC Flexible Keypad 4X4	Compatible with Arduino	Any Reputed brand	5		
22	Bridge Rectifier SMD DB107	1A , 1000V	Any Reputed brand	30		
23	Current Transformer (5A)		Any Reputed brand	10		
24	Current Transformer (10A)	CT1010 or Equivalent	Amgis, LLO or any Equivalent	10		
25	Current Transformer (40A)	CT1040 or Equivalent	Amgis, LLO or Equivalent	10		
26	HLK-PM01 Power Supply	3W	Hi-Link OR Equivalent	15		
27	HLK-5M05 Power Supply	5W	Hi-Link OR Equivalent	15		
28	HLK-5M12 Power Supply	5W	Hi-Link OR Equivalent	15		
29	MDF Wooden board	5ft x 5ft, 5mm thickness	Any Reputed brand	3		

30	MDF Wooden board	5ft x 5ft, 10mm thickness	Any Reputed brand	3		
31	FR107 Fast Recovery Diode	SMD	Any Reputed brand	10		
32	Zener Diode 3.3V	SMD	Any Reputed brand	20		
33	Zener Diode 5.1V	SMD	Any Reputed brand	20		
34	Zener Diode 12V	SMD	Any Reputed brand	20		
35	TMPT2222A NPN Transistor	SMD Package SOT-23	Any Reputed brand	30		
36	SSD1306 LCD	128x64, Through-hole, Compatible with Arduino	Any Reputed brand	10		
37	SSD1306 LCD	128x32, Through-hole, Compatible with Arduino	Any Reputed brand	10		
38	LM358 OP Amp	Package SOP-08	Any Reputed brand	30		
39	OP 07 OP Amp	Package SOP-08	Any Reputed brand	30		
40	LM324 Op Amp	Package SOP-14	Any Reputed brand	30		
41	LM338T	Voltage Regulator	Any Reputed brand	10		
42	DB157 Bridge Rectifier	Surface Mount Package	Any Reputed brand	50		
43	1N4007 Diode	SMD Package DO-214	Any Reputed brand	50		
44	1N4148 Diode	SMD Package DO-214	Any Reputed brand	30		
45	Arduino MKR GSM 1400		Any Reputed brand	1		
46	Arduino MKR 1000 Wi-Fi		Any Reputed brand	2		
47	AMS1117-5.0	5V voltage regulator	Any Reputed brand	10		
48	AMS117-3.3	3.3V voltage regulator	Any Reputed brand	10		
49	PIC18F4550	SMD Package 44-Pin TQFP	Microchip or Equivalent	2		
50	PIC18F2550	SMD Package 28-Pin SOIC	Microchip or Equivalent	2		
51	100 Ohm SMD resistors	Package 1206 1%, 1/4W Resistor	Any Reputed brand	50		
52	120 Ohm SMD resistors	Package 1206 1%, 1/4W Resistor	Any Reputed brand	50		
53	150 Ohm SMD resistors	Package 1206 1%, 1/4W Resistor	Any Reputed brand	50		
54	200 Ohm SMD resistors	Package 1206 1%, 1/4W Resistor	Any Reputed brand	50		
55	220 Ohm SMD resistors	Package 1206 1%, 1/4W Resistor	Any Reputed brand	50		
56	330 Ohm SMD resistors	Package 1206 1%, 1/4W Resistor	Any Reputed brand	50		
57	470 Ohm SMD resistors	Package 1206 1%, 1/4W Resistor	Any Reputed brand	50		
58	1k Ohm SMD resistors	Package 1206 1%, 1/4W Resistor	Any Reputed brand	50		
59	2k Ohm SMD resistors	Package 1206 1%, 1/4W Resistor	Any Reputed brand	50		
60	2.2k Ohm SMD resistors	Package 1206 1%, 1/4W Resistor	Any Reputed brand	50		
61	3.3k Ohm SMD resistors	Package 1206 1%, 1/4W Resistor	Any Reputed brand	50		
62	4.7k Ohm SMD resistors	Package 1206 1%, 1/4W Resistor	Any Reputed brand	50		
63	10k Ohm SMD resistors	Package 1206 1%, 1/4W Resistor	Any Reputed brand	50		
64	22k Ohm SMD resistors	Package 1206 1%, 1/4W Resistor	Any Reputed brand	50		
65	33k Ohm SMD resistors	Package 1206 1%, 1/4W Resistor	Any Reputed brand	50		
66	39k Ohm SMD resistors	Package 1206 1%, 1/4W Resistor	Any Reputed brand	50		
67	47k Ohm SMD resistors	Package 1206 1%, 1/4W Resistor	Any Reputed brand	50		
68	100k Ohm SMD resistors	Package 1206 1%, 1/4W Resistor	Any Reputed brand	50		
69	1M Ohm SMD resistors	Package 1206 1%, 1/4W Resistor	Any Reputed brand	50		
70	1.2M Ohm SMD resistors	Package 1206 1%, 1/4W Resistor	Any Reputed brand	50		
71	Electric suction Nozzle Tip for Xytronix 988D	1mm Tip Hole	Any Reputed brand	1		
72	Electric suction Nozzle Tip for Xytronix 988D	1.5mm Tip Hole	Any Reputed brand	1		
73	SMD LED White	Package 1206 or equivalent	Any Reputed brand	20		
74	SMD LED Red	Package 1206 or equivalent	Any Reputed brand	20		
75	SMD LED Blue	Package 1206 or equivalent	Any Reputed brand	20		
76	SMD LED Yellow	Package 1206 or equivalent	Any Reputed brand	20		
77	SMD LED Green	Package 1206 or equivalent	Any Reputed brand	20		
78	EE10-A1 Switching Power Supply High Frequency Mini Transformer		Any Reputed brand	5		

79	Single phase energy meter water proof casing + Box		Any Reputed brand	4		
80	PIC32MX320F128H	SMD 64-Pin TQFP Package	Any Reputed brand	2		
81	HTM32F3 Discovery board+Tools+Programmer		Any Reputed brand	1		
82	USB Bus conversion Chip	CH340	Any Reputed brand	2		
83	USB Flash Drive with Metal Casing	32GB, USB 3.0	HP or Equivalent	1		
84	USB Flash Drive with Metal Casing	16GB, USB 3.0	HP or Equivalent	1		
85	RAM	DDR4 compatible with Dell Optiplex 3050	Dell or Equivalent	1		



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**TERM & CONDITIONS:**

1. Price to be quoted in Pak Rupees on free home delivery basis.
2. The scope of supplies includes supply of equipment, installation, testing and commissioning of equipment and training of NIE Personnel's.
3. The bid must be supported with necessary catalogue/ brochure indicating make, model detailed specification and country of origin of the offered equipment.
4. The bid should reflect at sight the following costs separately for fair comparison purpose.
  - Unit Price of equipment.
  - GST, if applicable.
5. Conditional/ ambiguous bids will not be entertained.
6. Earnest money @ 2% of quoted prices (Refundable) must accompany the tender in shape of a crossed bank draft/ pay order in favour of the Director General NIE. E/M of the successful bidder will be refunded after satisfactory completion of supply order.
7. NIE. If required may ask the successful bidder to provide 5% Bank Guarantee for satisfactory execution of the supply order.
8. The bids of the firm operating from P.O. Box number will not be considered.
9. Tender number must be specified on the left corner of the tender envelope.
10. The rates should be valid for at least "90" days from the tender opening date.
11. The offered equipment/ items must be brand new of the original manufacturer and covered under normal warranty/guarantee with necessary back-up support.
12. The estimated delivery/ completion period of supplies/ work must be specified in the quotation.
13. The bid found to be lowest evaluated bid shall be accepted only either overall whole tender/items base or each item wise.
14. In case of late delivery/ completion in supplies/ work, a penalty @ 2% per month of the total order value will be charged from the successful bidder without any notice.
15. **Part supply and advance payment is not acceptable.**
16. 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.
17. 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.

18. 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. The bill presented on the letterhead of the firm will not be accepted for payment purpose.
19. Income Tax/ Sales Tax etc. will be deducted from bill as per Govt. Rules.
20. Last date for receipt of the tender in the office of the Deputy Director (Procurement) is **May 30, 2019** up to **11:00 hours**. Tenders will 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.
21. 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.

**Suhail Ahmed Shami**  
**Deputy Director Procurement**  
**NIE, Plot-17, H-9, Islamabad**  
**Ph: 051-9265009-13 (Ext: 217)**