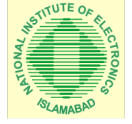




NATIONAL INSTITUTE OF ELECTRONICS
Ministry of Science & Technology
 Government of Pakistan
 17, H-9, Islamabad



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

Fax: 051-9265027

TENDER NO. 13/2018-NIE
MISC. COMPONENTS, PARTS & ACCESSORIES FOR REMOTE TERMINAL UNIT (RTU)

S. #	Name of item	Specifications	Make	Qty	Unit Price	Total Price
1	Coin Cell Holder	Cell Holder Part No. BC2032-E2-ND	Any Reputable brand	20 Nos.		
2	Buzzer	+5V DC Part No. 102-1200-1-ND	“ “ “ “ “ “ “ “	20 Nos.		
3	Connector (Male with wire)	Crimp2P(2mm/300mm) Part No. 0151360203-ND	“ “ “ “ “ “ “ “	50 Nos.		
4	Connector (Female with wire)	Crimp2P(2mm/300mm) Part No. S9443-ND	“ “ “ “ “ “ “ “	50 Nos.		
5	Connector	SIP2P(2.54mm) Part No. 952-2262-ND	“ “ “ “ “ “ “ “	25 Nos.		
6	Sensor	DHT11 Part No. 1528-1228-ND	“ “ “ “ “ “ “ “	15 Nos.		
7	Connector(Male)	Crimp3P(2mm/300mm) Part No. 0151360303-ND	“ “ “ “ “ “ “ “	30 Nos.		
8	Connector(PCB Mount Female with wire)	Crimp3P(2mm/300mm) Part No. A98764-ND	“ “ “ “ “ “ “ “	30 Nos.		
9	Connector	RJ45-ETHERNET Part No. 1278-1011-ND	“ “ “ “ “ “ “ “	15 Nos.		
10	Connector(Male)	CRIMP6P(2mm/300mm) Part No. 0151360603-ND	“ “ “ “ “ “ “ “	30 Nos.		
11	Connector(PCB Mount Female with wire)	CRIMP6P(2mm/300mm) Part No. A98767-ND	“ “ “ “ “ “ “ “	30 Nos.		
12	Connector(Male)	Crimp4P(2mm/300mm) Part No. 0151360403-ND	“ “ “ “ “ “ “ “	20 Nos.		
13	Connector(PCB Mount Female with wire)	Crimp4P(2mm/300mm) Part No. A98765-ND	“ “ “ “ “ “ “ “	20 Nos.		
14	Terminal Block Connector	TB_3.5mm Part No. 277-6834-ND	“ “ “ “ “ “ “ “	250 Nos.		
15	Current Transformer	5A Part No. 237-1628-ND	“ “ “ “ “ “ “ “	20 Nos.		
16	Capacitor Polar	220uF/35V Part No. 493-2205-1-ND	“ “ “ “ “ “ “ “	20 Nos.		
17	Capacitor Polar	0u22F/50V(3216) Part No. 478-2376-1-ND	“ “ “ “ “ “ “ “	20 Nos.		
18	Capacitor Polar	0u22F/25V(2012) Part No. TAJR224K025RNJ-ND	“ “ “ “ “ “ “ “	20 Nos.		
19	Capacitor Polar	47uF/25V(7353H) Part No. 399-3797-1-ND	“ “ “ “ “ “ “ “	20 Nos.		
20	Capacitor Polar	0U47F/25V(3216) Part No. 399-3695-1-ND	“ “ “ “ “ “ “ “	20 Nos.		
21	Capacitor Polar	220uF/16V Part No. 493-2179-1-ND	“ “ “ “ “ “ “ “	20 Nos.		
22	Capacitor Polar	10uF/16V(3528) Part No. 399-3708-1-ND	“ “ “ “ “ “ “ “	60 Nos.		

23	Capacitor Polar	2.2uF/16V(3216) Part No. 478-8250-1-ND	“ “ “ “ “ “ “ “	20 Nos.		
24	Capacitor Polar	0u22F/25V(2012) Part No. TAJR224K025RNJ-ND	“ “ “ “ “ “ “ “	20 Nos.		
25	Capacitor Non Polar	0u1F/50V(0603) Part No. 399-7845-1-ND	“ “ “ “ “ “ “ “	250 Nos.		
26	Capacitor Polar	470uF/16V Part No. 493-2181-1-ND	“ “ “ “ “ “ “ “	40 Nos.		
27	Capacitor Non Polar	10nF/100V(0603) Part No. 490-4781-1-ND	“ “ “ “ “ “ “ “	60 Nos.		
28	Capacitor Polar	1uF/16V(3216) Part No. 399-3681-1-ND	“ “ “ “ “ “ “ “	60 Nos.		
29	Capacitor Polar	4u7F/16V(3216) Part No. 399-3699-1-ND	“ “ “ “ “ “ “ “	40 Nos.		
30	Capacitor Non Polar	20pF/50V(0603) Part No. 1276-1187-1-ND	“ “ “ “ “ “ “ “	40 Nos.		
31	Capacitor Non Polar	18pF/50V(0603) Part No. 1276-1089-1-ND	“ “ “ “ “ “ “ “	40 Nos.		
32	Capacitor Non Polar	10nF/50V(0603) Part No. 399-1091-1-ND	“ “ “ “ “ “ “ “	40 Nos.		
33	Capacitor Non Polar	2200pF/100V(0603) Part No. 445-1300-1-ND	“ “ “ “ “ “ “ “	60 Nos.		
34	Capacitor Polar	330uF/16V Part No. PCE3789CT-ND	“ “ “ “ “ “ “ “	20 Nos.		
35	Capacitor Non Polar	100nF/100V(0603) Part No. 445-6938-1-ND	“ “ “ “ “ “ “ “	30 Nos.		
36	Capacitor Polar	100uF/16v(7353H) Part No. 399-3770-1-ND	“ “ “ “ “ “ “ “	20 Nos.		
37	Capacitor Non Polar	1nF/100V(0603) Part No. 490-4780-1-ND	“ “ “ “ “ “ “ “	20 Nos.		
38	Diode	S3M/DO214AC Part No. S3MFSCCT-ND	“ “ “ “ “ “ “ “	30 Nos.		
39	Diode Schottky	1N5822/DO214AC Part No. SS34FSCT-ND	“ “ “ “ “ “ “ “	20 Nos.		
40	Diode	LL4148 Part No. LL4148FSCT-ND	“ “ “ “ “ “ “ “	60 Nos.		
41	Sip Header	Test Point pin Part No. 609-3466-ND	“ “ “ “ “ “ “ “	20 Nos.		
42	Sip Header	Test Point pin Part No. 609-3466-ND	“ “ “ “ “ “ “ “	20 Nos.		
43	Sip Header	Test Point pin Part No. 609-3466-ND	“ “ “ “ “ “ “ “	20 Nos.		
44	Sip Header	Test Point pin Part No. 609-3466-ND	“ “ “ “ “ “ “ “	20 Nos.		
45	Connector (Male)	IDC26P 1.27mm Part No. F/1175-1654-NDx2	“ “ “ “ “ “ “ “	30 Nos.		
46	Connector (Female)	IDC26P 1.27mm Part No. MR/1175-1746-NDx1	“ “ “ “ “ “ “ “	30 Nos.		
47	Connector	IDC26P 1.27mm Part No. MV/1175-1745-NDx1	“ “ “ “ “ “ “ “	30 Nos.		
48	Ribbon Cable	26 lines (100 Meter length) Part No. CN2222GR-100-ND	“ “ “ “ “ “ “ “	2 Nos.		
49	LED	RED(0805) Part No. 475-1278-1-ND	“ “ “ “ “ “ “ “	30 Nos.		
50	LED	GREEN(0805) Part No. 475-1410-1-ND	“ “ “ “ “ “ “ “	30 Nos.		
51	Inductor Chowk	100uH@4A/SMT Part No. 553-3606-1-ND	“ “ “ “ “ “ “ “	20 Nos.		
52	Inductor	10uH/(0805) Part No. 445-6762-1-ND	“ “ “ “ “ “ “ “	20 Nos.		
53	Opto Coupler	PS2501-1(SOIC) Part No. PS2501L-1-F3-L-ACT-	“ “ “ “ “ “ “ “	75 Nos.		

		ND				
54	Transistor NPN	MMBT2222A(SOT-23) Part No. MMBT2222ALT1GOSCT-ND	“ “ “ “ “ “ “ “	120 Nos.		
55	Relay	12V5A Part No. PB2168-ND	“ “ “ “ “ “ “ “	60 Nos.		
56	Resistor(1%)	22k/(0805) Part No. 311-22.0KCRCT-ND	“ “ “ “ “ “ “ “	70 Nos.		
57	Resistor(1%)	4k7/(0805) Part No. A106065CT-ND	“ “ “ “ “ “ “ “	230 Nos.		
58	Resistor(1%)	6k8/(0805) Part No. 311-6.80KCRCT-ND	“ “ “ “ “ “ “ “	25 Nos.		
59	Resistor(1%)	470R/(0805) Part No. 311-470CRCT-ND	“ “ “ “ “ “ “ “	25 Nos.		
60	Resistor(1%)	680R/(0805) Part No. 311-680CRCT-ND	“ “ “ “ “ “ “ “	70 Nos.		
61	Resistor(1%)	120R/(0805) Part No. 311-120CRCT-ND	“ “ “ “ “ “ “ “	25 Nos.		
62	Resistor(1%)	1k/(0805) Part No. 311-1.00KCRCT-ND	“ “ “ “ “ “ “ “	170 Nos.		
63	Resistor(1%)	5k1/(0805) Part No. 311-5.10KCRCT-ND	“ “ “ “ “ “ “ “	50 Nos.		
64	Resistor(1%)	2k2/(0805) Part No. 311-2.20KCRCT-ND	“ “ “ “ “ “ “ “	60 Nos.		
65	Resistor(1%)	270R/(0805) Part No. 311-270CRCT-ND	“ “ “ “ “ “ “ “	40 Nos.		
66	Resistor(1%)	10k/(0805) Part No. 311-10.0KCRCT-ND	“ “ “ “ “ “ “ “	80 Nos.		
67	Resistor(1%)	3k3/(0805) Part No. RMCFO805FT3K30CT-ND	“ “ “ “ “ “ “ “	80 Nos.		
68	Resistor(1%)	100k/(0805) Part No. 311-100KCRCT-ND	“ “ “ “ “ “ “ “	30 Nos.		
69	Resistor(1%)	2k/(0805) Part No. 311-2.00KCRCT-ND	“ “ “ “ “ “ “ “	120 Nos.		
70	Resistor(1%)	100R/(1206) Part No. 311-100CRCT-ND	“ “ “ “ “ “ “ “	100 Nos.		
71	Resistor(1%)	50R/(0805) Part No. RNCP0805FTD49R9CT-ND	“ “ “ “ “ “ “ “	100 Nos.		
72	Resistor(1%)	1M2/(0805) Part No. 311-1.20MCRCT-ND	“ “ “ “ “ “ “ “	120 Nos.		
73	Resistor(1%)	12k/(0805) Part No. 311-12.0KCRCT-ND	“ “ “ “ “ “ “ “	120 Nos.		
74	Resistor(1%)	10k(0805) Part No. 311-10.0KCRCT-ND	“ “ “ “ “ “ “ “	50 Nos.		
75	Resistor(1%)	51k/(0805) Part No. 311-51.0KCRCT-ND	“ “ “ “ “ “ “ “	40 Nos.		
76	Resistor(1%)	70R/(0805) Part No. 311-69.8CRCT-ND	“ “ “ “ “ “ “ “	40 Nos.		
77	Button	SW_TC_SPST Part No. CKN9112CT-ND	“ “ “ “ “ “ “ “	30 Nos.		
78	Regulator	LM2576-ADJ/TO-263 (SMD) Part No. LM2576HVSX-ADJ/NOPBCT-ND	“ “ “ “ “ “ “ “	50 Nos.		
79	Regulator	LM1084-ADJ/TO 263-3 Part No. LM1084ISX-ADJ/NOPBCT-ND	“ “ “ “ “ “ “ “	50 Nos.		
80	Regulator	LM1117-3V3 Part No. LM1117DTX-3.3/NOPBCT-ND	“ “ “ “ “ “ “ “	50 Nos.		

81	Real time clock ic	DS3231(SOIC) Part No. DS3231M+-ND	“ “ “ “ “ “ “ “	30 Nos.		
82	Micro controller	ATMEGA2560(TQFP100) Part No. ATMEGA2560-16AURCT-ND	“ “ “ “ “ “ “ “	30 Nos.		
83	Buffer IC	74LS07(SOIC) Part No. 296-14877-1-ND	“ “ “ “ “ “ “ “	40 Nos.		
84	Operational Amplifier	LM324(SOIC) Part No. 497-1580-1-ND	“ “ “ “ “ “ “ “	80 Nos.		
85	IC	ICL232(SOIC) Part No. ICL232CBEZ-ND	“ “ “ “ “ “ “ “	30 Nos.		
86	Ethernet IC	ENC28J60/(SOIC) Part No. ENC28J60-I/SO-ND	“ “ “ “ “ “ “ “	40 Nos.		
87	Variable resistor	10k/0W25/M.T. Part No. 987-1088-ND	“ “ “ “ “ “ “ “	30 Nos.		
88	Variable resistor	100R/0W25/M.T. Part No. T93YA-100-ND	“ “ “ “ “ “ “ “	30 Nos.		
89	Crystal	16MHz(smd) Part No. XC1776CT-ND	“ “ “ “ “ “ “ “	20 Nos.		
90	Crystal	25MHz(smd) Part No. 535-10235-1-ND	“ “ “ “ “ “ “ “	20 Nos.		
91	COIN CELL	3V COIN CELL Part No. N189-ND	“ “ “ “ “ “ “ “	15 Nos.		
92	RS485 IC	SN75176(SOIC) Part No. 296-1275-1-ND	“ “ “ “ “ “ “ “	45 Nos.		
93	Resistor(1%)	27k/(0805) Part No. 311-27.0KCRCT-ND	“ “ “ “ “ “ “ “	20 Nos.		
94	Resistor(1%)	47k/(0805) Part No. YAG3363CT-ND	“ “ “ “ “ “ “ “	20 Nos.		
95	Diode	1N4007(DO-214AC) Part No. 641-1018-1-ND	“ “ “ “ “ “ “ “	200 Nos.		
96	Zener Diode	6V6/(SOD-323) Part No. PDZVTR6.2BCT-ND	“ “ “ “ “ “ “ “	80 Nos.		
97	Op-Amp	DIP Part No. OPA2340	“ “ “ “ “ “ “ “	50 Nos.		
98	Op-Amp	DIP Part No. AD8226	“ “ “ “ “ “ “ “	50 Nos.		
99	ADC	DIP Part No. ADS1115	“ “ “ “ “ “ “ “	50 Nos.		
100	Coin Cell Holder through hole	Cell Holder CR 2032	“ “ “ “ “ “ “ “	4 Nos.		
101	Buzzer through hole	+5V DC	“ “ “ “ “ “ “ “	04 Nos.		
102	Connector through hole	Crimp shell 2Pin	“ “ “ “ “ “ “ “	08 Nos.		
103	Connector through hole	Crimp shell 3Pin	“ “ “ “ “ “ “ “	04 Nos.		
104	Connector through hole	Crimp shell 4Pin	“ “ “ “ “ “ “ “	08 Nos.		
105	Connector through hole	Crimp shell 6Pin	“ “ “ “ “ “ “ “	08 Nos.		
106	Connector through hole	SIP2P(2.54mm)	“ “ “ “ “ “ “ “	04 Nos.		
107	Sensor through hole	DHT11	“ “ “ “ “ “ “ “	04 Nos.		
108	Connector through hole	RJ45-ETHERNET	“ “ “ “ “ “ “ “	04 Nos.		
109	Terminal Block Connector through hole	2 pin	“ “ “ “ “ “ “ “	64 Nos.		
110	Current Transformer through hole	5A	“ “ “ “ “ “ “ “	04 Nos.		
111	DSPIC 30F301		“ “ “ “ “ “ “ “	10 Nos.		

112	DSPIC 30F2010		“ “ “ “ “ “ “ “	10 Nos.		
113	Capacitor Polar through hole	220uF/35V	“ “ “ “ “ “ “ “	04 Nos.		
114	Capacitor Polar through hole	0u22F/50V	“ “ “ “ “ “ “ “	04 Nos.		
115	Capacitor Polar through hole	0u22F/25V	“ “ “ “ “ “ “ “	04 Nos.		
116	Capacitor Polar through hole	47uF/25V	“ “ “ “ “ “ “ “	04 Nos.		
117	Capacitor Polar through hole	0U47F/25V	“ “ “ “ “ “ “ “	04 Nos.		
118	Capacitor Polar through hole	220uF/16V	“ “ “ “ “ “ “ “	04 Nos.		
119	Capacitor Polar through hole	10uF/16V	“ “ “ “ “ “ “ “	04 Nos.		
120	Capacitor Polar through hole	2.2uF/16V	“ “ “ “ “ “ “ “	04 Nos.		
121	Capacitor Polar through hole	0u22F/25V	“ “ “ “ “ “ “ “	04 Nos.		
122	Capacitor Non Polar through hole	0u1F/50V	“ “ “ “ “ “ “ “	64 Nos.		
123	Capacitor Polar through hole	470uF/16V	“ “ “ “ “ “ “ “	08 Nos.		
124	Capacitor Non Polar through hole	10nF/100V	“ “ “ “ “ “ “ “	16 Nos.		
125	Capacitor Polar through hole	1uF/16V	“ “ “ “ “ “ “ “	16 Nos.		
126	Capacitor Polar through hole	4u7F/16V	“ “ “ “ “ “ “ “	08 Nos.		
127	Capacitor Non Polar through hole	20pF/50V	“ “ “ “ “ “ “ “	08 Nos.		
128	Capacitor Non Polar through hole	18pF/50V	“ “ “ “ “ “ “ “	08 Nos.		
129	Capacitor Non Polar through hole	10nF/50V	“ “ “ “ “ “ “ “	08 Nos.		
130	Capacitor Non Polar through hole	2200pF/100V	“ “ “ “ “ “ “ “	16 Nos.		
131	Capacitor Polar through hole	330uF/16V	“ “ “ “ “ “ “ “	04 Nos.		
132	Capacitor Non Polar through hole	100nF/100V	“ “ “ “ “ “ “ “	08 Nos.		
133	Capacitor Polar through hole	100uF/16v	“ “ “ “ “ “ “ “	04 Nos.		
134	Capacitor Non Polar through hole	1nF/100V	“ “ “ “ “ “ “ “	04 Nos.		
135	Optocoupler	TLP250	“ “ “ “ “ “ “ “	30 Nos.		
136	Optocoupler	PC817	“ “ “ “ “ “ “ “	35 Nos.		
137	Diode through hole	1N5408	“ “ “ “ “ “ “ “	08 Nos.		
138	Diode Schottky through hole	1N5822	“ “ “ “ “ “ “ “	04 Nos.		
139	Diode through hole	1N4148	“ “ “ “ “ “ “ “	20 Nos.		
140	Round hookable Test Point through hole	Multi Color	“ “ “ “ “ “ “ “	200 Nos.		
141	Connector (Male) through hole	IDC26P cable mount	“ “ “ “ “ “ “ “	08 Nos.		
142	Connector (Female) through hole	IDC26P PCB Mount	“ “ “ “ “ “ “ “	08 Nos.		

143	Ribbon Cable through hole	26 lines	“ “ “ “ “ “ “ “	04 Nos.		
144	Inductor Choke through hole	100uH@4A	“ “ “ “ “ “ “ “	04 Nos.		
145	Inductor through hole	10uH	“ “ “ “ “ “ “ “	08 Nos.		
146	Opto Coupler through hole	PS2501-1 (PC817)	“ “ “ “ “ “ “ “	20 Nos.		
147	Transistor NPN through hole	2222A	“ “ “ “ “ “ “ “	28 Nos.		
148	Relay through hole	12V5A	“ “ “ “ “ “ “ “	16 Nos.		
149	Resisor	250 ohm instrumentation resistance	“ “ “ “ “ “ “ “	100 Nos.		
150	Resistor(1%) through hole	22k	“ “ “ “ “ “ “ “	20 Nos.		
151	Resistor(1%) through hole	4k7	“ “ “ “ “ “ “ “	68 Nos.		
152	Resistor(1%) through hole	6k8	“ “ “ “ “ “ “ “	04 Nos.		
153	Resistor(1%) through hole	470R	“ “ “ “ “ “ “ “	04 Nos.		
154	Resistor(1%) through hole	680R	“ “ “ “ “ “ “ “	20 Nos.		
155	Resistor(1%) through hole	120R	“ “ “ “ “ “ “ “	04 Nos.		
156	Resistor(1%) through hole	1k	“ “ “ “ “ “ “ “	44 Nos.		
157	Resistor(1%) through hole	5k1	“ “ “ “ “ “ “ “	04 Nos.		
158	Resistor(1%) through hole	2k2	“ “ “ “ “ “ “ “	12 Nos.		
159	Resistor(1%) through hole	270R	“ “ “ “ “ “ “ “	08 Nos.		
160	Resistor(1%) through hole	10k	“ “ “ “ “ “ “ “	16 Nos.		
161	Resistor(1%) through hole	3k3	“ “ “ “ “ “ “ “	16 Nos.		
162	Resistor(1%) through hole	100k	“ “ “ “ “ “ “ “	04 Nos.		
163	Resistor(1%) through hole	2k	“ “ “ “ “ “ “ “	24 Nos.		
164	Resistor(1%) through hole	100R	“ “ “ “ “ “ “ “	08 Nos.		
165	Resistor(1%) through hole	50R	“ “ “ “ “ “ “ “	20 Nos.		
166	Resistor(1%) through hole	1M2	“ “ “ “ “ “ “ “	32 Nos.		
167	Resistor(1%) through hole	12k	“ “ “ “ “ “ “ “	24 Nos.		
168	Resistor(1%) through hole	10k	“ “ “ “ “ “ “ “	04 Nos.		
169	Resistor(1%) through hole	51k	“ “ “ “ “ “ “ “	08 Nos.		
170	Resistor(1%) through hole	70R	“ “ “ “ “ “ “ “	04 Nos.		
171	Button through hole	SW_TC_SPST	“ “ “ “ “ “ “ “	04 Nos.		
172	Regulator through hole	LM2576-ADJ	“ “ “ “ “ “ “ “	04 Nos.		
173	Regulator through hole	LM1084-ADJ	“ “ “ “ “ “ “ “	04 Nos.		

174	Regulator through hole	LM1117-3V3	“ “ “ “ “ “ “ “	04 Nos.		
175	Real time clock ic through hole	DS3231 module	“ “ “ “ “ “ “ “	04 Nos.		
176	Micro controller through hole	MEGA2560 Pro with breakout board	“ “ “ “ “ “ “ “	04 Nos.		
177	Buffer IC through hole	74LS07	“ “ “ “ “ “ “ “	04 Nos.		
178	Operational Amplifier through hole	LM324	“ “ “ “ “ “ “ “	50 Nos.		
179	IC through hole	ICL232	“ “ “ “ “ “ “ “	04 Nos.		
180	Ethernet IC module through hole	ENC28J60 module	“ “ “ “ “ “ “ “	04 Nos.		
181	Variable resistor through hole	10k/0W25/Multi Turn	“ “ “ “ “ “ “ “	04 Nos.		
182	Variable resistor through hole	100R/0W25/Multi Turn	“ “ “ “ “ “ “ “	04 Nos.		
183	Crystal through hole	16MHz	“ “ “ “ “ “ “ “	04 Nos.		
184	Crystal through hole	25MHz	“ “ “ “ “ “ “ “	04 Nos.		
185	COIN CELL through hole	3V COIN CELL CR 2032	“ “ “ “ “ “ “ “	04 Nos.		
186	RS485 IC through hole	SN75176	“ “ “ “ “ “ “ “	08 Nos.		
187	RS485 Module through hole	SN75176 module	“ “ “ “ “ “ “ “	08 Nos.		
188	Resistor(1%) through hole	27k	“ “ “ “ “ “ “ “	04 Nos.		
189	Resistor(1%) through hole	47k	“ “ “ “ “ “ “ “	04 Nos.		
190	Diode through hole	1N4007	“ “ “ “ “ “ “ “	32 Nos.		
191	Zener Diode through hole	6.6 V	“ “ “ “ “ “ “ “	16 Nos.		
192	Hexagonal Brass spacers	M3, 5mm	“ “ “ “ “ “ “ “	100 Nos.		
193	Hexagonal Brass spacers	M3, 10mm	“ “ “ “ “ “ “ “	100 Nos.		
194	MFD Connector	2 pin	“ “ “ “ “ “ “ “	100 Nos.		
195	Data Modem kit	1W, 2.4GHz, Freq hopping (customizable), Serial port comm	“ “ “ “ “ “ “ “	02 Nos.		
196	1553 to Ethernet converter		“ “ “ “ “ “ “ “	01 No.		
197	Remote Terminal Unit		“ “ “ “ “ “ “ “	01 No.		
198	FPGA breakout board	Digilent Arty S7-50 Part No. Digilent Arty S7-50	“ “ “ “ “ “ “ “	02 Nos.		
199	SCADA Station	Core i7, 16GB DDR 4 (Single Chip), 1TB, 21" LED Dell or HP Part No. Optiplex 7050 MT or equivalent	“ “ “ “ “ “ “ “	02 Nos.		

200	SMD Workstation	Power unit WX 2 with 2 channels, soldering irons WXMP and 1 tweezers WXMT along with range of tips Weller or Equivalent Part No. Weller WX2021 or Equivalent	“ “ “ “ “ “ “ “	01 No.		
201	Vacuum Desoldering Station	with multiple tips and cartridge filters	“ “ “ “ “ “ “ “	01 No.		
202	Solder Paste	Part No. RMA-20-21T, 250g	“ “ “ “ “ “ “ “	02 Nos.		
203	Flux Pen		“ “ “ “ “ “ “ “	05 Nos.		
204	Silicon Conformal Coating with brush	1000ml	“ “ “ “ “ “ “ “	05 Nos.		
205	Acrylic Conformal Coating with brush	1000ml	“ “ “ “ “ “ “ “	03 Nos.		
206	ESD Cleaning Brush		“ “ “ “ “ “ “ “	05 Nos.		
207	Vacuum Pickup Pencil	Different/Mix sizes	“ “ “ “ “ “ “ “	02 Nos.		
208	Smoke Absorber		“ “ “ “ “ “ “ “	02 Nos.		
209	Earthing Wrist Strap		“ “ “ “ “ “ “ “	05 Nos.		
210	Bench top Magnifier with lamp		“ “ “ “ “ “ “ “	02 Nos.		
211	Handheld Magnifier with light		“ “ “ “ “ “ “ “	02 Nos.		
212	Earthing wire	Pure Copper, 50 meter length Part No. 12 AWG	“ “ “ “ “ “ “ “	01 No.		
213	Earth Ground Test meter	3-pole earth ground resistance, 2-pole ac resistance of a conductor, Interference voltage Part No. Min measuring 0.1 Ohm	“ “ “ “ “ “ “ “	01 No.		
214	Digital Multimeter	Handheld Fluke or Keysight	“ “ “ “ “ “ “ “	01 No.		
215	Tweezer tools for SMD Pack of 5	Antistatic Ceramic tweezers	“ “ “ “ “ “ “ “	03 Nos.		
216	USB to Isolated Serial Port Converter	232/422/485 protocols Advantech Part No. ADAM-4561 or equivalent	“ “ “ “ “ “ “ “	03 Nos.		
217	Wifi Router		“ “ “ “ “ “ “ “	02 Nos.		
218	Ethernet Switch	Part No. Gigabit, 08 ports	“ “ “ “ “ “ “ “	01 No.		
219	Ethernet Switch	Part No. Gigabit, 04 ports	“ “ “ “ “ “ “ “	02 Nos.		
220	USB Wifi device		“ “ “ “ “ “ “ “	03 Nos.		
221	Calculators		“ “ “ “ “ “ “ “	02 Nos.		

222	Raspberry Pi 3B+	Complete Kit, including Casing, Power supply, 16GB card, HDMI Cable, Keyboard, Mouse	“ “ “ “ “ “ “ “	02 Nos.		
223	Memory Card (32 GB)	Speed: 98MB/s Part No. 32GB Sandisk ULTRA A1 microSD UHS-I or equivalent	“ “ “ “ “ “ “ “	02 Nos.		
224	LCD Screen	21" HDMI Interface	“ “ “ “ “ “ “ “	02 Nos.		
225	HDMI Cable	1 Meter length	“ “ “ “ “ “ “ “	02 Nos.		
226	Raspberry Pi camera	IMX219 sensor,8 megapixel	“ “ “ “ “ “ “ “	01 No.		
227	Raspberry Pi 37 Sensor Kit 2.0		“ “ “ “ “ “ “ “	01 No.		
228	Ruggedized USB drive for outdoor installation	EPDM water seal, Shock proof Part No. Gorilla Drive, Corsair Survivor 32GB USB 3.0 or equivalent	“ “ “ “ “ “ “ “	02 Nos.		
229	PQ2625 core + Bobin + casing		“ “ “ “ “ “ “ “	10 Nos.		
230	Turntable IC Rack floor standing	minimum 200 space	“ “ “ “ “ “ “ “	01 No.		
231	PCB Rack with cover		“ “ “ “ “ “ “ “	02 Nos.		
232	Dremel PCB Drill with Stand	220-01 WorkStation	“ “ “ “ “ “ “ “	01 No.		
233	Drill Machine 3/4" chuck		“ “ “ “ “ “ “ “	01 No.		
234	Drill Bits set	Standard pack, mm	“ “ “ “ “ “ “ “	02 Nos.		
235	KEP Server software		“ “ “ “ “ “ “ “	01 No.		
236	Factory I/O	Ultimate Edition - Lifetime	“ “ “ “ “ “ “ “	01 No.		



TENDER NO. 13/2018-NIE
MISC. COMPONENTS, PARTS & ACCESSORIES FOR REMOTE TERMINAL UNIT (RTU)

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