



TENDER No. 03/COMM LAB (NDP)/2024-25/NIE

SUPPLY OF MISC. COMPONENTS, PARTS AND ACCESSORIES FOR COMMUNICATION LAB
UNDER PROPOSAL "IOT BASED SMART HOME APPLIANCES"

Published Date: June 05, 2025

Tender Submission Date: June 20, 2025 at 11:00 AM

Opening of Tender: June 20, 2025 at 11:30 AM



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SECTIONS OF ROCUREMENT

1. **Section I: Invitation to Bids**
2. **Section II: Instructions to Bidders (ITBs)**
This section provides information to help bidders to prepare their bids. Information is also provided on the submission, opening, and evaluation of proposals and on the award of contracts. This section contains provisions that to be used without modifications.
3. **Section III: Bid Data Sheet (BDS)**
4. **Section IV: Eligible Countries**
5. **Section V: Technical Specifications and Schedule of Requirements**
6. **Section VI: Forms – Bid**
7. **Section VII: General Conditions of Contract (GCC)**
8. **Section VIII: Special Conditions of Contract (SCC)**
9. **Section IX: Award of Contract on Judicial Paper**
10. **Section X: Performance Guarantee**
11. **Section XI: Integrity Pact**



Section – I
INVITATION TO BIDDERS

**National Institute of Electronics
Islamabad**



Tender No. 03/ COMM LAB (NDP)/ 2024-25/NIE
for

Supply of Misc. Components, Parts and accessories for Communication Lab under proposal “IoT Based Smart Home Appliances”

Invitation to Bids

Dated: June 05, 2025

1. This Invitation to Bids follows the Procurement Notice (PN) of Procurement Advertisement (PA) Tender No. 03/COMM LAB (NDP)/2024-25/NIE for the subject procurement which appeared on PPRA website via Tender No. 563897E dated 04-06-2025 and NIE website.
2. National Institute of Electronics (NIE) has reserved the funds for the procurement planned during the financial year 2024-2025. It is intended that part of the proceeds of the fund will be used to cover eligible payment under the contract for the contract No. 03/COMM LAB (NDP)/2024-25/NIE.
3. The National Institute of Electronics, Islamabad now invites sealed bids from eligible suppliers for **Supply of Misc. Components, Parts and accessories for Communication Lab.**
4. The bidding shall be in line with the single stage one envelope procedures of the Public Procurement Rules 2004 and any Regulations, Regularity Guides, Procurement Guidelines or Instructions issued by the Authority (from time to time), and is to all potential bidders.
5. All bids must be accompanied by a Bid Security in an acceptable form (pay order/ bank draft/ demand draft), cost of which mentioned in the instructions to bidders (Earnest Money).
6. The original bid along with relevant copies properly filled in, and enclosed in sealed envelopes must be delivered to the address National Institute of Electronics, Plot No. 17, Sector H-9, Room No. E-14, 2nd Floor, Main Building, Islamabad at or before **June 20, 2025** at 11.00 AM. The Technical and Financial bids will be opened promptly thereafter in public and in the presence of bidder's representative who choose to attend in the opening at the given address at 11:30 AM.

Deputy Director
National Institute of Electronics
Islamabad
Phone: 051-9265009-13 (Ext: 217)



SECTION II - INSTRUCTIONS TO BIDDERS

Scope of Proposal

National Institute of Electronics, Islamabad as indicated in the **Bid Data Sheet** (BDS) invites bids for the **Supply of Misc. Components, Parts and accessories for Communication Lab under proposal “IoT Based Smart Home Appliances” for Technical/ Financial proposals & schedule of Requirements**. Bidders will be expected to deliver and complete obligations of the requirement up to its commissioning within the specified period and time line(s) as stated in the bidding documents.

Source of Funds

Federal Government, National Institute of Electronics (NIE) under Ministry of Science & Technology, Islamabad. The payment will be made in Pak Rupees out of Non-Development “Research& Development) funds during current financial year

Eligibility Criteria of Bidders

- ✓ Bidder may be natural person, company or firm or public or semi-public agency of Pakistan or any foreign country, or any combination of them with a formal existing agreement (on Judicial Papers) in the form of a joint venture, consortium, or association.
- ✓ The invitation for Bids is open to all prospective supplier, manufacturers or authorized agents/dealers subject to any provisions of incorporation or licensing by the respective national incorporating agency or statutory body established for that particular trade or business.
- ✓ Foreign Bidders must be locally registered with the appropriate national incorporating body or the statutory body, before participating in the national/international competitive tendering with the exception of such procurement made by the foreign missions of Pakistan. For such purpose the bidder must have to initiate the registration process before the bid submission and the necessary evidence shall be submitted to the procuring agency along with their bid, however, the final award will be subject to the complete registration process subject to following conditions:-
 1. Registered with FBR.
 2. Valid NTN and Registration number.
 3. Authorization certificate from principal abroad.
 4. Certificate of name in ATL List of FBR.

Ineligibility of firms

A bidder/ company will be ineligible, if

- ✓ he is declared bankrupt or, in the case of company or firm, insolvent;
- ✓ payments in favor of the Bidder is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting (in accordance with the national laws) in the total or partial loss of the right to administer and dispose of its property;
- ✓ legal proceedings are instituted against such Bidder involving an order suspending payments and which may result, in accordance with the national laws, in a declaration of bankruptcy or in any other situation entailing the total or partial loss of the right to administer and dispose of the property;
- ✓ the Bidder is convicted, by a final judgment, of any offence involving professional conduct;



- ✓ the Bidder is blacklisted and hence debarred due to involvement in corrupt and fraudulent practices, or performance failure or due to breach of bid securing declaration.
- ✓ The firm, supplier and contractor is blacklisted or debarred by a foreign country, international organization, or other foreign institutions for the period defined by them.

Eligible goods and related services

- ✓ To confirm eligibility, bidders must complete the country of origin declarations in the Form of Bid. If specified in the Bid Data Sheet (BDS), bidders must also provide proof of authorization from the manufacturer to supply the goods in Pakistan or, for procurement by Pakistani Missions abroad, in the respective country because The term “origin” refers to the location where goods are mined, grown, cultivated, manufactured, or processed into a substantially different product with distinct characteristics, or the place from which related services are supplied. The supplier’s nationality does not determine the origin of the goods.
- ✓ All goods and related services supplied under the contract must originate from eligible source countries, and expenditures will be limited to such goods and services. Ineligible countries are already outlined in titled “Eligible Countries.”

One Bid Per Bid

- ✓ Each bidder may submit only one bid, either individually or as part of a joint venture.
- ✓ A bidder cannot act as a subcontractor while also submitting a bid individually or as part of a joint venture.
- ✓ A person or firm cannot serve as a subcontractor for more than one bidder in the same process.

Cost of Bid

- ✓ The Bidder shall bear all costs incurred in the preparation and submission of its Bid. Under no circumstances shall the Procuring Agency be held responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

Tendering Procedure:

Procurement Procedure: Single Stage One Envelope Procedure

Submission of Proposals

- ✓ Proposals to be quoted in Pak Rupees on (FOR) free home delivery basis.
- ✓ E-PADS and NIE tender number must be specified on the left corner of the proposal envelope (Technical and Financial).
- ✓ Firms registered with PPRA at E-PEADS and meeting “**Eligibility Criteria of Bidders**” are authorized to participate in the tender.
- ✓ Bidders should have proper office/ presence in any one major city of Pakistan i.e. Islamabad, Lahore and Karachi etc with documentation proof.
- ✓ Soft copy of proposals shall be submitted at E-PEADS platform and manual copy of the same shall be submitted on the letterhead of the firm to NIE with all required necessary documentation.



- ✓ The equipment offer by the firms should be supported with necessary literature/ catalogue indicating specifications, make, model, country of origin with allied tools etc. with estimated delivery date.
- ✓ Non-Blacklist Affidavit/ Certificate on judicial paper confirming that bidder has never been blacklisted by any government organization.
- ✓ The offered solution must be of latest version and covered under normal warranty/guarantee with necessary back-up support.

Rates Validity

- ✓ The quoted rates must remain valid for a minimum of **60 days** from the tender opening date.

Earnest Money

- ✓ Firms wishing to participate in the tender are required to submit 2% Earnest Money (E/M) @ **Rs. 35482.00** of the estimated prices along with the Technical Proposal. This must be in the form of a crossed bank draft or pay order made payable to the Director General, NIE, as per the following details:

Clarifications of proposals

- ✓ Bidders may contact the following officers, in case any query/ question or clarification about requirement prior to “05” days of opening of proposals:-

Name: Mr. Kamran Larif, PRO/ Incharge (Comm. Lab)

E-mail address: klatif@gmail.com

Name: Mr. Zeeshan Elahi, Research Officer

E-Mail address: zeeshan_elahi@yahoo.com

Visiting Hours

- ✓ Bidders can visit the sight/location from 10:00 AM to 4:00 PM (Monday to Friday) prior to “02” days of submission of proposals.

Technical & Financial Evaluation

- ✓ Bids of the firms will be evaluated on the basis of “**Eligibility Criteria of Bidders**” and criteria mentioned in “**Submission of Proposals**” and item wise quality of items offered by the firm.

Performance Guarantee

- ✓ Earnest Money of the successful bidders will be refunded after provision/submission of 5% performance/ bank guarantee of the order value whatsoever as per format mentioned in Bid Data Sheet.

General Terms & Conditions

- ✓ Conditional or ambiguous bids will not be entertained.
- ✓ The quantity of items in the order may be increased or decreased.



- ✓ No advance payment will be made.
- ✓ Payment will be made upon submission of the prescribed bill in duplicate after satisfactory completion of the supply order and its acceptance by NIE. Bills presented on the firm's letterhead will not be accepted.
- ✓ As per government policy, payment is subject to the firm's registration in the **Active Taxpayer List (ATL)** of the FBR. Payment will be withheld until the firm's name appears in the ATL.
- ✓ Applicable **Income Tax and Sales Tax** will be deducted at source as per government rules.
- ✓ Late submissions of tenders will not be considered.
- ✓ The **Director General, NIE** reserves the right to accept or reject any or all tenders, in part or whole, or to modify the quantities as per **PPRA Rules**.



SECTION-III BID DATA SHEET

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITBs). Whenever there is a conflict, the provisions herein shall prevail over those in ITBs.

S.	Amendments of, and Supplements to, Clauses in the Instruction to Bidders
#	
A. Introduction	
1.	Name of Procuring Agency: National Institute of Electronics, Plot No. 17, H-9, Islamabad The subject of procurement is: Supply of Misc. Components, Parts and accessories for Communication Lab under proposal “IoT Based Smart Home Appliances” Period for delivery of goods: [25-06-2025] Commencement date for completion of contract: [20 days] after signing the contract.
2.	Financial year for the operations of the Procuring Agency: [2024-25] Name of Project: Non-Development funds under proposal “IoT Based Smart Home Appliances” Name of financing institution: [Federal Government] Name and identification number of the Contract: Tender No. 03/COMM LAB (NDP) /2024-25/NIE
3.	Ineligible countries are [India & Israel]
4.	Demonstration by manufacturer: [not required]
B. Bidding Documents	
5.	The number of documents to be completed and returned is only original copy
6.	The address for clarification of Bidding Documents is National Institute of Electronics, Plot No. 17, H-9, Islamabad]
7.	Pre-bid meeting will not held

Preparation of Bids

8.	The Language of all correspondences and documents related to the Bid is English
9.	Make, model and origin of the offered country must be clearly mentioned in Technical and Financial proposals
10.	Characteristics and specifications of offered equipment/ items shall be same or up-graded as mentioned in the form of bid
11.	All necessary and required documents must be attached with original Technical Proposal for evaluation and qualification for opening of Financial Proposals.



12.	The price of the quoted items will be in Pak Rupees inclusive of all taxes and will not change up to payment
13.	Price Validity must be mentioned in the Technical as well as Financial Proposals
14.	Delivery period or Completion time line must be written down in Technical and Financial Proposals.
15.	Back up support of offered equipment/ items must be as per NIE requirement and be incorporated in Technical and Financial proposals.
16.	Authorization letter by the firm who will interact with NIE for execution of contract with complete information such as Name, designation, Mobile number etc.
17.	Amount of bid security in shape of pay orders, bank draft as mentioned in ITB with complete particulars.
18.	Original Technical and Financial Proposal

Submission of Bids

19	Bid shall be submitted at National Institute of Electronics, Plot No. 17, H-9, Room No. E-14, 2nd Floor, Main Building, Islamabad
20	The deadline for Bid submission is Day : Friday Date: June 20, 2025 Time: 11:00 AM

Opening and Evaluation of Bids

21	The Bid opening shall take place at: National Institute of Electronics, Plot No. 17, H-9, Room NO. E-14, 2nd Floor, Main Building, Islamabad Day : Friday Date: June 20, 2025 Time: 11:30 AM
22	Evaluation Techniques Least Cost Based Selection (LCBS) After meeting the requirements of eligibility, qualification and substantial responsiveness, the bid in compliance with all the mandatory (technical) specifications/requirements and/or requisite quality threshold (if any), and having lowest evaluated cost (or financial proposal) shall be considered highest ranked bid.

Award of Contract

23	Ordered quantity can be decreased or increased considering the budgetary position in current financial year.
24	Performance guaranty will be 5 % of the amount of the contract and that will be in form of bank guarantee
25	Arbitrator will be the Director General, NIE



Review of Procurement Decision

26	Bidder can challenge the decision of award of contract within “07” days after the day of announcement of award of contract with grievances on following address:- Director General National Institute of Electronics Plot No. 17, H-9, Islamabad and copy to PPRA on following address: Grievance Redressal Appellate Committee, Public Procurement Regulatory Authority 1st Floor, G-5/2, Islamabad, Pakistan Tel: +92-51-9202254
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SECTION-IV - ELIGIBLE COUNTRIES

- ✓ All the bidders are allowed to participate in the subject procurement without regard to nationality, except bidders of some nationality, prohibited in accordance with policy of the Federal Government.
- ✓ Following countries are ineligible to participate in the procurement process:



1. India
2. Israel

- ✓ Ministry of Interior, Government of Pakistan has notified List of Business Friendly Countries (BVL), information can be accessed through following link:
- ✓ <http://www.dgip.gov.pk/Files/Visa%20Categories.aspx#L>



**SECTION-V – TECHNICAL SPECIFICATION AND QUANTITIES OF SUPPLY OF MISC.
COMPONENTS, PARTS AND ACCESSORIES FOR COMMUNICATION LAB TO BE PROCURED**

S. #	Item Name along with Specifications	Manufacturer	Qty
1.	Controller module Specification: ESP32 NodeMCU 38 Pin	Espressif or equivalent	25
2.	Power Supply Specification: - Part# HLK- 10M05 - Output Volt ; 5V - Power : 10W	Hi-Link or equivalent	25
3.	Power Module Specification: - Part# B0503S-3WR3 - Input Volt : 5V - Output Volt ; 3.3V - Power : 3W	Hi-Link or equivalent	25
4.	OLED Specification: 0.96 inch 128x64 I2C SSD 1306	Any	25
5.	Solenoid Valve with Housing & Accessories Specification: 3V - Gas Stove - Metal - Further Specification will be provided on request	Any	25
6.	Ignition Kit (Instant Geyser) Specification: Voltage : 3V DC	Any	25
7.	Mechanical Fixture – Ignition kit Specification: Specification will be provided on request	Any	25
8.	Water Temperature Sensor Specification: DS 18B20	Any	25
9.	Heating Element Geyser Specification: 1500W - Compatible with geyser	Thermowatt or equivalent	25
10.	Controller module Specification: ESP32 WROOM Chip	Espressif or equivalent	05
11.	Controller PCB Specification: Module adapter board ESP32 WROOM Chip	Any	05
12.	Controller module Specification: D1 mini ESP32	Espressif or equivalent	05
13.	Buck Converter Specification: Hw-411a Lm2596	Any	25
14.	Power Supply	Hi-Link or equivalent	20



	Specification: - Part# HLK- 5M05 - Output Volt ; 5V - Power : 5W		
15.	Power Supply Specification: - Part# HLK- PM01 - Output Volt ; 5V - Power : 3W	Hi-Link or equivalent	20
16.	Power Supply Specification: - Part# HLK- PM03 - Output Volt ; 3.3V - Power : 3W	Hi-Link or equivalent	20
17.	Power Supply Specification: - Part# HLK- 2M03 - Output Volt ; 3.3V - Power : 2W	Hi-Link or equivalent	20
18.	Relay Specification: - Part# SRD-05VDC-SL-C - Coil Volt ; 5V, 10A	Songle or equivalent	25
19.	Relay Specification: - Part# SLI-05VDC-SL-A - Coil Volt : 5V, 30A	Songle or equivalent	25
20.	Relay Specification: - Part# SFK-105DM - Coil Volt : 5V, 20A	Songle or equivalent	10
21.	Opto-coupler Specification: PC817	Any	50
22.	Resistor Specification: 5 Watt 6R8	Any	25
23.	Resistor Specification: 10K Ohm	Any	100
24.	Resistor Specification: 1K Ohm	Any	100
25.	Resistor Specification: 220 Ohm	Any	100
26.	Resistor Specification: 4.7K Ohm	Any	100
27.	Push Button Specification: - Momentary - Round - Black - Panel mount	Any	50



28.	Push Button Specification: • Momentary • DIP	Any	100
29.	Push Button Specification: • Momentary • 6X6X25mm • DIP	Any	50
30.	Block Terminal Specification: • 2 Pin 25A	Any	50
31.	Block Terminal Specification: • 2 Pin • Right Angle	Any	100
32.	Block Terminal Specification: • 4 Pin • Right Angle	Any	50
33.	USB Connector Specification: • 4 Pin • PCB Mount • Female	Any	50
34.	LED Specification: • RED 3mm	Any	50
35.	LED Specification: • BLUE 3mm	Any	50
36.	LED Specification: • GREEN 3mm	Any	50
37.	Capacitor Specification: • 1000uF • Electrolytic	Any	50
38.	Capacitor Specification: • 104 • Polyester	Any	50
39.	Transistor Specification: • 2n2222,DIP	Any	50
40.	Diode Specification: • 1n4007	Any	50
41.	Diode Specification: • 1n5819	Any	50
42.	LED Specification: • RGB, 3mm	Any	50
43.	MOSFET	Any	30



	Specification: IRLZ44N		
44.	PCB Fabrication (Smart Geyser) Specification: - FR-4 - Size: 5.3 In X 3.3 In - Further Specification will be provided on request	Any	25
45.	Customized Enclosure Box (Smart Geyser) Specification: - Size: 8X5X5 Inch - Material : Metal - Water resistant - Further specification will be provided on demand	Any	25
46.	Customized Screen Printing (Smart Geyser) Specification: Specification will be provided on demand	Any	25
47.	Customized Printed Cart Box & User Manual Printing (Smart Geyser) Specification: 10X8X8 inch - Further specification will be provided on demand	Any	25
48.	Customized PCB & Enclosure Box (Smart Extension) Specification: - PCB Size : 5X3 Inch - Enclosure: 3 universal socket 10A & 2 USB port - Further specification will be provided on demand	Any	25
49.	Customized Screen Printing (Smart Extension) Specification: Specification will be provided on demand	Any	25
50.	Customized Printed Cart Box & User Manual Printing (Smart Extension) Specification: Specification will be provided on demand	Any	25
51.	Customized PCB Fabrication (Smart Plug) Specification: - FR-4 - Size 3.8 X 2.3 Inch - Specification will be provided on demand	Any	30
52.	Customized Printed Cart Box & Branding Sticker & User Manual Printing (Smart Plug) Specification: Specification will be provided on demand	Any	30
53.	Wire Specification: - Flexible single core 1mm (40/0076") - Pure Copper 20 meter - Black	Any	01
54.	Wire Specification: - Flexible single core 1mm (40/0076") - Pure Copper 20 meter - Red	Any	01
55.	Wire	Any	01



	Specification: • 7/29, pure copper • Pair • 30 meter		
56.	Epoxy Specification: • Transparent • 500 gm.	Any	05
57.	Silicone sealant Specification: • 310 ml	Any	05
58.	Solder wire Specification: • 400Gm • 63-37	Any	04
59.	Solder remover wick Specification: • 2ft	Any	10
60.	Battery 9V Specification: • Pack of 10 Batteries	Power Plus or equivalent	02
61.	Electric Plug Specification: • 250V – 10A	Any	20
62.	G type to universal Plug Specification: • 10A	Any	5
63.	Veroboard Specification: • 10cm X 24cm, Dotted	Any	20
64.	Female Header Specification: • 2.54mm pitch	Any	20
65.	Jumper wire Dopont Specification: • Male to Female , 40 Pin	Any	05
66.	Jumper wire Dopont Specification: • Male to Male ,40 Pin	Any	05
67.	Jumper wire Dopont Specification: • Female to Female, 40 Pin	Any	05
68.	Battery Specification: • APC BV650I-MSX compatible • Part# DJW12-7.0 (12V 7.0AH)	APC or equivalent	02
69.	RAM Specification: • DDR4 8GB 2133 MHZ • HP Probook 450 G5 Compatible	Any	01
70.	Laptop battery Specification: • HP model Spectre x 360 13ae019nf	HP or equivalent	01
71.	Mother board Specification:	HP or equivalent	01

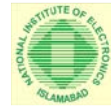


	HP pavilion all in one 24-DF 27-DP i7-10th CPU AIO Motherboard		
72.	Camera Specification: - Hikvision DS-2CD1043G2-LIU 4 MP Smart Hybrid Light Fixed Bullet Network - Water and dust resistant (IP67)	Hikvision or equivalent	02
73.	Camera Specification: - Hikvision iDS-2CD7A46G2/P-IZHSY 4MP DeepinView ANPR Moto Varifocal - License plate recognition and vehicle attribution recognition - Water and dust resistant (IP67), vandal proof (IK10) and corrosion resistant (NEMA 4X, optional)	Hikvision or equivalent	01
74.	Soldering Fume Extractor Specification: YIHUA 948DQ-I 200W	YIHUA or equivalent	02
75.	Electric De-soldering Station Specification: - Pro'sKit SS-331H 220V AC	Pro'sKitor equivalent	01
76.	RTC & Coin Cell Specification: - DS1307 - CR2032	Pro'sKitor equivalent	10
77.	Digital Automatic Thermostat with box & accessories Specification: - Input voltage: 220AC / 3V DC - Adjustable with conventional Geysers - Temperature interface	Any	01
78.	Software Development (App Development) & Hosting Services Specification: - Smart App Development Geyser Ignition Control - Smart App Development for IoT based Smart Extension board - Live data services for Smart Apps - Two year Maintenance/update services for above Apps - Detail software specification will be provided on demand	Any	01



SECTION VI: STANDARD FORMS
(Single Stage One Envelope Procedure)

- Form1: Form of Bid
- Form2: Price Schedules for Goods and Related Services
- Form3: Form of Qualification Information
- Form4: Letter of Acceptance
- Form 5: Bid Security Form
- Form6: Bid Securing Declaration



Form 1: Form of Bid

Date:

To: Gentlemen and/or Ladies:

Having examined the Bidding Documents including Addenda Nos: [insert numbers], the receipt of which is hereby duly acknowledged, we, the undersigned, offer to deliver [description of goods and services] in conformity with the said Bidding Documents for the sum of [total Bid Amount in words and figures] or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We declare that our Bidding price did not involve agreements with other Bidders for the purpose of Bid suppression. We are hereby confirming [insert the name of the Appointing Authority], to be the Appointing Authority, to appoint the adjudicator in case of any arisen disputes in accordance with ITB

We undertake, if our Bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements. If our Bid is accepted, we undertake to provide a Performance Security (or Guarantee) in the form, in the amounts, and within the times specified in the Bidding Documents.

We declare that, as Bidder(s) we do not have conflict of interest with reference to tender documents terms & conditions. We agree to abide by this Bid for the Bid Validity Period specified in BDS, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

We are not participating, as Bidders, in more than one Bid in this Bidding process, other than alternative offers in accordance with the Bidding Documents. Our firm, its affiliates or subsidiaries – including any subcontractors or suppliers for any part of the contract – has not been declared ineligible by the Government of Pakistan under Pakistan's laws or official regulations.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any Bid you may receive. We certify/confirm that we comply with the eligibility requirements as per ITB of the Bidding Documents

Dated this day of 2025.

(Name) _____

[Signature] _____

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____



Price Schedule Forms

The Bidder shall fill in these Price Schedule Forms in accordance with the instructions indicated. The list of line items in column 1 of the Price Schedules shall coincide with the List of Goods and Related Services specified by the Purchaser in the Schedule of Requirements.



PRICE SCHEDULE - STANDARD FORM OF BID

SUPPLY OF MISC. COMPONENTS, PARTS AND ACCESSORIES FOR COMMUNICATION LAB

S. #	Item Name along with Specifications	Manufacturer	Qty	Unit Price in Pak Rupees	Total Price in Pak Rupees
1.	Controller module Specification: ESP32 NodeMCU 38 Pin	Espressif or equivalent	25		
2.	Power Supply Specification: - Part# HLK- 10M05 - Output Volt ; 5V - Power : 10W	Hi-Link or equivalent	25		
3.	Power Module Specification: - Part# B0503S-3WR3 - Input Volt : 5V - Output Volt ; 3.3V - Power : 3W	Hi-Link or equivalent	25		
4.	OLED Specification: 0.96 inch 128x64 I2C SSD 1306	Any	25		
5.	Solenoid Valve with Housing & Accessories Specification: 3V - Gas Stove - Metal - Further Specification will be provided on request	Any	25		
6.	Ignition Kit (Instant Geyser) Specification: Voltage : 3V DC	Any	25		
7.	Mechanical Fixture – Ignition kit Specification: Specification will be provided on request	Any	25		
8.	Water Temperature Sensor Specification: DS 18B20	Any	25		
9.	Heating Element Geyser Specification: 1500W - Compatible with geyser	Thermowatt or equivalent	25		
10.	Controller module Specification: ESP32 WROOM Chip	Espressif or equivalent	05		
11.	Controller PCB Specification:	Any	05		



	Module adapter board ESP32 WROOM Chip				
12.	Controller module Specification: D1 mini ESP32	Espressif or equivalent	05		
13.	Buck Converter Specification: Hw-411a Lm2596	Any	25		
14.	Power Supply Specification: - Part# HLK- 5M05 - Output Volt ; 5V - Power : 5W	Hi-Link or equivalent	20		
15.	Power Supply Specification: - Part# HLK- PM01 - Output Volt ; 5V - Power : 3W	Hi-Link or equivalent	20		
16.	Power Supply Specification: - Part# HLK- PM03 - Output Volt ; 3.3V - Power : 3W	Hi-Link or equivalent	20		
17.	Power Supply Specification: - Part# HLK- 2M03 - Output Volt ; 3.3V - Power : 2W	Hi-Link or equivalent	20		
18.	Relay Specification: - Part# SRD-05VDC-SL-C - Coil Volt ; 5V, 10A	Songle or equivalent	25		
19.	Relay Specification: - Part# SLI-05VDC-SL-A - Coil Volt : 5V, 30A	Songle or equivalent	25		
20.	Relay Specification: - Part# SFK-105DM - Coil Volt : 5V, 20A	Songle or equivalent	10		
21.	Opto-coupler Specification: PC817	Any	50		
22.	Resistor Specification: 5 Watt 6R8	Any	25		
23.	Resistor Specification: 10K Ohm	Any	100		



24.	Resistor Specification: • 1K Ohm	Any	100		
25.	Resistor Specification: • 220 Ohm	Any	100		
26.	Resistor Specification: • 4.7K Ohm	Any	100		
27.	Push Button Specification: • Momentary • Round • Black • Panel mount	Any	50		
28.	Push Button Specification: • Momentary • DIP	Any	100		
29.	Push Button Specification: • Momentary • 6X6X25mm • DIP	Any	50		
30.	Block Terminal Specification: • 2 Pin 25A	Any	50		
31.	Block Terminal Specification: • 2 Pin • Right Angle	Any	100		
32.	Block Terminal Specification: • 4 Pin • Right Angle	Any	50		
33.	USB Connector Specification: • 4 Pin • PCB Mount • Female	Any	50		
34.	LED Specification: • RED 3mm	Any	50		
35.	LED Specification: • BLUE 3mm	Any	50		
36.	LED Specification: • GREEN 3mm	Any	50		



37.	Capacitor Specification: 1000uF - Electrolytic	Any	50		
38.	Capacitor Specification: 104 - Polyester	Any	50		
39.	Transistor Specification: 2n2222,DIP	Any	50		
40.	Diode Specification: 1n4007	Any	50		
41.	Diode Specification: 1n5819	Any	50		
42.	LED Specification: RBG, 3mm	Any	50		
43.	MOSFET Specification: IRLZ44N	Any	30		
44.	PCB Fabrication (Smart Geyser) Specification: - FR-4 - Size: 5.3 In X 3.3 In - Further Specification will be provided on request	Any	25		
45.	Customized Enclosure Box (Smart Geyser) Specification: - Size:8X5X5 Inch - Material : Metal - Water resistant - Further specification will be provided on demand	Any	25		
46.	Customized Screen Printing (Smart Geyser) Specification: Specification will be provided on demand	Any	25		
47.	Customized Printed Cart Box & User Manual Printing (Smart Geyser) Specification: 10X8X8 inch - Further specification will be provided on demand	Any	25		



48.	Customized PCB & Enclosure Box(Smart Extension) Specification: - PCB Size : 5X3 Inch - Enclosure: 3 universal socket 10A & 2 USB port - Further specification will be provided on demand	Any	25		
49.	Customized Screen Printing (Smart Extension) Specification: Specification will be provided on demand	Any	25		
50.	Customized Printed Cart Box & User Manual Printing (Smart Extension) Specification: Specification will be provided on demand	Any	25		
51.	Customized PCB Fabrication (Smart Plug) Specification: - FR-4 - Size 3.8 X 2.3 Inch - Specification will be provided on demand	Any	30		
52.	Customized Printed Cart Box & Branding Sticker & User Manual Printing (Smart Plug) Specification: Specification will be provided on demand	Any	30		
53.	Wire Specification: - Flexible single core 1mm (40/0076") - Pure Copper 20 meter - Black	Any	01		
54.	Wire Specification: - Flexible single core 1mm (40/0076") - Pure Copper 20 meter - Red	Any	01		
55.	Wire Specification: 7/29, pure copper - Pair 30 meter	Any	01		



56.	Epoxy Specification: - Transparent 500 gm.	Any	05		
57.	Silicone sealant Specification: 310 ml	Any	05		
58.	Solder wire Specification: 400Gm 63-37	Any	04		
59.	Solder remover wick Specification: 2ft	Any	10		
60.	Battery 9V Specification: Pack of 10 Batteries	Power Plus or equivalent	02		
61.	Electric Plug Specification: 250V – 10A	Any	20		
62.	G type to universal Plug Specification: 10A	Any	5		
63.	Veroboard Specification: 10cm X 24cm, Dotted	Any	20		
64.	Female Header Specification: 2.54mm pitch	Any	20		
65.	Jumper wire Dopont Specification: Male to Female , 40 Pin	Any	05		
66.	Jumper wire Dopont Specification: Male to Male ,40 Pin	Any	05		
67.	Jumper wire Dopont Specification: Female to Female, 40 Pin	Any	05		
68.	Battery Specification: - APC BV650I-MSX compatible - Part# DJW12-7.0 (12V 7.0AH)	APC or equivalent	02		
69.	RAM Specification: - DDR4 8GB 2133 MHZ - HP Probook 450 G5 Compatible	Any	01		
70.	Laptop battery Specification: HP model Spectre x 360 13ae019nf	HP or equivalent	01		



71.	Mother board Specification: HP pavilion all in one 24-DF 27-DP i7-10th CPU AIO Motherboard	HP or equivalent	01		
72.	Camera Specification: - Hikvision DS-2CD1043G2-LIU 4 MP Smart Hybrid Light Fixed Bullet Network - Water and dust resistant (IP67)	Hikvision or equivalent	02		
73.	Camera Specification: - Hikvision iDS-2CD7A46G2/P-IZHSY 4MP Deep in View ANPR Moto Varifocal - License plate recognition and vehicle attribution recognition - Water and dust resistant (IP67), vandal proof (IK10) and corrosion resistant (NEMA 4X, optional)	Hikvision or equivalent	01		
74.	Soldering Fume Extractor Specification: YIHUA 948DQ-I 200W	YIHUA or equivalent	02		
75.	Electric De-soldering Station Specification: - Pro'sKit SS-331H 220V AC	Pro'sKitor equivalent	01		
76.	RTC & Coin Cell Specification: - DS1307 - CR2032	Pro'sKitor equivalent	10		
77.	Digital Automatic Thermostat with box & accessories Specification: - Input voltage: 220AC / 3V DC - Adjustable with conventional Geysers - Temperature interface	Any	01		
78.	Software Development (App Development) & Hosting Services Specification: - Smart App Development Geyser Ignition Control - Smart App Development for IoT based Smart Extension board - Live data services for Smart Apps - Two year Maintenance/update services for above Apps - Detail software specification will be provided on demand	Any	01		



a.	Cost of goods:	
b.	Cost of 18% GST:	
c.	Grand Total:	

Note:

1. The quoted rates/ amount shall be inclusive of all applicable Federal/ Provincial Govt. Taxes/ duties and charges of inland transportation and other related services etc. as proposals are invited on Pak Rupees and FOR basis.
2. The material upon delivery at the NIE premises is subject to NIE acceptance prior to its installation; otherwise NIE reserves the right to replace the same without incurring any liability or payment of any charges to bidders.

Name of Bidder: _____

Signature of Bidder: _____

Date: _____



Form of Qualification Information

Individual Bidders or Individual members of joint ventures

1. Constitution of legal status of Bidders:_____
2. Place of registration:_____
3. Principle of business:_____
4. Power of Attorney of Signatory of Bid:_____
5. Total annual volume of services performed for the period _____ years internationally, specified value_____
6. Provide information asked in the below tables:

Project name and country	Name of PA and Contact person	Type of Services provided and year of completion	Value of Contract
(a)			
(b)			

Item of Equipment	Description make and age years	Condition (new, good, poor) and number available	Owned Leased (from whom?) or to be purchased (from whom?)
(a)			
(b)			

Position	Name	Year of Experience (General)	Years of experience in proposed position
(a)			
(b)			

Section of the services	Value of the sub contract	Sub contractor (Name and Address)	Experience in providing similar services
(a)			
(b)			

We the undersigned declare that:



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



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

Fax: 051-9265018

The information contained in or attached to this form is true and accurate as of the date of submission or (delete statement which does not apply)

- (a) The originally submitted pre-qualification information remains essentially correct as of sate of submission.

Authorized Signature: _____

Name & Title of Signatory: _____

Name of Bidder: _____

Address: _____



Form: Letter of Acceptance

(Letter head of the PA)

[date]

To: *[name and address of the Supplier]*

Subject **LETTER OF ACCEPTANCE**

This is to notify that you Bid No. 03/COMM LAB (NDP)/2024-25/NIE dated_____ for the **Supply of Misc. Components, Parts and accessories for Communication Lab under proposal “IoT Based Smart Home Appliances”** amounting **Rs. _____ (Rupees in words) in Pak Rupees**, as corrected and modified in accordance with instructions to bidders is hereby accepted by this Institute.

In case of any dispute arisen , the Director General, NIE, being the Competent Authority will act as arbitrator and his decision will be final and not challenge-able any court of law.

Attach with acceptance letter is draft of **Contract** to be filled on judicial paper by your firm. Vetted contract will be signed within “14” days of issuance of this letter.

Further you are hereby required to furnish the performance guarantee/ security in the form of performance guarantee and the amount stipulated in the special terms and conditions of the Contract within period of “14” days

Authorized Signature: Name

and Title of Signatory: Name

of Agency:

Attachment: Contract

Copy: Appointing Authority and Supplier



FORM OF BID-SECURING DECLARATION

[The Bidder shall fill in this Form in accordance with the instructions indicated.]

Date: [date (as day, month and year)]

No.: [number of bidding process]

Alternative No.: [insert identification No if this is a Bid for an alternative]

To: [complete name of Procuring Agency]

We, the undersigned, declare that:

We understand that, according to your conditions, Bids must be supported by a Bid- Securing Declaration.

We accept that we will be blacklisted and henceforth cross debarred for participating in respective category of public procurement proceedings for a period of (not more than) six months, if fail to abide with a bid securing declaration, however without indulging in corrupt and fraudulent practices, if we are in breach of our obligation(s) under the Bid conditions, because we:

have withdrawn our Bid during the period of Bid validity specified in the Letter of Bid; or

having been notified of the acceptance of our Bid by the Procuring Agency during the period of Bid validity, (i) fail or refuse to sign the Contract; or (ii) fail or refuse to furnish the Performance Security (or guarantee), if required, in accordance with the ITB.

We understand this Bid Securing Declaration shall expire if we are not the successful Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight days after the expiration of our Bid.

Name of the Bidder: _____

Name of the person duly authorized to sign the Bid on behalf of the Bidder* _____

Title of the person signing the Bid _____

Signature of the person named above _____

Date signed _____ **day of** _____, _____

*: Person signing the Bid shall have the power of attorney given by the Bidder attached to the Bid



MANUFACTURER'S AUTHORIZATION

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its Bid, if so indicated in the **BDS**.]

Date: [insert date (as day, month and year) of Bid submission]

No.: [insert number of bidding process]

Alternative No.: [insert identification No if this is a Bid for an alternative]

To: [insert complete name of Procuring Agency]

WHEREAS

We [insert complete name of Manufacturer], who are official manufacturers of [insert type of goods manufactured], having factories at [insert full address of Manufacturer's factories], do hereby authorize [insert complete name of Bidder] to submit a Bid the purpose of which is to provide the following Goods, manufactured by us [insert name and or brief description of the Goods], and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: [insert signature(s) of authorized representative(s) of the Manufacturer]

Name: [insert complete name(s) of authorized representative(s) of the Manufacturer]

Title: [insert title]

Dated on ____ **day of** __, ____ [insert date of signing]



SECTION – VII

AWARD OF CONTRACT - Tender No. 03/COMM LAB (NDP) /2024-25/NIE FOR SUCCESSFUL BIDDERS

GENERAL TERMS & CONDITIONS

1. The successful bidder is required to supply and complete the tasks outlined in the proposal within ____ **weeks** from the issuance of the auto-generated **NIE Letter of Acceptance** via the E-PADS platform.
2. Failure to execute the purchase order within the stipulated time frame will result in a penalty of **2% per month** of the total order value (excluding GST). Additionally, the order may be canceled, and the **5% performance guarantee** will be forfeited without prior notice.
3. Successful bidder shall provide BOND for providing continuous support for all items for a period of **03 years** after acceptance of this Institute.
4. The successful bidder is required to supply the ordered items in strict accordance with the technical and financial proposals submitted on the E-PADS portal, including specifications, make, model, origin, and other relevant details.
5. Any modification to the purchase order will require prior approval from the **Competent Authority**, i.e., the Director General, NIE.
6. This contract is strictly non-transferable and cannot be assigned to any third party.
7. Failure to fulfill the contractual obligations in both letter and spirit will result in the forfeiture of the **5% performance guarantee**. Additionally, the firm will be blacklisted on both NIE and PPRA platforms.
8. All ordered items must be **brand new**, comply with the specified requirements, and be covered under standard warranty/guarantee terms.
9. All purchase order items must be delivered **free of cost** to the NIE premises (Store Section) during office hours. A copy of the delivery challan, signed by our Store representative, must be submitted to the Procurement Section.
10. No extension of the purchase order deadline will be granted.
11. Advance payment is not permitted.
12. The successful bidder must keep the **Director General, NIE** informed at every stage of the contract execution.
13. Payment will be processed upon submission of the prescribed bill (in duplicate) through a crossed cheque, following the satisfactory completion and execution of the work or supply order. This includes installation, inspection, testing, commissioning, and our acceptance thereof.
14. As per government policy, payment to the firm is contingent upon its inclusion in the **Active Taxpayer List (ATL)** of the FBR. Payment will be withheld until the firm's name appears in the ATL.
15. The original invoice/bill must include the **NTN, GST, bank account details, banker's name, and branch information**. Failure to provide this information will result in payment delays.
16. Income tax and general sales tax will be deducted at source in accordance with applicable government regulations.
17. In the event of any conflict or dispute, the decision of the **Director General, NIE** will serve as the final resolution and will not be subject to challenge in any court of law.



SECTION - VIII

**AWARD OF CONTRACT - Tender No. 03/COMM LAB (NDP) /2024-25/NIE FOR SUCCESFUL
BIDDERS**

SPECIAL TERMS & CONDITIONS

FIRM NAME:-

EQUIPMENT NAME:-

-

MAKE:-

MODEL:-

-

ORIGIN:-

-

COMPLETION / DELIVERY DATE:-

DELIVERY/ COMPLETION TIME:

1. Successful bidder is bound to supply the ordered items in accordance with technical and financial proposals already submitted at E-PADS portal reflecting specification, make, model and origin etc.
 2. Any alternation in purchase order will be subject to approval of the Competent Authority i.e. Director General, NIE.
 3. This contract is not transferable to any third party.
 4. In case on non-execution of contract's obligations in letter & spirit, 5% performance guarantee of the successful bidders will be forfeited and blacklisting of firm at NIE and PPRA platforms.
 5. In case of any conflict/ dispute, the decision of the Director General, NIE is the final as arbitrator and not challenge-able in any court of law.
 6. Demurrage of equipment is the sole responsibility of successful bidder
 7. Inspection will be conducted after satisfactory supply at NIE premises.
 8. Bidder found in fraudulent activities or failed to fulfill the obligations of the contract will be dealt as per PPRA Rules 2004 and can be blacklisted by following the Blacklisting procedures.
-



SECTION - IX

**CONTRACT FORM– Tender No. 03/COMM LAB (NDP) /2024-25/NIE (On JUDICIAL PAPER) FOR
SUCSESFUL BIDDERS**

THIS AGREEMENT made the _____ day of _____ 2025 between National Institute of Electronics, Plot No. 17, Sector H-9, Islamabad of Pakistan herein after called “NIE” of the one part and [name of Supplier] of [city and country of Supplier] (herein after called the “Supplier” of the other part.

WHEREAS the NIE invited by the Supplier for the supply of those goods and related services in the sum of [contract price in words and figures] (herein after called the “Contract Price”).

NOW THIS CONTRACT WITNESS THE AS FOLLOWS:

1. In this Contract words and expressions shall have the same meanings as are respectively assigned to the min the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read Contract Documents listed below, the order of precedence shall be the order in which the Contract Documents are listed below.
 - a. This form of Contract;
 - b. The quoted Technical and Financial Proposal submitted by the successful bidder;
 - c. General Terms & Condition of the Contract;
 - d. Special Terms & Conditions of the Contract.
3. In consideration of the payments to be made by the NIE to the Supplier as herein after mentioned Supplier hereby covenants with NIE to provide goods and related services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. NIE hereby covenants to pay the Supplier in consideration of the provision of the goods and related services and the remedy in defects therein, the Contract Price or such of the sum as may be come payable under the provisions of the contract at the times and in the manner prescribed by the Contract.

IN WITNESS where of the parties here to have caused this Contract be executed in accordance with their respective laws the day and year first above written.

National Institute of Electronics (Party-1)

Successful Bidder (Party-2)

Witness No.1 _____
(Name & Designation with CNIC, Mobile #)

Witness No. 1 _____
(Name & Designation with CNIC, Mobile #)

Witness No. 2 _____
(Name & Designation with CNIC, Mobile #)

Witness No. 2 _____
(Name & Designation with CNIC, Mobile #)



SECTION – X

PERFORMANCE GUARANTEE FORM FOR SUCCESSFUL BIDDERS

To: National Institute of Electronics (NIE), Islamabad

WHEREAS [name of Supplier] _____ hereinafter called “the _____” has undertaken, in pursuance of Contract No. **Tender No. 03/COMM LAB (NDP) /24-25/NIE** dated _____ for supply of **Supply of Misc. Components, Parts and accessories for Communication Lab under proposal “IoT Based Smart Home Appliances”** herein after called “the Contract”.

AND WHEREAS it has been stipulated by you in the said Contract that being the successful bidder furnishes you with a Bank Guarantee by a reputable bank for the sum specified therein as security for compliance with the supplier performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to complete the contract a guarantee:

THEREFORE, WE hereby affirm that we are Guarantors and responsible to you, on behalf of the firm, up to a total of Rs. _____ [Rupees _____ in words and figures], and we undertake to pay you, upon your first written demand declaring the Service provider to be in default under the Contract and without cavil or argument, any sum or sums within the limits of Rs. _____ as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the: 30-06-2025
