



**The Karachi Institute of
Biotechnology and Genetic
Engineering (KIBGE)**



UNIVERSITY OF KARACHI, KARACHI-75270
Tel: +9221-9926 1180-81 Email: kibge@kibge.edu.pk

NOTICE INVITING TENDER (EPADS)

SEALED TENDERS are invited from Active Taxpayers (Firms/Manufacturers/Companies/ Distributors/Suppliers) registered with relevant Tax Authorities.

Name of Tender	Procedure	Bid Security
Complete Overhauling of KIBGE Networking Infrastructure with Fiber Optic Core, Network Segregation and Centralized power Solution. KIBGE/001/2026	Single Stage One Envelope	2 %
Tender Dates:		
Bidding Document Issuance start & end date:	April 27, 2026, to May 14, 2026 (Through EPADS)	
Bidding Document Submission date & time:	Till May 14, 2026, 02:30 PM (Through EPADS)	
Opening date & time:	May 14, 2026, at 03:00 PM (Through EPADS)	

The details and specifications of the items can be obtained or downloaded from SPPRA website i.e. on EPADS (www.portalsindh.eprocure.gov.pk).

Tenders duly completed in all respect addressed to the "Director General, KIBGE" along with earnest money, in the shape of pay order, in favour of KIBGE. The Original Bid Security Pay Order must reach or be dropped in the Tender Box placed in the office of the Director General, KIBGE and submission of the filled in tender documents on EPADS are mandatory. Tender will be opened in the conference room, KIBGE, University of Karachi as mentioned above in the presence of the bidders or their representatives, who may wish to be present. In case of any unforeseen situation resulting in closure of office on the date of opening or if Government declares holiday the tender shall be submitted & Opened on the next working day at the same time & venue.

Tender Fee is Rs.3,000/- (non refundable) in the shape of a pay order, in favour of KIBGE must be submitted along with the bid.

Only uploaded bid along with supporting documents will be accepted. In case there is a contradiction between bidder's EPADS submitted bid and manually submitted bid, bid submitted on EPADS will be considered valid for evaluation purpose.

KIBGE, University of Karachi reserves the right to reject any bid or cancel the bidding process in accordance with SPPRA rules 2010.

DIRECTOR GENERAL

DAWN

DAWN FRIDAY APRIL 24, 2026



The Karachi Institute of Biotechnology and Genetic Engineering (KIBGE)



UNIVERSITY OF KARACHI, KARACHI-75270
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DIRECTOR GENERAL



The Karachi Institute of Biotechnology
& Genetic Engineering (KIBGE)
University of Karachi



Complete Overhauling of KIBGE Networking Infrastructure with Fiber Optic Core, Network Segregation and Centralized power Solution

Tender # KIBGE/001/2026

Tender Document

Bidder Name : _____
Address : _____
Date & Time : _____

KIBGE, University of Karachi
University Road
Karachi - 75270
Sindh, Pakistan

Page 1 of 24

Signature and Stamp

G. Galani
Prof. Saddia Galani, Ph.D.
Professor
The Karachi Institute of Biotechnology
and Genetic Engineering (KIBGE)
University of Karachi, Karachi





**The Karachi Institute of Biotechnology
and Genetic Engineering (KIBGE)
University of Karachi**

Karachi-75270, Pakistan



Tel: +9221-99261180-1

NOTICE INVITING TENDER
(EPADS)

Sealed Tenders are invited from active taxpayers (Firms/Manufacturers/Companies/Distributors/Suppliers) registered with relevant tax authorities and SPPRA EPADS.

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DIRECTOR GENERAL

Gelan
Prof. Sadiya Galani, Ph.D.
Professor
The Karachi Institute of Biotechnology
and Genetic Engineering (KIBGE)
University of Karachi, Karachi

Page 2 of 24

Signature and Stamp



C O N T E N T S

1. Introduction	Page 4
2. Instructions	Page 5
3. Bidding Data	Page 7
4. Terms & Conditions	Page 8
5. Integrity Pact	Page 10
6. Bidder Qualification Criteria	Page 11
7. Scope of Work	Page 12
8. Bill of Quantity	Page 13
9. General Conditions of Contract	Page 16

Galani
Prof. Sadiya Galani, Ph.D.
Professor
The Karachi Institute of Biotechnology
and Genetic Engineering (KIBGE)
University of Karachi, Karachi

Signature and Stamp

Page 3 of 24



1. Introduction

Dear Tenderer

Thank you for the interest you have shown in response to the KIBGE's advertisement which has floated on Daily Dawn, Jang and Kawish on April 24, 2026 and on SSPRA website EPADS <https://portalsindh.eprocure.gov.pk>.


The Karachi Institute of Biotechnology and Genetic Engineering (KIBGE) is a scientific research institute with state-of-the-art facilities to carry out research in the field of biological sciences and to impart higher education at University of Karachi. The institute aims to explore the biotechnological and genetic engineering aspects of scientific domain. The four major research areas at KIBGE; agriculture biotechnology, environmental biotechnology, industrial biotechnology and medical biotechnology have imparted sound scientific research contributions that promotes quality research.

We expect to avail services/works/items of high standards that meet our prime & basic specifications through this transaction.

Please contact Procurement Officer on 021-99261180-1 Ext: 106 for any information and query.

Thank you.

Director General


Prof. Saddia Galani, Ph.D.
Professor
The Karachi Institute of Biotechnology
and Genetic Engineering (KIBGE)
University of Karachi, Karachi



2. Instructions

(a) Sign & Stamp

It is necessary to fill in the Tender Form meticulously sign & stamp each & every page. Moreover, attach the required supporting documentation according to the requirement. The tender document will be accepted ONLY on the prescribed Tender Document available on SSPRA websites. Any other document(s) will be liable to be rejected.

(b) Filling of Tender Form

It is mandatory to fill the Tender Form in writing in ink or type. Do not leave any column/item blank. If you want to leave the item/column un-answered please, write 'Doesn't Apply/Doesn't Arise'. If you need more space, please attach a paper & clearly mention the item/column name or number etc. that referred to the column/item of the Tender Form.

(c) Collection of Tender

Tender Document can be downloaded from SPPRA website i.e. on EPADS at <https://portalsindh.eprocure.gov.pk>.

(d) Submission of Tender

The bidder shall submit the bid on EPADS (Mandatory), and a copy of submitted bid and the original Bid Security Pay Order must be submitted to the Administration of KIBGE, University of Karachi, Karachi in separate envelope, duly marking the envelop as "ORIGINAL BID SECURITY" and "BID COPY" must be sealed in an outer envelope. The Tender will be opened on May 14, 2026 at 03:00 PM in the presence of the bidders or their representatives who may wish to attend.

(e) Tender Number

Please mention "Tender Number" at the top left corner of the envelopes. KIBGE, University of Karachi may reject any bid subject to the relevant provision of SPPRA Rules 2010 and may cancel the bidding process at any time before acceptance of bid or proposal as per Rule-25(i) of said rules.

(f) Communication

Any request for clarification regarding technical specification should be submitted in writing to:

Contact Person (KIBGE): Mr. Muhammad Ahmed Buland Khan
Surveillance System Administrator
KIBGE, University of Karachi
Tel #: 0333-3961573
Email: muhammad.ahmed@kibge.edu.pk


Prof. Saddia Galani, Ph.D.
Professor
The Karachi Institute of Biotechnology
and Genetic Engineering (KIBGE)
University of Karachi, Karachi



(g) Submission of Documents and Address

Separate envelopes clearly labelled for “Original Document”, “Copy” and “Bid Security” must be submitted on or before the last date. Tender Documents can be dropped in Tender Box placed at the Administration of KIBGE, University of Karachi. Submission of the filled in tender documents on EPADS are mandatory. **Tender Documents received by fax or email will not be accepted.**

(h) Rights

Competent authorities reserve the right to accept or reject any quotation/tender without any reason thereof.

(i) Location of Services Required

Services will be provided at KIBGE, University of Karachi. KIBGE will not be liable to pay any Custom duty, Levies, Taxes, Demurrage or any other charges, Warehousing, Logistics etc.

(j) Taxes

All Government taxes (including income tax and advance tax) etc., levies and charges will be charged as per applicable rates / denomination of award letter.

(k) Clarification / Proof

Please submit copies of certificates of registration with the Sales Tax and Income Tax departments / authorities. The manufacturer / firms / companies / distributors / suppliers should also provide copy(ies) of the certificate(s) etc. as proof of their claim.

(l) Project Summary

The Karachi Institute of Biotechnology & Genetic Engineering (KIBGE), University of KIBGE currently operates on an obsolete and largely non-functional data network and IP telephony infrastructure. The degraded state of the existing cabling, switching equipment, and voice systems has begun to disrupt academic, research, and administrative operations across the institute.

The project full extent of work required to design, supply, install, test, and commission a complete overhaul of the KIBGE networking infrastructure. The new infrastructure will incorporate a fiber optic core, network segregation across data, WiFi, voice and a centralized power solution covering all wings, floors, lecture halls, the auditorium, the server room and residential building at KIBGE. All decommissioned cabling and equipment will be replaced with a reliable, scalable, and standards-compliant platform.

3. Bidding Data

- (a) **Name of Procuring Agency:** The Karachi Institute of Biotechnology and Genetic Engineering (KIBGE), University of Karachi.
- (b) **Brief Description of Works:** Complete Overhauling of KIBGE Networking Infrastructure with Fiber Optic Core, Network Segregation and Centralized power Solution.
- (c) **Procuring Agency's address:** The Karachi Institute of Biotechnology and Genetic Engineering (KIBGE), University of Karachi, University Road, Karachi-75270.
- (d) **Amount of Bid Security:** Bid Security of 2% of the total amount/cost will be submitted along with Tender Documents in the shape of PAY ORDER / DEMAND DRAFT only in the name of The Karachi Institute of Biotechnology and Genetic Engineering (KIBGE), University of Karachi.
- (e) **Period of Bid Validity (days):** Ninety (90) Days.
- (f) **Deadline for Submission of Bids along with time:** The last date of submitting the Tender Document (through EPADS) is May 14, 2026, by 02:30 PM and a copy be dropped in the Tender Box placed at the Administration of KIBGE, University of Karachi and submission of the filled in tender documents on EPADS are mandatory. The Tender will be opened on the same day at 03:00 PM in the presence of representatives who may wish to attend.
- (g) **The Venue, Time, and Date of Bid Opening:** The Tender will be opened on May 14, 2026, at 03:00 PM at the Administration of KIBGE, University of Karachi in the presence of representatives who may wish to attend.
- (h) Time for Completion from written order of commencing: 4-6 weeks.
- (i) **Liquidity damages:** Liquidity damages at the rate of 2% per month of the total contract amount will be imposed on delayed delivery.
- (j) **Deposit Receipt No:** _____ **Dated:** _____
Amount (in words and figures): _____
Pay Order / Demand Draft #: _____, **Amount: Rs.** _____
Drawn on Bank: _____, **Dated:** _____

Galani
Prof. Saddia Galani, Ph.D.
Professor
The Karachi Institute of Biotechnology
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University of Karachi, Karachi



4. Terms & Conditions

a. Bid Security

Bid Security, in the shape of a bank draft/pay order in the name of “**KIBGE, University of Karachi**”, equivalent to **2%** of the total cost of bid, should be submitted along with the tender documents.

b. Performance Security

Successful bidder should provide **5%** Performance Security of total value of Purchase Order / Work Order in the form of Pay Order or bank guarantee prior to the signing of the Contract. The Performance Security shall extend at least three months beyond the Date of Delivery/Completion of the contract.

c. Validity of the Tender

All proposals and prices shall remain valid for a period of **90 days** from the closing date of the submission of the proposal. However, the Manufacturer / firms / companies / distributors / suppliers are encouraged to state a longer period of validity for the proposal.

d. Currency

All currency in the proposal shall be quoted in Pakistani Rupees (PKR).

e. Ownership

The ownership of all products and services rendered under any contract arising as a result of this tender will be the sole property of KIBGE.

f. Arbitration and Governing Law

This tender and any contract executed under this tender shall be governed by and construed in accordance with the laws of Pakistan. The KIBGE and all Manufacturer/firms/companies/ distributors/suppliers responding to this tender and parties to any contract executed pursuant to this tender shall submit to the exclusive jurisdiction of the Pakistani courts. The arbitration proceeding will be governed by the Arbitration Act, 1940, and the substantive and procedural law of Pakistan. The venue shall be Karachi.

g. Acceptance of Tender

The KIBGE reserves the right not to accept the lowest and to annul the bidding process without assigning any reason whatsoever.



h. Compliance to Specifications

The manufacturer/firms/companies/distributors/suppliers shall provide information as per requirements given in BoQ. Manufacturers/firms/companies/distributors/suppliers may not propose/supply any kind of refurbished hardware equipment's / components in their proposals.

i. Cancellation

KIBGE reserves the right to cancel any or all of the BoQ items if the material is not in accordance with its specifications or if the delivery is delayed.

j. Invoice

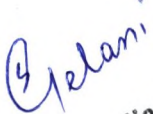
Invoice/bill should be submitted to Director General, KIBGE, University of Karachi.

k. Stamp Duty

Stamp duty 0.35% against the total value of Purchase / Work Order will be levied accordingly.

l. Job Completion

The project should be completed at KIBGE within 4-6 weeks after receiving of Award Letter.


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5. Integrity Pact

- (a) Its intention is not to obtain the Provide & Supply work of any Contract, right, interest, privilege, or other obligation or benefit from the KIBGE or any administrative or financial offices thereof or any other department under the control of the KIBGE through any corrupt practice(s).
- (b) Without limiting the generality of the forgoing the Bidder represents and warrants that it has fully declared the charges, fees, commission, taxes, levies etc., paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within the KIBGE directly or indirectly through any means any commission, gratification, bribe, gifts, kickback whether described as consultation fee or otherwise, with the object of obtaining or including the Provide & Supply or service contract or order or other obligations whatsoever from the KIBGE, except that which has been expressly declared pursuant hereto.
- (c) The Bidder accepts full responsibility and strict liability for making any false declaration/statement, not making full disclosure, misrepresenting facts or taking any action likely to degrade the purpose of declaration, representation and warranty. It agrees that any contract/order obtained aforesaid shall without prejudice to any other right & remedies available to the KIBGE under any law, contract, or other instruments, be stand void at the discretion of the KIBGE.
- (d) Notwithstanding any right and remedies exercised by the KIBGE in this regard, Bidder agrees to indemnify the KIBGE for any loss or damage incurred by it on account of its corrupt business practice & further pay compensation to the KIBGE in any amount equivalent to the loss of any commission, gratification, bribe, gifts, kickback given by the company/firm/supplier/agency/bidder as aforesaid for the purpose of obtaining or inducing Provide & Supply/work/service or other obligation or benefit in whatsoever from the KIBGE.

Note:


This integrity pact is a mandatory requirement other than auxiliary services/works.

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6. Bidder Qualification Criteria

S. No.	Mandatory Eligibility Criteria (Attach Supporting Document)	Remarks Yes / No
1.	Last 3 years (at least) relevant experience.	
2.	Last 3 years' minimum 21 million average turnovers in terms of audited financial statement or annual return.	
3.	Sales tax registration certificate with last year's return copy both FBR and/or SRB and NTN certificates.	
4.	The tender documents duly submitted in EPADS and hard copy are acceptable.	
5.	Affidavit on (Non-Judicial Stamp Paper) of no litigation history, non-blacklisting, never indulge in any corrupt, fraudulent and collusive practices, also undertaking that the information and documents provided with are correct. The date of issuance of said stamp paper and bidder signature on it should be later than the date of publication of this NIT.	


Prof. Saddia Galani, Ph.D.
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7. Scope of Work:

1. Background

KIBGE currently operates on an obsolete and largely non-functional data network and IP telephony infrastructure. The degraded state of the existing cabling, switching equipment, and voice systems has begun to disrupt academic, research, and administrative operations across the institute.

This Scope of Work (SOW) is defined as the full extent of work required to design, supply, install, test, and commission a complete overhaul of the KIBGE networking infrastructure. The new infrastructure will incorporate a fiber optic core, network segregation across data, WiFi, voice and a centralized power solution covering all wings, floors, lecture halls, the auditorium, the server room and residential building at KIBGE. All decommissioned cabling and equipment will be replaced with a reliable, scalable, and standards-compliant platform.

2. Scope of Work

The scope encompasses two primary categories:

2.1 Supply of Materials & Equipment

1. The vendor shall be responsible for the complete end-to-end delivery of the project.
2. The vendor should provide drawing, cabling layout plan, resources deployment, tasks detail with a timeline to complete the project.
3. All civil work i.e., installation, excavating, digging (soft & hard), curing, tunnelling, configuration and testing within the premises of KIBGE, University of Karachi will be the responsibility of the vendor.
4. The equipment/ hardware supplied by the vendor shall be brand new and complete in all respects.
5. The vendor should provide the two (01) years warranty of technical support for the complete project.
6. The vendor shall provide the alternative of same capacity equipment in case of any faulty equipment till the repair or replacement. Or if there is any permanent fault in the equipment, that will be replaced by new equipment of the same model/advanced model of the same capacity/higher capacity not less than the capacity of unit supply in any case.
7. The cabling (any type) must be properly tagged/numbered and there should not be any hanged or uncovered wire. Furthermore, installation of I/O, Crimping, Racking and related equipment/devices must also be the responsibility of the vendor.
8. The vendor should have helpdesk and Technical Assistance Center (TAC) support.

2.2 Installation & Services

The vendor shall carry out all civil and technical works required for a complete, operational, and tested network. This includes pipe and cable laying, equipment installation, configuration, testing, commissioning, and documentation handover. The vendor shall also manage old wiring and ducting in

the server room, and provide a complete networking solution for the residential buildings on institute.

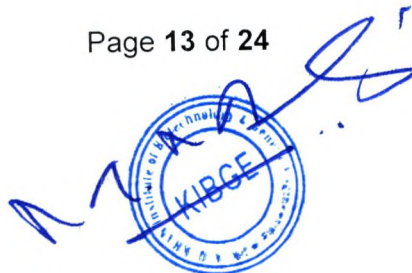
3. Locations Covered

The scope of work covers the following locations within the KIBGE institute:

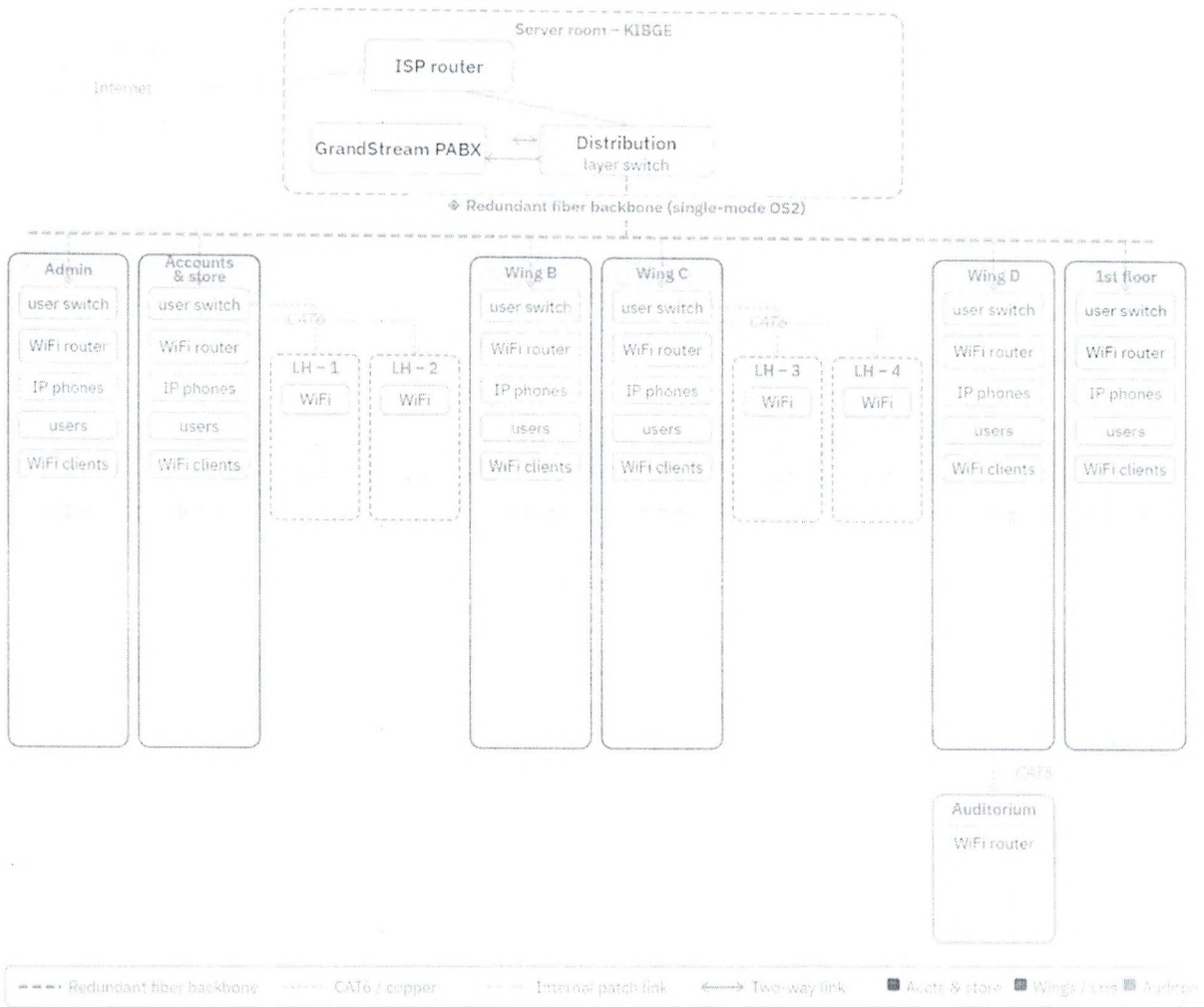
1. Server Room (KIBGE) – Core infrastructure, distribution layer switch, GrandStream PABX, 42U rack, ODF, and fiber terminations.
2. Admin Section – User-level switch, WiFi router, IP phones, and user workstations.
3. Accounts & Store Section – User-level switch, WiFi router, IP phones, and user workstations.
4. Lecture Hall 1 (LH-1) – WiFi router connected via CAT6 from Accounts & Store switch.
5. Lecture Hall 2 (LH-2) – WiFi router connected via CAT6 from Accounts & Store switch.
6. Wing B – User-level switch, WiFi routers, IP phones, and user workstations.
7. Wing C – User-level switch, WiFi router, IP phones, and user workstations.
8. Lecture Hall 3 (LH-3) – WiFi router connected via CAT6 from Wing C switch.
9. Lecture Hall 4 (LH-4) – WiFi router connected via CAT6 from Wing C switch.
10. Wing D – User-level switch, WiFi router, IP phones, and user workstations.
11. Auditorium – WiFi router connected via CAT6 from Wing D switch.
12. 1st Floor – User-level switch, WiFi router, IP phones, and user workstations.
13. Residential Buildings (approx. 4,000 ft cable run) – Complete networking with material.

S. Galani

Prof. Saddia Galani, Ph.D.
Professor
The Karachi Institute of Biotechnology
and Genetic Engineering (KIBGE)
University of Karachi, Karachi



4. Diagram



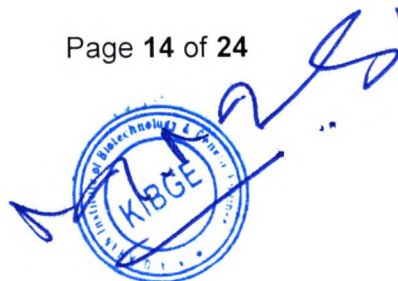
5. Detailed Scope of Work

5.1 Civil & Conduit Works

1. Supply and laying of rigid PVC conduit pipe (1 inch) for approximately 5,000 ft throughout the institute.
2. Supply and installation of flexible conduit pipe (1 inch) for last-mile equipment connections and transitions.
3. All conduit runs to be properly supported, bracketed, and sealed at entry points.
4. Conduit to be installed prior to cable pulling; all bends and fittings to be included.
5. Cable trays or surface-mount trunking to be used where conduit is not feasible, subject to Engineer's (Muhammad Ahmed Buland Khan) approval.

Saddia Galani
Prof. Saddia Galani, Ph.D.
 Professor
 The Karachi Institute of Biotechnology
 and Genetic Engineering (KIBGE)
 University of Karachi, Karachi

Page 14 of 24



Signature and Stamp

5.2 Fiber Optic Backbone

1. Supply, installation, testing, and commissioning of approximately 2,500 feet (≈ 760 meters) of redundant 4-core single-mode fiber optic cables to serve as the primary and secondary (backup) core and distribution backbone, ensuring high availability and fault tolerance.
2. Fiber to be routed from the server room distribution layer switch to each wing/floor as per the approved network topology diagram.
3. All fiber terminations to be completed at ODF (24-port, fully loaded) in the server room and at fiber joint boxes at each distribution point.
4. Fusion splicing to be performed at all splice points; maximum splice loss of 0.1 dB per splice.
5. Each splice to be protected with a heat-shrink sleeve and housed in a fiber joint box (IP55 rated).
6. Bidirectional OTDR testing to be performed at 1310 nm and 1550 nm on all fiber runs after splicing
7. OTDR trace records and splice log sheets to be submitted as part of the documentation package.
8. Provision of test results, route diagrams, and as-built drawings.

5.3 Copper Cabling (CAT6)

1. Supply and laying of CAT6 UTP cable (PONY / 3M Corning or equivalent) for approximately 16,700 ft total across all locations
2. **CAT6 cable to be used for:**
 - Switch-to-switch uplinks at the access layer.
 - Switch-to-user data connections (workstations, endpoints).
 - PoE connectivity for IP Phones, WiFi router / access points.
 - Dedicated CAT6 data runs to WiFi routers/access points installed in Lecture Halls and Auditorium.
3. All copper cable to be routed through conduit or trunking; no exposed cable runs.
4. All cables to be labeled at both ends using permanent cable tags in accordance with TIA-606-B.
5. All copper links to be tested for: wire map, length, attenuation, NEXT, and return loss per TIA-568-C.2.

5.4 Active Equipment Installation

1. Install 1 \times 42U floor-standing server rack with fan in the server room; level, anchor, and earth-bond the rack.
2. Install 6 \times 6U wall-mount racks with fans at distribution points across wings and floors.
3. Mount and cable all managed PoE switches (3 \times 24-port and 9 \times 16-port GrandStream) in respective racks.
4. Mount and connect 1 \times SFP Core Switch 24-Port as the distribution layer switch in the server room rack.
5. Connect the GrandStream PABX in the server room rack to distribution switch.
6. Install 12 \times GrandStream GWN7062 WiFi routers at designated locations (ceiling or wall mount as required)
7. Install and connect all SFP 10G single-mode transceivers in core switch and distribution switches.
8. Install ODF 24-port, cable managers (2 \times), and 6-port PDUs (6 \times) in re

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9. Terminate all power connections via PDUs; connect all racks to centralized power supply from the server room.

5.5 Configuration & Commissioning

1. Configure all managed switches: VLANs (802.1Q), QoS (DSCP/802.1p), STP/RSTP, Link Aggregation (LACP), port security, 802.1X, and access control lists.
2. Configure all WiFi routers: dual-band SSIDs, WPA2/WPA3 security, AAA Authentication using RADIUS Server, VLAN-per-SSID mapping, channel planning, and power settings.
3. Configure QoS to prioritize voice traffic (DSCP EF marking) across all switches and uplinks.
4. Verify two-way connectivity between ISP router, distribution layer switch, and PABX.
5. Perform end-to-end connectivity tests, PoE device power-up verification, and throughput tests on all links.
6. Perform VoIP call quality testing (MOS score verification) on all IP phone extensions.

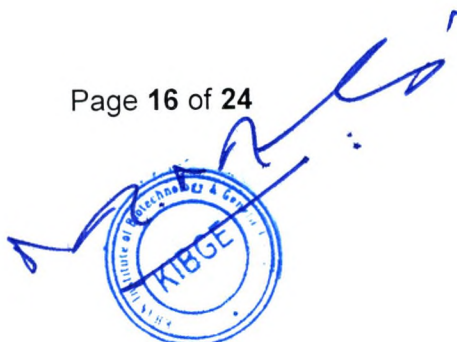
5.6 Server Room – Old Wiring & Ducting

1. Remove and dispose of all decommissioned cables and defunct ducting in the server room.
2. Label and document all retained/active infrastructure in the server room.
3. Organize cable management within the server room racks using supplied cable managers.
4. All works in the server room to be carried out as per the requirements of the Engineer (Muhammad Ahmed Buland Khan).

5.7 Residential Buildings Networking

1. Supply and install a complete data network for the residential buildings on institute (approximately 4,000 ft cable run).
2. Scope to include all required CAT6 cabling, switches, WiFi routers, and associated hardware.
3. Installation, testing, and commissioning of residential network included within this scope.

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6. Deliverables

#	Deliverable	Responsibility	Timeline
1	Fully installed, tested, and commissioned fiber optic backbone and copper access network	Vendor	Per agreed project schedule
2	Operational GrandStream PABX with all IP phone extensions.	Vendor	Per agreed project schedule
3	Configured and operational WiFi network across all locations	Vendor	Per agreed project schedule
4	Bidirectional OTDR test reports for all fiber runs	Vendor	At project completion
5	Copper cable test reports (wire map, length, attenuation, NEXT) for all CAT6 links	Vendor	At project completion
6	As-built network topology diagram (updated)	Vendor	Within 7 days of completion
7	IP address register and switch port assignment sheet	Vendor	At project completion
8	Equipment datasheets and compliance certificates for all supplied items	Vendor	At delivery
9	User and administrator handover session	Vendor	At project completion
10	Warranty certificates for all active equipment (minimum 1 year)	Vendor	At delivery

7. Standards & Compliance

All works shall be carried out in full compliance with the following standards and requirements:

1. TIA-568-C.2 – Structured cabling for commercial buildings (copper)
2. ISO/IEC 11801 – Generic cabling for customer premises (Class E / Class OF-300)
3. TIA-606-B – Administration standard for telecommunications infrastructure
4. IEC 61754-4 – Fiber optic connectors (SC type)
5. ITU-T G.652.D – Single-mode optical fiber and cable characteristics
6. IEEE 802.3ae / 802.3af / 802.3at – 10GbE, PoE, and PoE+ standards
7. IEEE 802.11ax (WiFi 6) – Wireless LAN specifications
8. PSQCA and NTISB local regulatory guidelines (as applicable)
9. Pakistan Engineering Council (PEC) regulations – valid PEC certificate required

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8. Vendor Obligations / Compliance

1. The vendor must hold a valid PEC Certificate at the time of tender submission.
2. The vendor must be an authorised distributor of the cable brand (PONY / 3M Corning or equivalent); documentary proof is mandatory.
3. All equipment must be brand-new and sourced from approved manufacturers; no refurbished or grey-market equipment will be accepted.
4. The vendor is responsible for the safe delivery, handling, and storage of all equipment on site.
5. All works must be executed as per the approved network topology drawing and as directed by the Engineer (Muhammad Ahmed Buland Khan).
6. The vendor must coordinate with KIBGE/University of Karachi management for access, scheduling, and site safety.
7. The vendor shall obtain the required gate passes from the Campus Security Office, University of Karachi, for material delivery as well as entry of the implementation/installation team, to ensure smooth execution of the work. Any applicable charges shall be borne by the vendor.
8. The vendor must obtain written approval before substituting any specified brand or model.
9. A minimum of 1-year on-site hardware warranty on all active equipment and installation workmanship is mandatory.
10. The vendor shall provide all tools, test equipment, and consumables required to complete the works.

9. Project Acceptance / Completion Criteria

The project will be considered complete and accepted when all of the following conditions are met:

1. All cable runs pass applicable TIA-568-C.2 (copper) and OTDR (fiber) tests with results within specified limits.
2. All switches, routers, and WiFi's are operational and configured as specified.
3. All IP phone extensions are able to make and receive calls.
4. WiFi coverage is verified at all specified locations with acceptable signal strength.
5. All documentation (test reports, as-built drawings) has been submitted and accepted.
6. All equipment datasheets, compliance certificates, and warranty documents have been handed over.
7. Engineer (Muhammad Ahmed Buland Khan) has signed off on the final inspection in consultation with the Administrator/Administrative Officer.

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Page 18 of 24



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8. Bill of Quantity:

Complete Overhauling of KIBGE Networking Infrastructure with Fiber Optic Core, Network Segregation and Centralized power Solution



Providing, installation, testing & commissioning of Networking Infrastructure with Fiber Optic Core, Network Segregation and Centralized power Solution to enable KIBGE for smooth and uninterrupted services as per following BOQ.

Sr. No.	Item	Technical Specifications	Qty.	Amount (PKR)
SECTION A – SUPPLY OF MATERIALS & EQUIPMENT				
1.	6U Wall-Mount Rack with Fan	<ul style="list-style-type: none"> Form factor: Wall-mount, 6U Material: Cold-rolled steel, min 1.2 mm Cooling: Min 1×80 mm fan, 240V AC Lockable glass/mesh door with key lock Min 30 kg static load capacity Includes mounting hardware & earth bonding 	06 Units	
2.	6-Port PDU	<ul style="list-style-type: none"> Min 6× Type-G outlets Input: 230V AC, 50 Hz, Single Phase Min 10A / 2300W capacity Built-in surge protection & circuit breaker Min 1.8 m power cord CE/RoHS compliant 	06 Units	
3.	24-Port GrandStream Managed PoE Switch	<ul style="list-style-type: none"> 24× 10/100/1000 PoE+ RJ45 + 2× SFP uplinks IEEE 802.3af/at, min 370W PoE budget Switching capacity: min 52 Gbps VLAN (802.1Q), QoS (802.1p/DSCP) STP/RSTP/MSTP, LACP, 802.1X Web GUI, SNMP v1/v2c/v3, SSH/CLI Internal PSU, 100–240V AC, 1U rack-mount <p>Note: Fiber patch cords shall be provided as required (for switch-switch connectivity) and shall be the responsibility of the contractor.</p>	03 Units	
4.	16-Port GrandStream Managed PoE Switch	<ul style="list-style-type: none"> 16× 10/100/1000 PoE+ RJ45 + 2× SFP uplinks IEEE 802.3af/at, min 250W PoE budget Switching capacity: min 36 Gbps VLAN, QoS, STP/RSTP, LACP, 802.1X Web GUI, SNMP v1/v2c/v3, SSH/CLI Internal PSU, 100–240V AC <p>Note: Fiber patch cords shall be provided as required (for switch-switch connectivity) and shall be the responsibility of the contractor.</p>	09 Units	
5.	WiFi Router GrandStream GWN7062	<ul style="list-style-type: none"> IEEE 802.11ax (Wi-Fi 6), Dual Band Up to 1.77 Gbps aggregate throughput IEEE 802.3af PoE-in, ceiling/wall mount WPA/WPA2/WPA3, VLAN per SSID AAA Authentication using RADIUS Server GWN Cloud & local Web GUI management Up to 100 concurrent wireless clients Model: GWN7052 (GrandStream) 	12 Units	

Sr. No.	Item	Technical Specifications	Qty.	Amount (PKR)
6.	SFP+ 10G Single-Mode Transceiver	<ul style="list-style-type: none"> Type: SFP+ 10GBase-LR Fiber: Single Mode (SMF), 1310 nm Range: up to 10 km Connector: LC Duplex Power: max 1.5W Compliant: IEEE 802.3ae, SFF-8431/8432 RoHS / CE certified 	12 Pairs	
7.	SC-SC Fiber Optic Pigtails	<ul style="list-style-type: none"> SC/UPC to SC/UPC, Single Mode OS2 (9/125 μm) Insertion loss ≤ 0.3 dB; Return loss ≥ 50 dB LSZH or PVC jacket, 2.0 mm or 3.0 mm Compliant: IEC 61754-4, Telcordia GR-326 	20 Units	
8.	Fiber Joint Box (Splice Closure)	<ul style="list-style-type: none"> Min 12 splice trays, IP55 rated ABS/PC or metal housing, gasket sealed Min 4× cable entry ports with grommets Suitable for single mode & multimode fiber Wall-mount bracket included 	12 Units	
9.	Power Cable 40×76	<ul style="list-style-type: none"> PVC insulated flexible copper power cable Rating: 300/500V, IEC 60227 / BS 6004 Color coded per IEC 60446 Flame retardant: IEC 60332-1 	14 Coils	
10.	CAT6 UTP Cable (PONY / 3M Corning or equivalent)	<ul style="list-style-type: none"> Category 6, UTP, 23 AWG solid copper Bandwidth: 250 MHz; up to 1 Gbps / 100 m ANSI/TIA-568-C.2 & ISO/IEC 11801 Class E LSZH jacket preferred; 305 m per coil NEXT ≥ 44.3 dB @ 100 MHz 	05 Coils	
11.	4-Core Indoor/Outdoor Fiber Optic Cable (PONY / 3M Corning or equivalent)	<ul style="list-style-type: none"> Single Mode OS2, ITU-T G.652.D, 9/125 μm Attenuation ≤ 0.4 dB/km @ 1310 nm LSZH jacket (indoor), PE/HDPE (outdoor) Dielectric strength member (no metal armor) Tensile strength min 600 N 	2500 Ft.	
12.	PVC Conduit Pipe with Fittings 1 inch (Jeddah Polymer or equivalent) – approx 5,000 ft	<ul style="list-style-type: none"> Rigid PVC, 25 mm nominal diameter Wall thickness min 1.6 mm (medium duty) UV stabilized, self-extinguishing (IEC 60695) BS EN 61386-1 / IEC 61386 compliant Includes couplers, elbows, saddles, end caps 	01 Job	
13.	Flexible Conduit Pipe 1 inch	<ul style="list-style-type: none"> Polyamide (PA) or HDPE, halogen-free 25 mm internal diameter IP40 minimum (IP68 with fittings) Temp range: -25°C to +105°C Self-extinguishing per IEC 60695 	100 Ft.	
14.	42U Floor-Standing Server Rack with Fan	<ul style="list-style-type: none"> 42U, 600 mm W × 1000/1200 mm D × ~2000 mm H Cold-rolled steel, min 1.5 mm, powder-coated black Lockable tempered glass front & mesh rear doors Min 2× 120 mm thermostat-controlled roof fans Load capacity min 700 kg 4× leveling feet + 4× castor wheels with brakes Includes 10× blanking panels & M6 cage nuts 	01 Unit	

Sr. No.	Item	Technical Specifications	Qty.	Amount (PKR)
15.	ODF 24-Port Loaded	<ul style="list-style-type: none"> • 1U rack-mount Optical Distribution Frame • 24 ports, SC/UPC adapters, fully loaded • Insertion loss ≤ 0.3 dB; Return loss ≥ 50 dB • Steel chassis, dust shutters on all adapters • IEC 61754 & TIA-568-C compliant 	01 Unit	
16.	Cable Manager (1U Rack-Mount)	<ul style="list-style-type: none"> • 19-inch 1U horizontal cable manager with cover • Min 5× cable management rings/guides • Suitable for min 50× CAT6 or fiber patch cables • Hinged/removable cover, black powder-coated 	08 Units	
17.	SFP Core Switch 24-Port	<ul style="list-style-type: none"> • Layer 3 managed, 24× SFP/SFP+ slots (1G/10G) • Min 4× 10G SFP+ uplink ports • Switching capacity: min 480 Gbps • Static routing, RIP, OSPF; VLAN 802.1Q • MSTP, LACP, VRRP; RADIUS/TACACS+ • Dual redundant hot-swappable PSU • SNMP v1/v2c/v3, SSH v2, Web GUI, Syslog <p>Note: Fiber patch cords shall be provided as required (for switch-switch connectivity) and shall be the responsibility of the contractor.</p>	01 Unit	
18.	RJ45 Connectors	<ul style="list-style-type: none"> • CAT6 rated, 8P8C modular plug • 23–24 AWG solid/stranded conductor • ANSI/TIA-568-C.2 compliant • Min 750 mating cycles 	02 Box	
19.	Faceplates & Ios with Backboxes	<p>Faceplates:</p> <ul style="list-style-type: none"> • High-impact thermoplastic (ABS / PVC) • Double-gang (146 × 86 mm) • Minimum 2.5–3.0 mm <p>IOs:</p> <ul style="list-style-type: none"> • RJ45 Cat6 / Cat6A (TIA/EIA-568 compliant) <p>Backboxes:</p> <ul style="list-style-type: none"> • PVC or ABS (high-strength) • 35 mm depth • Rounded internal edges to prevent cable damage <p>Note:</p> <p>Faceplates, I/O modules, and back boxes shall be:</p> <ul style="list-style-type: none"> • Fully compatible within the same system • Replaceable without wall modification <p>Modular layout shall allow future expansion or reconfiguration</p>	70 each	
20.	Keystone Jacks	<ul style="list-style-type: none"> • Type: Modular RJ45 Keystone Jack • Category: Category 6 • Standards Compliance: ANSI/TIA-568.2-D, ISO/IEC 11801 • Shielding: Unshielded (UTP) unless otherwise specified 	130	

Sr. No.	Item	Technical Specifications	Qty.	Amount (PKR)
		<ul style="list-style-type: none"> • Wiring Configuration: Color-coded for T568A and T568B • Compatibility: Suitable for standard keystone faceplates and patch panels • Applications: 10/100/1000Base-T Ethernet and PoE / PoE+ / PoE++ • Testing: Factory tested; site testing to verify continuity and performance 		
21.	Cat 6 Patch Cords	<ul style="list-style-type: none"> • Type: Category 6 factory-terminated patch cord • Cable: 4-pair (8-core) stranded bare copper, 24 AWG • Performance: Compliant with ANSI/TIA-568.2-D Cat 6, 250 MHz • Length: 3m • Wiring: TIA/EIA-568-B • Support Applications: 10/100/1000Base-T, 10GBase-T (up to 55 m), PoE/PoE+/PoE++ • Testing: 100% factory tested for wire-map, continuity, and performance • Compliance: RoHS compliant, UL/ETL listed • Warranty: Minimum 1-year manufacturer warranty 	100	
TOTAL AMOUNT (Section A – Supply)				
GST @ 18%				
NET TOTAL – SECTION A				
SECTION B – INSTALLATION & SERVICES				
1.	Laying of Pipe (approx: 5,000 ft)	<ul style="list-style-type: none"> • Rigid PVC/flexible conduit installation • Includes all bends, fittings, and supports • Per approved drawing and site requirements 	01 Job	
2.	Laying of Cable (approx: 16,700 ft)	<ul style="list-style-type: none"> • All CAT6, fiber optic, and power cable routing • Through conduit, trunking, or flexible pipe • Labeled at both ends per TIA-606-B 	01 Job	
3.	Installation, Testing & Commissioning	<ul style="list-style-type: none"> • Rack leveling, anchoring, bonding, and equipment installation • Switch/router configuration: VLAN, QoS, STP, PoE, security • WiFi: SSID, WPA3, channel planning, VLAN mapping • IP telephony (PABX) registration, dial-plan, voicemail • End-to-end connectivity, throughput, and VoIP quality tests • As-built drawings, IP register, port-assignment sheet handover 	01 Job	
4.	Delivery & Transportation	<ul style="list-style-type: none"> • Delivery of all equipment/materials to KIBGE site • Original manufacturer packaging, insured transit • Coordinate with site in-charge (min 24 hr notice) 	01 Job	



Sr. No.	Item	Technical Specifications	Qty.	Amount (PKR)
5.	Fiber Splicing	<ul style="list-style-type: none"> • Fusion splicing only; max 0.1 dB loss per splice • Heat-shrink protection per splice • Bidirectional OTDR at 1310 nm & 1550 nm • OTDR trace records and splice logs submitted 	01 Job	
6.	Complete Networking for Residential Buildings (approx: 4,000 ft cable)	<ul style="list-style-type: none"> • Full data network setup with material supply • CAT6 cabling, switches, WiFi routers as required • Testing and commissioning included 	01 Job	
7.	Manage Old Wiring & Ducting with Tagging in Server Room	<ul style="list-style-type: none"> • Remove/reroute decommissioned cables • Label and document all retained infrastructure • Organize server room as per Engineer/Directorate approval 	01 Job	
TOTAL AMOUNT (Section B – Services)				
SST @ 15%				
NET TOTAL – SECTION B				
GRAND TOTAL (Section A + Section B)				



Grand Total Rupees (in words) _____

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 Signature and Stamp

It is hereby certified that the terms and conditions have been read, agreed upon and signed.

M/s _____

Contact Person _____

Address _____

Tel # _____ Fax _____

Mobile _____ Email _____

Provide the following details (Mandatory) and attach the supporting documents.

NTN No.	STRN No.	SRB No.	Declaration of Non-Black Listing

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**Dr. A. Q. Khan Institute of Biotechnology
and Genetic Engineering (KIBGE)
University of Karachi**



Tel: +9221-99261180-1

Ref: No. K.I.B.G.E. Admin/OO- 028/2024

March 06, 2024

OFFICE ORDER NO. 028/2024

The competent authority is pleased to reconstitute the institutional "Complaint Redressal Committee" to address the complaints of bidders that may occur during the procurement proceedings.

The composition of the said committee is given as under.

- 1) Prof. Khalid Mahmood Iraqi, Director General (Acting), Convener
- 2) Representative of Accountant General Sindh, Member
- 3) An Independent Professional, Member
- 4) End User (by invitation, non-signatory)

Imran Rafiq
Administrative Officer

Copy to:

1. The Vice Chancellor/Chairman (Governing Council, KIBGE)
2. Director General (Acting)
3. Accounts Section
4. File concerned



**The Karachi Institute of Biotechnology
and Genetic Engineering (KIBGE)
University of Karachi**
Karachi-75270, Pakistan



Tel: +9221-99261180-1
Email kibge@kibge.edu.pk

Ref: No. K.I.B.G.E. Admin OO- 012 /2022

February 14, 2022

OFFICE ORDER NO. 012 /2022

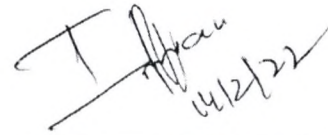
In pursuance of the Sindh Public Procurement Regulatory Authority (SPPRA) Rules 2010 vide clause No: 07, the Competent Authority is pleased to constitute the following 'Procurement Committee' of the institute.

Internal Members

- 1) Dr. Saddia Galani, Associate Professor (Convenor)
- 2) Mr. Muhammad Naveed Akhtar, Chief Accounts Officer
- 3) Mr. Muhammad Manaf, Procurement Officer

External Members

1. Syed Akbar Hussain Kazmi, Manager Finance (Payables), IBA, Karachi
2. Mr. Fawad-ul-Hasan Kamran, Assistant Director, NED University, Karachi


14/2/22

Imran Rafiq
Administrative Officer

Imran Rafiq
Administrative Officer
Dr. A. Q. Khan Institute of Biotechnology
& Genetic Engineering (KIBGE)
University of Karachi

Copy to:

1. Director General
2. Accounts Section
3. Procurement Officer
4. File Concerned

Integrity Pact

DECLARATION OF FEE, COMMISSION AND BROKERAGE ETC PAYABLE BY THE SUPPLIER/CONTRACTOR/CONSULTANTS.

Procuring Agency: KIBGE, University of Karachi

- (a) Its intention is not to obtain the Provide & Supply work of any Contract, right, interest, privilege, or other obligation or benefit from the KIBGE or any administrative or financial offices thereof or any other department under the control of the KIBGE through any corrupt practice(s).
- (b) Without limiting the generality of the forgoing the Bidder represents and warrants that it has fully declared the charges, fees, commission, taxes, levies etc., paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within the KIBGE directly or indirectly through any means any commission, gratification, bribe, gifts, kickback whether described as consultation fee or otherwise, with the object of obtaining or including the Provide & Supply or service contract or order or other obligations whatsoever from the KIBGE, except that which has been expressly declared pursuant hereto.
- (c) The Bidder accepts full responsibility and strict liability for making any false declaration/statement, not making full disclosure, misrepresenting facts or taking any action likely to degrade the purpose of declaration, representation and warranty. It agrees that any contract/order obtained aforesaid shall without prejudice to any other right & remedies available to the KIBGE under any law, contract, or other instruments, be stand void at the discretion of the KIBGE.
- (d) Notwithstanding any right and remedies exercised by the KIBGE in this regard, Bidder agrees to indemnify the KIBGE for any loss or damage incurred by it on account of its corrupt business practice & further pay compensation to the KIBGE in any amount equivalent to the loss of any commission, gratification, bribe, gifts, kickback given by the company/firm/supplier/agency/bidder as aforesaid for the purpose of obtaining or inducing Provide & Supply/work/service or other obligation or benefit in whatsoever from the KIBGE.

Note:

This integrity pact is a mandatory requirement other than auxiliary services/works.


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Annual Procurement Plan for the FY 2025-26
The Karachi Institute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi

Procurement Plan ID	Procurement Type	Item / Scheme Title	Procurement / Service Description	Quantity (where applicable)	Estimated Unit Cost (where applicable)	Estimated Total Cost in Million	Funds Allocated in Million	Source of Funds	Proposed Procurement Procedure	Proposed Procurement Method	Tentative Time of Procurement
KIBGE/001/2026	Services/Goods	Tender for Complete Overhauling of KIBGE Networking Infrastructure with Fiber Optic Core, Network Segregation and Centralized Power Solution.	Complete Overhauling of KIBGE Networking Infrastructure with Fiber Optic Core, Network Segregation and Centralized Power Solution.	NA	NA	7.0-Million	NA	Non ADP	Single Stage – One Envelope	National Bidding	4th Quarter
KIBGE/002/2026	Scientific Equipments	Tender for Purchasing Scientific Laboratory Equipments	Strengthening of existing Research Laboratory at KIBGE	NA	NA	5.5-Million	NA	Non ADP	Single Stage – One Envelope	National Bidding	4th Quarter
KIBGE/003/2026	Laboratory Consumables	Tender for Purchasing Laboratory Consumable	Strengthening of existing Research Laboratory at KIBGE	NA	NA	5.0-Million	NA	Non ADP	Single Stage – One Envelope	National Bidding	4th Quarter

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[Handwritten Signature]

