

HIRING OF SERVICES TO CONDUCT ELECTRICAL SAFETY AUDIT AT ENTIRE PIA INFRASTRUCTURE KAP

PIA invites sealed bids on single stage single envelope basis from reputable Firms to conduct comprehensive Electrical Safety Audit & Energy Audit of entire PIA infrastructure KAP.

Submission of Bids:

The bidding process shall be carried out on “**Single Stage, Single Envelop**” basis as per PPRA rules # 36(a).

Bidding documents, containing detailed terms and conditions, etc. are available electronically and can be downloaded from PIA Website www.piac.com.pk, PPRA Website www.ppra.org.pk as well as from PPRA E-PADS <https://eprocure.gov.pk/#/auth/login>. Bidders need to get registered at E-PADS (PPRA) to access the tender document and other relevant information including electronic bid submission. Price of the bidding documents is PKR 5000 (non- Refundable) and Bid security PKR 35000 /- (refundable) to be submitted through a pay order in the name of PIACL along with the proposal.

The bids prepared in accordance with the instructions in the bidding documents must be submitted through EPADS on or before **30-12-2025** at 1500 Hrs (PST). Bids will be opened on the same day at 1530 Hrs through EPADS. Bidders MUST submit their bids through E-PADS, Manual submission of bid without E-PADS electronic bid is NOT allowed. The original Pay Order for Tender Fee & Bid Security to be submitted with Proposal, Addressed to GM Facilities Management Department, PIA Head Office, Karachi, as per above mentioned date & time. PIACL reserves the right to reject any or all bids or cancel the tender process at any stage in line with PPRA rules.

MANAGER PROJECTS

1ST FLOOR, FLIGHT OPERATION BUILDING

PIA HEAD OFFICE.

Tel: 021-99043227

Email: Saniya.malik@piac.aero, khiwepk@piac.aero

INVITATION TO BID

HIRING OF SERVICES TO CONDUCT ELECTRICAL SAFETY AUDIT AT ENTIRE PIA INFRASTRUCTURE KAP

PIA invites sealed bids on single stage single envelope basis from reputable Firms to conduct comprehensive Electrical Safety Audit & Energy Audit of entire PIA infrastructure KAP.

The interested Contractors are requested to send their applications to the Office of undersigned along with following details:

1. Company Profile.
2. Proof of carrying out at least five (05) Electrical Safety and Energy Audit in large scale organizations or any multistoried Office buildings / Plants with a minimum Connected load of 2000 KW in last 05 Years.
3. Proof that the company is an ISO 9001 and ISO 17020 Certified Company.
4. Proof of Office in Karachi with technically qualified staff to render the said services.
5. Proof of Sindh Sales Tax Registration, NTN Certificate, ATL.
6. Certificates of Bank showing Credit worthiness along with Bank Statement (last 03
7. Years).
8. Affidavit on stamp paper of Rs. 500/-duly attested by the Oath commissioner that the Firm has never been black listed by any Organization and is not a tax defaulter.
9. List of any arbitration / dispute with any Client present or past and nature thereof

Submission of Bids:

The bidding process shall be carried out on “**Single Stage, Single Envelop**” basis as per PPRA rules # 36(a).

Bidding documents, containing detailed terms and conditions, etc. are available electronically and can be downloaded from PIA Website www.piac.com.pk, PPRA Website www.ppra.org.pk as well as from PPRA E-PADS <https://eprocare.gov.pk/#/auth/login>. Bidders need to get registered at E-PADS (PPRA) to access the tender document and other relevant information including electronic bid submission. Price of the bidding documents is PKR 5000 (non- Refundable) and Bid security PKR 35000 /- (refundable) to be submitted through a pay order in the name of PIACL along with the proposal.

The bids prepared in accordance with the instructions in the bidding documents must be submitted through EPADS on or before **30-12-2025** at 1500 Hrs (PST). Bids will be opened on the same day at 1530 Hrs through EPADS. Bidders MUST submit their bids through E-PADS, Manual submission of bid without E-PADS electronic bid is NOT allowed. The original Pay Order for Tender Fee & Bid Security to be submitted with Proposal, Addressed to GM Facilities Management Department, PIA Head Office, Karachi, as per above mentioned date & time. PIACL reserves the right to reject any or all bids or cancel the tender process at any stage in line with PPRA rules.

MANAGER PROJECTS

1ST FLOOR, FLIGHT OPERATION BUILDING

PIA HEAD OFFICE.

Tel: 021-99043227

Email: Saniya.malik@piac.aero, khiwepk@piac.aero

1. DATA SHEET

1.	<u>The name of the Assignment is:</u> <u>HIRING OF SERVICES TO CONDUCT ELECTRICAL SAFETY AUDIT AT ENTIRE PIA INFRASTRUCTURE KAP</u>
2.	<u>The name of the Client is:</u> <u>Pakistan International Airlines Corporation Limited (PIACL)</u>
3.	<u>The description and the objectives of the assignment are:</u> <u>HIRING OF SERVICES TO CONDUCT ELECTRICAL SAFETY AUDIT AT ENTIRE PIA INFRASTRUCTURE KAP</u>
4.	Phasing of the Assignment (if any): NO
5.	<u>Pre-Proposal Conference:</u> _____ <u>(If required before opening date.)</u>
6.	<u>The name(s) and address(es) of the Client's Official(s) is (are) to be contacted</u> <u>DGM UTILITIES</u> 1 ST FLOOR, FLIGHT OPERATION BUILDING PIA HEAD OFFICE. Tel: 021-99044267 Email: khiwepk@piac.aero
7.	<u>The Client shall provide the following inputs:</u> <u>All Data and Reports available with Client</u>
8.	<u>Association with other Firms/JV : NOT ALLOWED</u>
9.	<u>The number of copies of the Proposal required are:</u> <u>Original Only</u>
10.	<u>The address for writing on the proposal is</u> <u>MANAGER PROJECTS</u> 1 ST FLOOR, FLIGHT OPERATION BUILDING PIA HEAD OFFICE. Tel: 021-99043227 Email: Saniya.malik@piac.aero , khiwepk@piac.aero
11.	<u>Date and time of proposal submission is before 30-12-2025 , at 15:00 Hours.</u>
12.	<u>Date and time of opening of Proposal is 30-12-2025 ,at 15:30 Hours.</u>
13.	<u>Validity period of the proposal is: 120 Days</u>
14.	<u>The location for submission of proposal is:</u> <u>GENERAL MANAGER</u> <u>(FACILITIES MANAGEMENT DIVISION)</u> 1 ST FLOOR, FLIGHT OPERATION BUILDING PIA HEAD OFFICE. Tel: 021-9904640 Email: gm.facilitiesmanagement@piac.aero
15.	<u>Assignment Completion Period: 02 Months</u>
16.	<u>Evaluation criteria = Lowest quoted</u>

2. TERMS OF REFERENCES

1. **Rate.** Rates must be quoted in Pak Rupees (Inclusive of all taxes and duties imposed by the Government). Applicable duties / Taxes must also be mentioned separately in the proposal. Prices mentioned without GST/ applicable taxes will be considered inclusive of all taxes including SST, GST, and WHT and so on.
2. **Registered firm:** Only sales tax registered firms can apply.
3. **Bid Security/Earnest Money (REFUNDABLE).** Bid security **PKR 35000** /-in form of Pay order/Bank draft is to be submitted with bids in favor of PIA given A/C detail. Cross cheques /Cash will not be accepted with financial bid.
4. **Validity of Offer.** The validity period of bids must be of 120 days.
5. **Bid Acceptance.** Award of purchase order will be issued strictly on the technical qualification or as per Document Checklist after meeting all mandatory requirements.
6. **Security Deposit** Security deposit 10% will be deducted from each running bill and same will be returned after six months. In case of any discrepancy found in work the same will be withheld without prior notification till such time the discrepancy shall be removed by the firm at his own cost and risk.
7. **Delivery.** Deliverables must reach at concerned site within a month. If deliverable material is found defective or sub-standard or not in accordance with the standards, the supplier will be required to replace them at his own cost.
8. **Inspection.** Inspections of material will be done by Project In-charge as per specification, Time to time to ascertain quality material used in the project.
9. **Price Variation.** Prices offered against this tender are to be firm and final.
12. **Payment terms:** Payment will be released after 21 days of receipt of each Bill from contractor
13. **Company Profile:** Interested firm must submit their company profile detail documents along with previous / in hand order detail.
14. **Scope of Work:** As per attached BOQ.
15. **Proposal Evaluation**
Lowest Quotation Basis
16. **General Specifications:**
FIDIC / PEC Standards should be followed in letter and spirit.
- 17 **Penalty clause:** In the event of any delay in completion of this work by the contractor, he shall inform PIAC, before expiry of such period giving reasons / justification for delay. However, PIACL, reserves the right to take following actions:-
 - a. Evaluate the request for extension in delivery period, as per its merit and may consider extension in delivery period or otherwise.

b. In case of late delivery for the reasons well within control of the party, liquidation damages at the rate of 1% per week but not exceeding 10% of the total value of the project may be levied.

18. Arrangement of Passes for entry into Apron areas is contractor's responsibility.

DOCUMENT CHECKLIST

M/s _____

BIDS DOCUMENTS

TICK APPROPRIATE BOX

S.NO.	DOCUMENTS	AVAILABILITY	
		<input type="checkbox"/> YES	<input type="checkbox"/> NO
1	Sealed Envelope of Bid.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2	Proof of carrying out at least five (05) Electrical Safety and Energy Audit in large scale organizations or any multistoried Office buildings / Plants with a minimum Connected load of 2000 KW in last 05 Years.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
3	Proof that the company is an ISO 9001 and ISO 17020 Certified Company.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4	Proof of Office in Karachi with technically qualified staff to render the said services.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
5	Financial status with Bank Certificate.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
6	Latest bank statement with 03 years history.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
7	Valid NTN certificate.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
8	Details of dispute / arbitration / litigation, if any.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
09	Pay Order of Rs. 5,000/- (nonrefundable) Bid security PKR 35,000 (REFUNDABLE)	Yes <input type="checkbox"/>	No <input type="checkbox"/>

All documents stated in checklist are mandatory. If any requirement stated above (1-9) is not marked, the bid will be turned down and will not be considered in the competition.

SIGNATURE OF SERVICE PROVIDER _____

CHECKED &
VERIFIED BY

(Manager Projects)



SCOPE OF WORK

1. Introduction / Objective

The primary objective of the Electrical Safety and Energy Audit is to assess the overall health, safety, compliance, and efficiency of the electrical infrastructure. The audit aims to identify hazards, confirm adherence to national/international standards, and recommend measures to improve system reliability and reduce energy consumption.

1. Scope of Services for this will include:

A. Electrical Safety Audit

A1. Physical Inspection of Electrical Installations

- Inspection of LT/HT substations
- Transformers, switchgear, MCCs, DBs, PDBs
- Cables, joints, terminations, identification tags
- Circuit breakers, relays, RCDs, ELCBs
- Lighting fixtures, sockets, and industrial plugs
- Server rooms, UPS systems, batteries
- Earthing/grounding systems and lightning protection
- Generators and ATS/AMF panels

A2. Safety Risk Assessment

- Identification of unsafe acts and unsafe conditions
- Detection of overloaded circuits
- Hot spots, loose connections, and abnormal vibrations
- Improper cable dressing or unprotected wiring
- Water leakage or dampness near electrical equipment
- Inadequate clearances or ventilation
- Assessment of fire hazards, emergency exits, and fire suppression systems
- Review of personal protective equipment (PPE) usage
- Evaluation of isolation & lockout-tagout (LOTO) practices

A3. Thermography Analysis

- IR thermal scanning for:
 - Panels, breakers, busbars, terminations
 - Cables and connections
 - Transformers and motors
- Detection of:
 - Overheating
 - Phase imbalance
 - Loose contacts
 - Overloading
- Classification of findings into critical, major, and minor severity levels



A4. Testing & Measurements

Conduct field measurements using calibrated instruments, such as:

- Earth resistance testing
- Insulation resistance testing
- Continuity testing
- Voltage imbalance, current imbalance
- Harmonic distortion levels
- Power quality analysis (THD, PF, flicker, surges, dips, spikes)

A5. Compliance Verification

- Compliance with electrical safety standards:
 - IEC 60364
 - IEC 60947
 - NFPA 70 / NEC
 - Local building & energy codes
- Verification of proper labeling & danger signage
- Checking availability & validity of equipment test certificates

A6. Reporting & Recommendations

- Detailed report including:
 - Observations with photographs
 - Test results and thermography images
 - Risk categorization (Critical / Major / Moderate / Low)
 - Root cause analysis
 - Recommendations for corrective actions
 - Cost estimates for recommendations
- Preparation of:
 - Safety compliance scorecard
 - Priority matrix for rectification
 - Proposed improvement roadmap
 - Preparation of Electrical System Layout Plan including Single Line Diagram of Electrical System and Single Line Diagram of Distribution & Control Panels

A7 Deliverables:

a) An inspection/audit report highlighting current condition of electrical system and existing Problems, underlying reasons, solutions, and a management plan to implement these recommendations.

b) Documented advice on suitable methods & reliable sources for implementation of recommendations

For: **Pakistan International Airlines**

Seal & Signature
Of the contractor



c) Final Audit report will be submitted within 2 to 4 weeks after the completion of data collection.
(1) Hard copy and (1) Soft copy of the report will be submitted.

d) Action Plan, Rectifications and Recommendations.

e) Cost estimates for all proposed recommendations

F) Electrical System Layout Plan including Single Line Diagram of Electrical System and Single Line Diagram of Distribution & Control Panels

2. LOCATIONS:

NON APRON

1. HEADOFFICE
2. COMPUTER BUILDING
3. SAFETY BUILDING
4. SUPPLY CHAIN BUILDING
5. MT AND MEDICAL BUILDING
6. FLIGHT OPERATION
7. PNEUMATIC
8. PTC AND SIMULATOR
9. FLIGHT KITCHEN
10. CARGO
11. TGS

APRON

1. LM1
2. LM2
3. JET HANGAR
4. WHEEL BAY
5. WIDE BODY HANGAR
6. JTC OFFICES
7. ALL OTHER ENGG PREMISES

For: **Pakistan International Airlines**

Seal & Signature
Of the contractor



FINANCIAL EVALUATION

SNO.	DESCRIPTION	AMOUNT QUOTED
1	SERVICES FEE FOR ELECTRICAL SAFETY AND ENERGY AUDIT OF ALL PIA INFRASTRUCTURE	
	TOTAL INCLUSIVE OF ALL APPLICABLE TAXES	

Note:

- Must be inclusive of all applicable taxes.
- All contractors are advised to ensure prior visit of site before submitting the tender, for assessment of job, but not mandatory.
- The amount quoted should include transportation charges if applicable.
- All required Personal Protective Equipment should be made available by contractor before start of work, the same will be verified by PIACL Safety department.
- Security deposit of 10% will be withheld for 01 year and will be returned after satisfactory certificate received from user.
- Arrangement of Apron passes is contractor responsibility.

For: **Pakistan International Airlines**

Seal & Signature
Of the contractor



ANNEXURE 'A'

PERMIT TO WORK

Seal & Signature
Of the contractor

For: **Pakistan International Airlines**