

**SUPPLY, INSTALLATION, TESTING AND
COMMISSIONING OF 11 KV VCB (VACUUM CIRCUIT
BREAKER) PANELS FOR SUB-STATION**

AT

**STATE LIFE BUILDING - 9 & 11,
KARACHI**

TENDER NO. PEN/RE/EW/KHI/AUG/4911/2022

TECHNICAL BID



STATE LIFE

INSURANCE CORPORATION OF PAKISTAN

**SUPPLY, INSTALLATION, COMMISSIONING AND TESTING OF 11 KV VCB
(VACUUM CIRCUIT BREAKER) PANELS FOR SUB-STATION AT STATE LIFE
BUILDING NO. 9 & 11, KARACHI.**

TENDER NO. PEN/RE/EW/KHI/AUG/4911/2022

POST QUALIFICATION DOCUMENTS

Real Estate Division,
5th Floor, State Life Building – 9,
Dr. Ziauddin Ahmed Road, Karachi.
Ph: 021-99204525

POST QUALIFICATION DOCUMENTS
TENDER NO. PEN/RE/EW/KHI/AUG/4911/2022

**SUPPLY, INSTALLATION, COMMISSIONING AND TESTING OF 11 KV VCB (VACUUM
CIRCUIT BREAKER) PANEL FOR SUB-STATION AT STATE LIFE BUILDING NO. 9 & 11,
KARACHI.**

INSTRUCTIONS FOR THE POST QUALIFICATION

All Tenderers desiring to qualify for this contract should complete the post qualification documents.

All inquiries related to this document and or / post qualification forms should be addressed in writing to:

Assistant Manager

State Life Insurance Corporation of Pakistan,
Real Estate Division,
5th Floor, State Life Building No. 9,
Dr. Ziauddin Ahmed Road,
Karachi 021-99204525

BASIC CONDITIONS FOR POST -QUALIFICATION

1. Information supplied by the bidders for the post qualification statement must apply to the company named on the statement. The substitution of background information pertinent to post qualification will not be considered for another company related to the applicant company through a "Group Ownership". Contracts will be awarded only to the post qualified companies.
2. The SLIC will review the information supplied by the firms for post qualifications. Financial Bids of only those tenderers which pass the Post Qualification process will be opened in the presence of tenderer's representative who chooses to attend at a time to be determined later. The Financial Bid Documents of the Tenderers who fail to post qualify shall be returned to them unopened (As per single stage two envelope procedure of PPRA Rules)
3. Firms applying for post-qualification individually are advised that any variation of constitution or membership from that put forward in response to this notice, without prior approval of the SLIC may result in disqualification of the firm of any tender it may submit.
4. The response to this notice' must be sufficiently detailed to convince the SLIC that the firms applying for registration have the experience as well as the technical administration and financial qualifications necessary for the execution of the subject works and they must prove that they have carried out similar works.

5. Firms submitting post qualification applications may be required during the review process to make personal presentation of their qualifications to the SLIC. If so, the authorized representative of the firm will be required to be present.
6. All post qualification statement documentation including financial statement, auditor's report and bank references shall be in English Language (a legally attested copy shall be required with the post qualification forms).
7. Firm shall submit copies of the following certificates/information with Technical Bid:
 - i. Pakistan Engineering Council (Except C-6).
 - ii. License to Electrical Contractor (Electric Inspector Govt. of Sindh)
 - iii. GST Registration Certificate.
 - iv. SST Registration Certificate from SRB.
 - v. NTN Number
 - vi. Company Profile
 - vii. The bidder must supply the equipment manufactured by original manufacturer and must provide OEM (Original Equipment Manufacturer) Certificate with Technical Bid.

RETURN TO:

Assistant Manager

State Life Insurance Corporation of Pakistan,
Real Estate Division,
5th Floor, State Life Building No. 9,
Dr. Ziauddin Ahmed Road,
Karachi. 021-99204525

Please complete the following:

1. a. SUBMITTED BY.....
- b. REGISTERED ADDRESS.....

2. COMPANY INFORMATION

- a. FULL/FIRM NAME OF THE COMPANY.....
 - b. REGISTERED OFFICE ADDRESS.....
 - c. DESCRIPTION OF COMPANY FIRM.....
 - d. TELEPHONE NUMBER.....
 - e. E-MAIL.....FAX.....
 - f. CONTRACT'S NAME/ TITLE.....
 - g. NAME OF PRESENT EXECUTIVE
DIRECTOR AND THEIR POSITION.....
- IN THE COMPANY WITH BIO-DATA.....

PROVIDE COPY OF MEMORANDUM AND ARTICLE OF ASSOCIATION OR PARTNERSHIP DEED,
WHICH EVER IS APPLICABLE.

3. ORGANIZATION AND FINANCIAL DATA:

- a. TYPE OF BUSINESS ORGANIZATION (CORPORATION JOINT VENTURE PARTNERSHIP ETC).
- b. IF JOINT VENTURE, NAMES OF THE JOINT VENTURE PARTNERS WITH NAME OF THE LEADING PARTNER
- c. IF PARTNERSHIP, NAME OF THE PARTNERS WITH POSITION HELD BY EACH PARTNER
- d. IF CORPORATION PROVIDE THE NAME AND THE TITLE OF PRINCIPALS (PRESIDENT, VICE PRESIDENT, ETC)

WHEN INCORPORATED _____ WHERE _____ COUNTRY STATE

- e. DATE BUSINESS FOUNDED
- f. UNDER PRESENT MANAGEMENT SINCE
- g. ATTACH THE LAST THREE (03) YEARS AUDITED FINANCIAL STATEMENT OF YOUR COMPANY.

If joint venture, financial statement of each firm must be submitted. No statements will be considered unless they are attested and unless certified as being audited by an independent Public Accounting Firm

4. PERFORMANCE RECORD

- a. Please provide a brief resume of works completed by your firm in the last five years including all jobs involving similar nature of works (see attached Form) / Performa. (Documentary evidence as LOA must be attached)
- b. List of Projects currently in progress of similar nature of works. (see attached form) / Performa. (Documentary evidence as LOA must be attached)

5. ORGANIZATION

- a. What is the size of your permanent, employees?
- b. Provide organization chart of your firm indicate lines of communication and reporting responsibility.
- c. Detail of key technical staff with their qualification and experience including of those who would be deputed for the proposed project.
- d. Name of Bankers to the organization with Account Number and address. Bankers report on the credit worthiness of the organization must accompany under a sealed cover.

6. LITIGATION ETC.

Provide detail of all cases: Present and past under dispute or litigation/arbitration.

7. LIST OF REFERENCES:

a. From Clients (attach certificate).

- 1.
- 2.
- 3.

8. CERTIFICATION- SIGNATURE

I hereby certify to the best of my knowledge that the information hereby submitted in this brochure is correct.

NAME : _____

TITLE : _____

SIGNATURE : _____

DATE : _____

SEAL : _____

POST QUALIFICATION FORM – 1

List Previous Experience of Similar Nature of Works (For Past Five Years)

TENDER NO. PEN/RE/EW/KHI/AUG/4911/2022

NAME OF PROJECT & LOCATION	FULL NAME & ADDRESS OF CLIENT	TYPE OF CONTRACT/ PERIOD OF CONTRACT	CONTRACT VALUE (INDICATE CURRENCY IN PAK RS. ONLY)	STATE ANY PENALTIES, CLAIMS, ARBITRATION	TYPE OF WORK	CARRIED OUT ALONG OR IN PARTNERSHIP (IF IN PARTNERSHIP STATE SHARE & NAME OF PARTNER)	START DATE	DATE OF COMPLETION

POST QUALIFICATION FORM – 2

List All Projects of Similar Nature, Which Your Firm Has Under Way At This Time.

TENDER NO. PEN/RE/EW/KHI/AUG/4911/2022

NAME OF PROJECT & LOCATION	FULL NAME & ADDRESS OF CLIENT	TYPE OF CONTRACT/ PERIOD OF CONTRACT	CONTRACT VALUE (INDICATE CURRENCY IN PAK RS. ONLY)	STATE AY PENALTIES, CLAIMS, ARBITRATION	TYPE OF WORK	CARRIED OUT ALONG OR IN PARTNERSHIP (IF IN PARTNERSHIP STATE SHARE & NAME OF PARTNER)	START DATE	EXPECTED DATE OF COMPLETION

SPECIFICATION OF MV PANEL

1. SCOPE OF WORK:

MV VCB TYPE PANEL / BOARD

- i. The work under this section consists of supplying, testing, connecting and commissioning of all material and services of MV Panel/Board as specified herein or stated on the quotation drawings and in the Bill of Quantities.
- ii. The supplier shall discuss the electrical layout with the consultant and co-ordinate at site with other services for exact route, location and position of the electrical lines and equipment.
- iii. The MV Panel/Board with accessories shall also comply with the general specifications for Electrical Works and with other relevant provisions of the quotation document.

2. GENERAL:

The MV Panel/Board shall be sheet steel fabricated, cubical type, totally enclosed, dust tight and vermin proof. It shall be complete in all respect with material and accessories, OEM factory assembled, type tested and finished according to the specifications and to the normal requirements.

The switchboard shall be suitable for front operation only and shall:

- Be suitable for addition of units, on either side, in future.
- Be provided with adequate clearance from live parts so that flash over cannot be caused by switching surges, vermin, pests, etc.
- Be designed for flush mounting of all instruments on the front side.
- Have all incoming and outgoing connections from the bottom.
- Have the components mounted so as to facilitate ease of maintenance from the front.
- Have provision for lamp test, alarm test, alarm accept and reset facility.
- Be mounted on cable trenches having their own supporting structure of angular or U steel profiles.
- Have bus bar chamber and instrument chamber protected according to International Protection Classification IP4X.

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- Be provided with anti-condensate heater, controlled automatically through adjustable humidistat for maintaining required safe operating condition inside the panel and also avoid condensation. The heater shall also be manually operable and provided with protective miniatures circuit breaker and ON indication lamp. A panel light inside Instrument compartment must be placed with a door limit switch.
- Be equipped with an Energy Analyser as specified in Clause 4.7

3. APPLICABLE STANDARDS / CODES:

The latest edition of the following standards and codes shall be applicable for the materials within the scope of this section;

BS 3245	-	Bus bar
BS 37	-	Meters
IEC 62271-100	-	High voltage A/C circuit breaker IEC 185
		Current transformers
IEC 186 & BS 3941	-	Potential transformer

**4. MATERIAL:
MV SWITCHBOARD**

- The switchboard shall be fabricated with angle –iron framework, welded, grinded, finished and clad with 12 SWG sheet steel, IP4x with Cassette-type breaker, LSC-2B Classified with PM. Cubicles should be suitably divided into compartments each for Busbar, CT/PT, Breaker and Instrumentation. Each compartment should be segregated through earthed metal panels and should incorporate independent pressure relief flaps on each Cable, Circuit Breaker and Busbar Compartments. Panel/Board must be designed enabling high performance and user-friendly operation.
- The Panel/Board should be designed for front access to minimize space requirements. Functional design of each cubicle should provide an easy access to separate compartments within the cubicle, to facilitate access for installation, inspection and testing.

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- The design should ensure effective Internal Arc Containment IAC qualification AFL, Internal arc kA -1 s in the likely event of a major fault occurring within the panel. The gases should be expelled at the top of the cubicle to improve the safety of the operations personnel. All operations to be performed from the front with the door closed. Operations should be simple and logical, with clear status indications of all functions.
- The Panel/Board shall be supplied complete with foundation bolts and other installation materials as recommended by the manufacturer. Proper size cable clamping channels shall be provided for fixing required size of 15 KV XLPE cable. Adequate number of eyebolts shall be provided to facilitate handling and lifting.
- An earth bar of appropriate cross section shall be provided and connected to the body of all sections of the switchboards. The external earth terminal shall be provided for main earth connection. The doors shall be grounded by flexible strap of copper braids.
- The control cabling inside the switchboard shall be suitably numbered and harnessed by means of straps or cords. All indicating, selecting and control equipment shall be suitably arranged and clearly labeled with indelible labels, indicating the rating and designation of fuses, switches etc. The name plates shall be provided on the front of panel for each circuit and component which is accessible from outside. The nameplates shall be of stainless steel with engraved equipment designation having minimum width of 5 mm. Other labeling on the switchboard such as danger

signs, voltage and switchboard / panel identification shall be sufficient size to be legible from a distance of 5 meters.

All metal work of the switchboard shall be cleaned down to bare shining metal phosphate and the surfaces chemically prepared for power coating. Then these shall be coated with powder of colour RAL 7032 and then baked in oven. The thickness of powder coating shall not be less than 120 microns.

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CAPACITY AND BASIC DATA

The switchboard shall be designed to conform to the following requirements.

Rated current	:	630 Amps
Rated nominal voltage	:	11 kV
Rated maximum voltage	:	12 kV
Power frequency withstand voltage	:	28 kV for 1 minute
Rated short circuit capacity	:	350 MVA at 11 kV for one second

RATED BREAKING CURRENTS (1 SECOND RATING)

- | | | | |
|----|-----------------------|---|---|
| a. | Symmetrical | : | 11 kA |
| b. | Asymmetrical | : | 25 kA |
| | Rated making current | : | 2.55 times rated symmetrical breaking current. |
| | Operating duty | : | B-3' – MB-3' – MB Impulse withstands voltage |
| | Control voltage | : | 95 kV |
| a. | Indication / metering | : | 110 volt A.C from secondary of P.T. |
| b. | Tripping voltage | : | Series tripping or 110 volts D.C. from capacity trip unit |

INTERLOCKING

Any interlocking if required inside the MV Panel/Board and between MV Switchboard and other equipment shall be provided as stated on the drawings.

BUS-BARS

The bus-bars shall be made of high conductivity electrolytic copper and shall be completely insulated and mechanically braced to safety withstand the stresses due to short time momentary current under the fault conditions. Copper must be imported and tin plated. The phase identification of bus bars shall be by colours applied (red, yellow and blue). It should be properly insulated with heat shrink sleeves.

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The size of busbar should be based on 45 degree centigrade ambient temperature at rated current. The clearance shall not be reduced on account of the bus bar insulation or the phase barriers.

CIRCUIT BREAKER

The circuit breakers shall be triple pole, with drawable cassette type; with arc interruption in vacuum. The operating characteristics and technical data shall be as given in art. 4.1.1. of this section. It should be maintenance free, cassette type compact design, with no-free standing pole column. It should have high mechanical protection through pole envelope.

The circuit breaker shall have trip free, direct acting motorized operated drive mechanism or manually operated drive mechanism [unless noted otherwise] . For manual operation a handle shall be provided. Interlocking device shall be provided such that the breaker can be closed only when it is in fully plugged in or fully withdraw position, and withdrawal of circuit breaker is only possible in the open or isolated position. Safety shutters shall be provided which will automatically cover the live contact as the circuit breaker is withdrawn. Other interlocks as essentially required safe and proper operation circuit breaker shall be provided. The circuit breaker phases shall be separated by barriers of approved heat resisting , non-tracking insulating material.

A triple pole-grounding switch shall be provided for cable and bus bars earthing, complete with mechanism for interlocking, it with the circuit breaker and the roll out truck, and mechanical indication to show the position of grounding switch. The grounding switch shall be rated to safety carry the fault current due to inadvertent closing of supply circuit breaker and also for making duty on the fault.

The circuit breaker shall have automatic, mechanically operated 'ON' and 'OFF' position indication. Luminous indications shall be provided with 'ON', 'OFF' and 'TRIPPED' position. Additional indication lamps a shown on the drawings shall also be furnished. The circuit breakers shall be provided with ON-OFF push buttons.

Each circuit breaker shall be provided with at least three normally closed and three normally open potential free auxiliary contacts rated for 10 Amps, 230 VAC. Provision shall be made for remote indication of the circuit breakers position/status.

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A test position shall also be provided to facilitate testing operation of circuit breaker manually and by protective relays. Test socket with plug shall be provided for testing the relays.

The circuit breakers shall be complete with necessary secondary wiring with ferrules to indicate the circuit. Protection shall also be provided for all control circuits.

GROUNDING SWITCH

A triple pole grounding switch shall be provided for cable and bus bar earthing and shall be rated to safely carry the fault current due to inadvertent closing of supply circuit breaker and also for making duty on a fault.

CURRENT TRANSFORMERS

Each circuit breaker shall be provided with current transformers having following ratings and characteristics.

Type	:	Cast resin
Number	:	Three single phase units
Burden	:	Suitable for load of protection and instrumentation circuits.
Accuracy	:	5 P 10 for protection and 1.0 for measuring with security factor 5.
Duty	:	For operating relays and instruments.
CT ratio	:	As shown on tender drawings.
No. of cores	:	1 or 2 as required and as shown on tender drawings.
Rating and requirement	:	As shown on drawing and/or Specification in Article 4.1.1.
Rated dynamic current:		2.55 times rated symmetrical short circuit current.

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POTENTIAL TRANSFORMERS

Potential transformers (PT) shall be provided as shown on the quotation drawings and having the following ratings and characteristics.

Type : Cast resin
Number : Three single phase units
Burden : Suitable for load of protection and instrumentation circuits.
Accuracy : Class 0.5
Duty : For operating relays and instruments.

Each PT shall be designed to have two independent secondary windings of specified ratio for connection in star or open delta.

Voltage ratio : 11 kV / 110 V – 110 V
Rated voltage factor : 1.2 continuous and 1.5 for 30 seconds.
Rating & insulation : As shown on drawings and / or specifications.
requirement

PROTECTIVE RELAYS

The circuit breakers shall be provided with inverse definite minimum time non-directional over current relays for phase and earth fault protection. Relay should be flush mounted, self/dual powered which provides protection against Earth Fault, Short Circuit and Over Current. It should have up to 5 last fault records and 100 events accessible via communication port RS485, along with CBF Function. The relay shall have the following common characteristics, unless otherwise specifically mentioned:

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Phase fault over current Setting range

Inverse	:	50-200% of CT secondary rating
Instantaneous	:	200-800% of CT secondary rating. The Instantaneous elements shall also have infinity setting to block their operation, if necessary.
Ground fault	:	20-80% of CT secondary rating with instantaneous element as for phase fault unit.
Time setting range	:	0 – 1 second
Connection	:	5 Amps secondary of CT
Auxiliary supply	:	110 VDC from capacitor trip units in each Tripping breaker panel.
Indication / control	:	110 VAC from secondary pf PT.
Heaters and audible	:	220 VAC from secondary L.T. switchboard. alarm.
Auxiliary contacts	:	Provision for remote indication and / or as required.

CAPACITOR SHUNT TRIP UNIT

In case series tripping is not provided, then each circuit breaker in the three panel and single panel H.T. switchboard shall be provided with 110 volts direct current trip coils, which will be supplied power through the capacitor trip units. The trip coils shall be fed through the relay contacts and the 'OFF' push button. The capacitor trip unit will be fed from 110 volts secondary of potential transformer. The capacitor trip unit shall be suitable for performing two successive tripping operations carried out within five minutes. Every circuit breaker shall be provided with a separate capacitor trip unit.

METERS & SELECTOR SWITCHES

The meter to be provided on three Panel and single panel H.T. switchboard are shown on drawings and shall be as specified below:

AMMETER AND VOLTMETER

The ammeter and voltmeter shall be, flush mounted, moving iron spring controlled having front dimension of 96 x 96 mm. Voltmeter shall have measuring range of 0 – 15 kV and ammeters measuring range shall be as per CT Ratio. Ammeters and voltmeters shall conform to B.S.S. accuracy class 1.0 and suitable for connection to the secondary of PTs and CTs installed on the switchboard.

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SELECTOR SWITCHES

Ammeter selector switch shall be R-Y-B-OFF and voltmeter selector switch RY-YB-BR-OFF. The selector switches shall be complete with front plate and operating lever.

ENERGY ANALYSER

The Energy Analyser should measure currents and voltages and report in real time the rms values for all three phases and neutral. In addition, the energy analyser must calculate Power Factor, Real Power, Reactive Power, Apparent Power, Energy Values, Demand Values, Max Demand Values, THD, etc. It should have a RS485 port for communications with monitoring and control system through MODBUS-RTU communication protocol. It must have an LED on the back side, displaying status of off/on and communication. It should have a large back lit LCD display, displaying Type of measurement, Alarm indicator, maintenance icon, bar graph, units, value, phase, THD, min & max values.

ALARM INDICATION

On occurrence of any fault in the system and subsequent tripping of circuit breakers, audio alarm shall be provided on the three panel and single panel H.T. switchboard, push buttons shall be provided on MV panel for independent resetting of the audio alarm and fault indicating lamp. At least two potential free contacts rated 10 Amps AC or DC shall be available for remote connection.

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**TENDER FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING
OF 11 KV VCB (VACUUM CIRCUIT BREAKER) PANELS FOR SUB-STATION AT
STATE LIFE BUILDING #. 9 & 11 KARACHI
TENDER NO. PEN/RE/EW/KHI/AUG/4911/2022**

1. GENERAL TERMS:

- 1.1. Tender is invited for Supply, Installation, Testing and Commissioning of 11 KV Incoming cum outgoing panel as per attached B.O.Q at State Life Building #. 9 & 11 located at Karachi.
- 1.2. Tender shall be submitted in a sealed envelope. Tender documents (all papers) must be signed and stamped to signify the acceptance of tender's conditions.
- 1.3. Technical services and operating conditions for achieving the performance shall be the responsibility of the Tenderer.
- 1.4. The successful supplier will be required to submit the schedule of supply and installation within Seven (07) Days from the acceptable Letter of Award.
- 1.5. Tender without Bid Security will be rejected.
- 1.6. Any conditional Tender will not be accepted and will be liable to rejection.
- 1.7. Contractor has to clean the site in every respect from unused material, debris and tools on completion of work.
- 1.8. All the works to be carried out under the direct supervision of Electrical Section (Real Estate) Principal Office, Karachi.
- 1.9. Payment to be made as per actual work done.
- 1.10. State Life Insurance Corporation of Pakistan will not be responsible for any loss to life or theft of tool / equipment or consumable material and will not accept any claim, liabilities or compensation.

2. PRE-BID VISIT:

Tenderers are requested to visit the site before submission of Tenders/Bids and ensure that their offers are completed in all respect and that all terms & conditions mentioned in this document shall be strictly complied with. Tenderer must ensure/study the specification, schedules and B.O.Q as are attached with offer to avoid any debate/discussion/dispute during/after execution of work.

No TA/DA will be given to Tenderers for Pre-Bid Visit.

3. PRICES AND ESCALATION:

1. Quoted price shall be inclusive all applicable Taxes GST, Transportation, Insurance, Octari, loading, unloading, lifting and fixing of equipment at Site, as specified in the Tender.
2. No price escalation claim will be entertained in any reason due to change in Taxes, Levy, Wages, Currencies fluctuation or any other change announced by the Central Government / Provincial Government or any local Authority.

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4. MODE OF PAYMENT:

1. 15% advance against schedule Bank Guarantee.
2. 50% will be made after delivery at site.
3. 30% after completion of job.
4. 05% Retention Money will be released after defect liability (i.e., Two (02) years) completion of work.

5. DEFECT LIABILITY PERIOD:

1. Defect liability period shall be started after completion of work for two years
2. The contractor will replace the components if not found according to specification or found defective due to faulty design, material or workmanship or being non-genuine.
3. Cost of removal, rechecking and cartage charges for defective materials sent back to place of manufacturing, be borne by the contractor.

6. DELIVERY AND EXECUTION PERIOD:

The contractor shall furnish a completion certificate that the work has been completed and genuine materials/parts supplied strictly confirm to the specification as laid down in the contract.

The Contractor shall Supply, Repair/Replace install the component within One Hundred fifty (150) Days from the date of commencement of work.

7. LIQUIDATED DAMAGES:

Failure to execute the work within the stipulated time will render him liable to payment of liquidated damages at the rate of 0.02% of contract price per day or part thereof, of delay subject to max. to 10% of Contract amount.

8. SIGNING OF CONTRACT AGREEMENT:

1. Upon acceptance of the tender the supplier shall execute with the State Life Insurance Corporation of Pakistan a proper agreement on judicial stamp paper of containing certain terms and conditions in the form prescribed by the State Life Insurance Corporation of Pakistan within Seven (07) days from the acceptance of Letter of Award.
2. The contract shall be Governed and interpreted in all respects in accordance with the Law of Pakistan.
3. State Life Insurance Corporation of Pakistan reserves the right to reject any or all offers, as per provisions of PPRA Rules.
4. In case of any dispute, Divisional Head (Real Estate) State Life, is the final arbitrary authority to settle the matter and it will be liable to accept the decision by both parties.

9. FACTORY ACCEPTANCE TEST

The bidder must arrange the factory acceptance test with the State Life representatives before the delivery of equipment at Site. All the costs associated with factory inspection test including travel, food, loading will borne by Contractor.

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TENDER FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING
OF 11 VCB (VACUUM CIRCUIT BREAKER) PANELS FOR
SUB-STATION AT STATE LIFE BUILDING #. 9 & 11 KARACHI
TENDER NO. PEN/RE/EW/KHI/AUG/4911/2022
SPECIAL CONDITIONS

1.	Bid Security	Rs. 325,000/- in the form of pay order / bank guarantee by schedule bank in favour of M/s. "State Life Insurance Corporation of Pakistan
2.	Release of Bid Security	a. To unsuccessful Tenderer after award of work. b. To successful Tenderer upon completion of work
3.	Forfeiture of Bid Security	a. If the bid is withdrawn after opening. b. If the bidder does not accept letter of award or refuse of enter in contract
4.	Date of Commencement of Work	Seven (07) days from the date of award of work.
5.	Time of Completion	One Fifty (150) Days from the date of commencement of work
6.	Liquidated Damages	0.02% of the contract price per day (maximum 10% of contract amount)
7.	Maintenance Period	Twenty-four (24) months from date of certificate of completion of works.
8.	Bid/Tender validity period	Five (05) Months
9.	Method of Payment	15% advance on Bank Guarantee 50% will be made after delivery at site. 30% after completion of job. 05% Retention Money
10.	Retention Money	05% (Five percent) of the certified amount
11.	Release of retention money	Upon completion of maintenance period
12.	Payment of income tax	All prevailing government taxes (federal & provincial) including income tax, GST, super tax, sales tax, S.S.T, etc. payable by the contractor should be included in the quoted prices of each item in the bill of quantity. (No Additional payment shall be entertained)

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STATE LIFE INSURANCE CORPORATION OF PAKISTAN
REAL ESTATE DIVISION

INVITATION OF TENDER FOR SUPPLY, INSTALLATION, TESTING AND
COMMISSIONING OF 11 KV VCB (VACUUM CIRCUIT BREAKER) FOR SUB-
STATION AT STATE LIFE BUILDING #. 9 & 11,

KARACHI

TENDER NO. PEN/RE/EW/KHI/AUG/4911/2022

FINANCIAL BID DOCUMENTS

FINANCIAL BID

REAL ESTATE DIVISION

5th Floor, State Life Building #. 9,

Dr. Ziauddin Ahmed Road,

Karachi

BILL OF QUANTITIES

TENDER FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF 11 KV VCB (VACUUM CIRCUIT BREAKER) PANELS FOR SUB-STATION AT STATE LIFE BUILDING #. 9 & 11, KARACHI

TENDER NO. PEN/RE/EW/KHI/AUG/4911/2022

Sr. #.	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
01.	Supply and providing of 11 kV VCB incoming MV Panel 630 Ampere 20 KA rating for protection and metering with powder paint and MS Steel Sheet 14 SWG, busbar components circuit breaker wiring & ready to install/floor mounted complete in all respect as per KE specification and assembled in OEM factory and comprising with Trolley for Circuit Breaker (02 Nos.) One for each building. (One Panel for SLB-09 & One Panel for SLB-11)	02	Nos.		
01.	VCB 630 Ampere, 20 KA 50 Hz, 3 Phase Manual, W-coil 0.5A, Insulation level 12/28/95KV	01			
02.	CT's 100/5/5A for protection and metering FICO, Schneider, Siemens .	03			
03.	PT's single pole, 11000/110V FICO, Schneider, Siemens 3 3	03			
04.	O/C, SC & E/F relay with + PT Volts Siemens, Schneider	01			
05.	Combined type electronic KWh, KW and KVARh Meter with MD1	01			
06.	Ammeter with selector switch	01			
07.	Voltmeter with selector switch	01			
08.	Indication lamp + MCBs (Set)	01			
09.	Earthing switch	01			
10.	Anti-condensation Heater + Thermostat	02			
11.	Capacitive Voltage Indicator	01			
12.	Housing + Trolley	01			
13.	Control MCB's (Set)	01			
14.	Any masonry work if required.	01			

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TENDER NO. PEN/RE/EW/KHI/AUG/4911/2022

Sr. #.	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
02.	Supply and providing of 11 kV VCB outgoing MV Panel 630 Ampere 20 KA rating for protection with powder paint and MS Steel Sheet 14 SWG, busbar components circuit breaker wiring & ready to install/floor mounted complete in all respect as per KE specification and assembled in OEM factory and comprising. (Two for SLB-09).	02	Nos.		
01.	VCB 630 Ampere, 20 KA 50 Hz, 3 Phase Manual, W-coil 0.5A, Insulation level 12/28/95KV	01			
02.	CT's 50/5A for protection FICO, Schneider, Siemens .	03			
03.	PT's single pole, <u>11000/110V</u> FICO, Schneider, Siemens	03			
	3 3				
04.	O/C, SC & E/F relay with + PT Volts Siemens, Schneider	01			
05.	Combined type electronic KWh, KW and KVARh Meter with MD1	01			
06.	Ammeter with selector switch	01			
07.	Voltmeter with selector switch	01			
08.	Indication lamp + MCBs (Set)	01			
09.	Earthing switch	01			
10.	Anti-condensation Heater + Thermostat	02			
11.	Capacitive Voltage Indicator	01			
12.	Housing + Trolley	01			
13.	Control MCB's (Set)	01			
14.	Any masonry work if required.	01			

SEAL & SIGNATURE OF ELECTRICAL CONTRACTOR

BILL OF QUANTITIES

TENDER FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF 11 KV VCB (VACUUM CIRCUIT BREAKER) PANELS FOR SUB-STATION AT STATE LIFE BUILDING #. 9 & 11, KARACHI

TENDER NO. PEN/RE/EW/KHI/AUG/4911/2022

Sr. #.	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
03.	Supply and providing of 11 kV VCB outgoing MV Panel 630 Ampere 20 KA rating for protection with powder paint and MS Steel Sheet 14 SWG, busbar components circuit breaker wiring & ready to install/floor mounted complete in all respect as per KE specification and assembled in OEM factory and comprising. (Two for SLB-11).	02	Nos.		
01.	VCB 630 Ampere, 20 KA 50 Hz, 3 Phase Manual, W-coil 0.5A, Insulation level 12/28/95KV	01			
02.	CT's 75/5A for protection FICO, Schneider, Siemens .	03			
03.	PT's single pole, <u>11000/110V</u> FICO, Schneider, Siemens 3 3	03			
04.	O/C, SC & E/F relay with + PT Volts Siemens, Schneider	01			
05.	Combined type electronic KWh, KW and KVARh Meter with MD1	01			
06.	Ammeter with selector switch	01			
07.	Voltmeter with selector switch	01			
08.	Indication lamp + MCBs (Set)	01			
09.	Earthing switch	01			
10.	Anti-condensation Heater + Thermostat	02			
11.	Capacitive Voltage Indicator	01			
12.	Housing + Trolley	01			
13.	Control MCB's (Set)	01			
14.	Any masonry work if required.	01			
04.	Supply, installation Testing & Commissioning of 3 Core 300 sq.mm 15 kV, XLPE insulated copper tape screened steel wire armoured copper conductor cables laid direct in ground or in MV cable trench, installed on surface or on trav/ladder completed in all respect.	90	Mtr.		
05	MV15kV cable termination kits suitable for 3 core, 300 sq. mm, 15 kV cable and installed at:				
	a) MV Switchboard	6	Jobs		
	b) 1000kVA Power distribution Transformer	2	Jobs		
	c) 750kVA Power distribution Transformer	1	Job		
	d) 500kVA Power distribution Transformer	1	Job		

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BILL OF QUANTITIES
TENDER FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF
11 KV VCB (VACUUM CIRCUIT BREAKER) PANELS FOR SUB-STATION AT
STATE LIFE BUILDING #. 9 & 11, KARACHI

TENDER NO. PEN/RE/EW/KHI/AUG/4911/2022

Sr. #.	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
06.	Installation testing & commissioning of above Panel with incoming/outgoing cables, existing earth & with dismantling (any crane work will be included) of existing OCB Panel	01	Job.		
07.	Salvage value of exiting OCB Panel of SLB-09 & SLB-11 (-)	06	Nos.		Rs.
Total Amount (Inclusive of all Taxes)					

Rupees in Word _____

- i. The bidder must attach the datasheet/Technical Catalogue of equipment with the financial bid documents
- ii. Contractor will supply, install, commission & test all material & equipment as per manufacturer's specifications / procedure. The cost quoted by him shall be inclusive of labor, transportation, material, all applicable taxes, profit etc.
- iii. The equipment's of MV Panel shall be from the list of manufacturers attached at Annex- A or their equivalent.
- iv. The contractor has to procure material from authorized partner/distributor with documentary evidence.

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**TENDER FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF
11 KV VCB (VACUUM CIRCUIT BREAKER) PANELS FOR SUB-STATION AT
STATE LIFE BUILDING #. 9 & 11, KARACHI**
TENDER NO. PEN/RE/EW/KHI/AUG/4911/2022

VCB Panel Manufacturer

1. Siemens
2. Schneider

Note: Contractor/bidder can quote for any other brand which meets the specification and can obtain equivalency certificate from manufacturer.

Cable Panel Manufacturer

1. Pakistan Cables
2. Pioneer Cable
3. Universal Cable
4. AGE

Note: Contractor/bidder can quote for any other brand which meets the specification and can obtain equivalency certificate from manufacturer.

Cable Termination Manufacturer

1. Raychem (Germany)
2. 3 M (USA)

Note: Contractor/bidder can quote for any other brand which meets the specification and can obtain equivalency certificate from manufacturer.

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