Date: _____

Dy. General Manager (I/c RE)
Real Estate,
STATE LIFE Building No. 5,
Phase-I, Blue Area,
Islamabad.

Sub: SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF 20 KVA DIESEL GENERATOR SET AT STATE LIFE REEST HOUSE ,KHANSPUR AYUBIA

Dear Sir,

Having gone through the Tender Documents/ Post Qualification Criteria for the subject work, we hereby submit our tender consisting of Specifications & Financial Bid for your consideration please.

Pay Order/ Demand Draft having No._____ drawn on: _____
Bank Dated:_____ consisting of 86000/- Bid Security is placed in Financial Bid Envelope.

Thanking You,

Yours Sincerely,

Signature: _____

Name: _____

Designation: _____

M/s: _____

STATE LIFE

INSURANCE CORPORATION OF PAKISTAN

INSTRUCTIONS TO TENDERERS/ SUPPLIERS OF EQUIPMENT AND MATERIAL - RELEVANT TECHNICAL DATA ON WHICH THE TENDER IS BASED

(To be filled in and signed by the Tenderer)

1.The Tenderer shall fill the name of only one manufacturer for the equipment on which the tender is based. He shall *be* bound to supply the equipment from the same manufacturer.

2.The Tenderer should preferably be the sole/ authorized agent of the equipment and have complete back-up services i.e., spares parts, tools and trained engineers.

3.The Tenderer must fill the following list of equipment/ material and manufacturer's Technical data.

Sr. #.	Equipment / Material for Generator 20 KVA with In Built AMF Panel	Name of Manufacturer	Country of Origin
01.	Diesel Engine		
02.	Alternator		
03.	ATS Panel		
04.	Canopy		
05.	L. T. Cables Pakistan Cable or equivalent		
06.	MCCB Terasaki/ Schneider/ ABB/ Germany/ Japan/ France/ Italy or equivalent		
07.	Conduits/ Accessories (If required)		
08.	Cable Tray, Trucking (if required)		
09.	Earthing		

TENDERER'S SEAL & SIGNATURE

MANUFACTURER'S TECHNICAL DATA

MANUFACTURER'S TECHNICAL DATA

(To be filled - in and signed by the Tenderer)

Sr. #	Data Required	Data Submitted

1. ENGINE: (Perkin / Cummins / Caterpillar OR Equivalent)

1.1. Manufacturer's Name.

1.2. Maximum Engine Rating BHP.

1.3. Continuous Output Rating – BHP

1.4. De - Eating Factor:

1.4.1 For Altitude of 15 Meters above NSL.

1.4.2 For Inlet Air Temperature of Zero Degree Centigrade

1.4.2 Others, if any

1.5. Engine Rating at Site – BHP

1.6. Period of Maximum Engine Rating – Hours

1.7. Operating Speed – RPM

1.8. Bore and Stroke – Inches / mm

1.9. No. of Cylinders

1.10. Arrangement of Cylinders - n line / v

1.11. Engine Capacity - cu. in./ cc

1.12. Compression Ratio

1.13. Coupling

MANUFACTURER'S TECHNICAL DATA

(To be filled - in and signed by the Tenderer)

Sr. #	Data Required	Data Submitted
1.14.	Mounting	
1.15.	Cooling System	
1.16.	Ignition System	
1.17.	Overload Capability	
1.18.	Governor	
1.18.1	Type	
1.18.2	Make	
1.19.	Efficiency (%)	
1.19.1	At 100% rated load	
1.19.2	At 75% rated load	
1.19.3	At 50% rated load	
1.19.4	At 25% rated load	
1.20.	Fuel consumption (Lit./Hr.)	
1.20.1	At 100% rated load	
1.20.2	At 75% rated load	
1.20.3	At 50% rated load	
1.20.4	At 25% rated load	
1.20.5	At 0% rated load	

MANUFACTURER'S TECHNICAL DATA

(To be filled - in and signed by the Tenderer)

Sr. #	Data Required	Data Submitted

2. ALTERNATOR: (Caterpillar/ Newage Stamford/ Leroy Somer/ Meccalte) OR Equivalent.

2.1. Manufacturers Name

2.2. Design Output Rating

2.3. Continuous Output at Site

2.4. Power Consumption in Auxiliaries

2.5. Net Power Available

2.6. Rated Voltage

2.7. Rated Current per Phase

2.8. Power Factor

2.9. Speed

2.10. Frequency

2.11. Insulation Class

2.11.1 Stator

2.11.2 Rotor

2.11.3 Exciter

2.12. Overload Capability

2.13. Harmonic Content - %

2.14. Temperature Rise - Degree Celsius

2.15. Frequency Regulation - %

MANUFACTURER'S TECHNICAL DATA

(To be filled - in and signed by the Tenderer)

Sr. #	Data Required	Data Submitted

2.16. Deviation Factor - %
2.17. Voltage Regulation

2.17.1 Type

2.17.2 Regulator

2.17.3 Regulation - %

2.17.4 Voltage - %

2.17.5 Response Time – Sec

2.18. Efficiency %

2.18.1 At 100% rated load =

2.18.2 At 75% rated load =

2.18.3 At 50% rated load =

2.18.4 At 25% rated load =

2.19. Exciter

2.19.1 Type

2.19.2 Related Voltage – Volts

2.19.3 Full Load Current – Amps

2.20. Radio Frequency interference

2.21. Telephone Influence / Interference

2.22. Charger Capacity

MANUFACTURER'S TECHNICAL DATA

(To be filled - in and signed by the Tenderer)

Sr. #	Data Required	Data Submitted

2.23. Batteries

2.23.1 Type

2.23.2 Rating – AH

3. <u>ACCESSORIES</u>:

(Contractor to state whether or not these accessories are provided)

3.1. Crankcase Heater

3.2. Automatic Water Makeup System

3.3. Dueling for Radiator

3.4. Exhaust System

3.4.1 Residential

3.4.2 Industrial

3.5. Meters *I* Gauges to Indicate

3.5.1 Engine Speed in RPM

3.5.2 Lube Oil Pressure in Bars

3.5.3 Engine Water Temperature in °C

3.5.4 Engine Running Hours in Hrs.

3.5.5 Battery Charging Current in Amps.

3.6. Alarm / Indicating Lamps for:

3.6.1 Engine Over Speed

<u>MANUFACTURER'S TECHNICAL DATA</u>

(To be filled - in and signed by the Tenderer)

Sr. #	Data Required	Data Submitted
3.6.2	Low Lube Oil Pressure	
3.6.3	High Engine Water Temperature	
3.6.4	Over Voltage	
3.6.5	Under Voltage	
3.6.6	Short Circuit / Tripping of Main Circuit Breaker	
3.6.7	Low Fuel Level	
3.6.8	High Fuel Level	
3.6.9	Charger Failure	
3.6.10	Over Cranking	
3.6.11	Charging Alternator Failure	
3.7.	Safety devices for instantaneous shut down due to:	
3.7.1	Engine Over Speed	
3.7.2	Low Lube Oil Pressure	
3.7.3	High Water Temperature Shut Down	
3.7.4	Under voltage	
3.8.	Safety devices for adjustable delayed shut down through shut down timer due to:	
3.8.1	Over Voltage	
3.8.2	Short Circuit / Tripping of Main Circuit Breaker	
3.8.3	Low Fuel Level in Tank	