

# National Power Corporation

## REQUEST FOR QUOTATION (SHOPPING – 52 .1 b)

July 25, 2022

\_\_\_\_\_  
\_\_\_\_\_  
Sir/Madam:

Please provide us with your best quotation for the items as specified in the Terms of Reference (TOR) for PR No. **HO-MSD22-008** Ref. No. SHR220808 - RG 00331 and submit the same at the Bids and Contracts Services Division (BCSD), Ground Floor Diliman Quezon City on or before **9:30 AM of August 08, 2022**.

The following documents must be submitted together with your quotation:

For Platinum Members:

1. Valid and Updated Certificate of PhilGEPS Registration (This should include the attached "Annex A"). In case the Mayor's Permit in the said Annex "A" is expired, a valid/updated Mayor's Permit must also be submitted.

For Red or Blue Members:

1. Valid Mayor's Permit
2. PhilGEPS Registration Number ;

- Other documents to be submitted: \_\_\_\_\_

In case no bid or insufficient number or bids is received on **08 August 2022**, the deadline for submission may be extended, as follows:

First (1<sup>st</sup>) Extension : \_\_\_\_\_  
Second (2<sup>nd</sup>) Extension : \_\_\_\_\_  
Third (3<sup>rd</sup>) Extension : \_\_\_\_\_


**The RFQ/Bid Proposal shall be submitted by the bidder to NPC on the manner of submission based on the ABC as follows:**

### Approved Budget for the Contract (ABC)

- Up to Php100, 000.00 - via fax/e- mail/ bid proposal to procurement officer
- Above Php100,000 up to Php1,000,000 - via Sealed Offer (use drop box @ procurement office)

For further inquiries, please contact the BAC Secretariat, **Mr. Renz Gabriel L. Cruz** at telephone no/s. 8921-3541 loc 5397 / Fax No. 8922-1622 with e-mail address at [renzacruz.napocor@gmail.com](mailto:renzacruz.napocor@gmail.com).

Very truly yours,

  
**RENE B. BARRUELA**  
Chairman, Bids and Awards Committee



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Republic of the Philippines  
NATIONAL POWER CORPORATION

**TERMS OF REFERENCE  
ALTERNATIVE MODE OF PROCUREMENT  
(SHOPPING – 52.1 b)**

1. **Scope of Works:** PRNO.HO-MSD22-008 / REF NO.

**For the Supply and Delivery of: INSULATION RESISTANCE TESTER.**

Item No.	DESCRIPTION	QTY.	ABC (PhP)
1	INSULATION RESISTANCE TESTER 10KV, TEST VOLTAGE: 500V, 1000V, 2500V, 5000V, 10000V	1 SET	Php 600,000.00
TOTAL AMOUNT			<b>PHP 600,000.00</b>

**Notes:**

- **Warranty: Shall be at least one (1) Year**
- **See attached sheet for complete Technical Specification**
- **Indicate the following Terms and Conditions on the Bid Quotation:**
  - **Payment Terms**
  - **Delivery Period**
  - **Price Validity**
  - **Delivery Point**
  - **Warranty**

**APPROVED BUDGET FOR THE CONTRACT: PHP 600,000.00**

**2. Delivery Period**

Delivery Period shall not be later than **Thirty (30) calendar days** upon receipt of the Purchase Order / Notice to Proceed.

**3. Delivery Point**

Items shall be delivered at **NPC MRMD - Brgy. Buli Muntinlupa City.**

**4. Bid Submission**

The Bidder shall submit their bids through their authorized representative or in the manner of submission as prescribed in the RFQ.

**5. Late Bids**

Any Bid submitted after the deadline for submission and receipt of Bids shall not be accepted by NPC.

## 6. Bid Prices

The bid price as indicated in the Quotation Form shall be fixed during the Bidder's performance of the Contract and not subject to variation or price escalation on any account. A Bid submitted with an adjustable price quotation shall be treated as non-responsive.

## 7. Bid Price Validity

Price Validity shall not be less than One Hundred Twenty (120) calendar days from date of bid submission.

## 8. Eligibility Criteria

- a. Bids shall be checked using the PASS / FAIL Criteria for Legal, Technical and Financial components.
- b. From the bids that were rated PASSED, the same shall be ranked and corrected for computational errors to identify the Lowest Calculated Quotation (LCQ).

## 9. Detailed Evaluation and Comparison of Bids

The LCQ shall be subjected to detailed evaluation against the Technical Specifications including arithmetical computations. Documents which are deemed not to comply with the requirements of the tender shall be considered non-complying.

## 10. Post-qualification

Submitted documents of the LCQ shall be subjected to post qualification evaluation.

- PhilGEPS Certification and Mayor's/Business Permit.

The bid that PASSED the Post-Qualification shall be declared as the Lowest Calculated Responsive Quotation (LCRQ).

## 11. Total Contract Price

The Total Contract Price shall be inclusive of all taxes and other related expenses / charges.

## 12. Notice to Supplier

- a. The supplier shall pick-up the Purchase Order (PO)/ Notice to Proceed (NTP) from NPC within two (2) calendar days from receipt of the Notice of Award.
- b. Failure to secure the PO/NTP by the supplier within the said period will mean cancellation of the same and imposition of penalties as prescribed by law.

## 13. PO Effectivity

- a. The PO Shall take effect immediately upon receipt of the PO / NTP by the supplier sent through fax as evidenced by the fax transmission receipt and as confirmed by the supplier's representative.

## 14. Terms of Payment

Terms of Payment shall be thirty (30) calendar days after submission of complete supporting documents.

### **15. Warranty**

Warranty is dependent upon the nature/type of the item which is included in the offer (i.e. Manufacturer's Warranty).

### **16. Liquidated Damages**

Where the supplier refuses or fails to satisfactorily complete the work within the specified contract time, plus any time of extension duly granted and is hereby in default under the contract, the supplier shall pay NPC for liquidated damages, and not by way of penalty, an amount equal to at least one tenth (1/10) of one percent (1%) of the cost of the undelivered/unperformed portion of the items/works for every day of delay. Once the cumulative amount of liquidated damages reaches ten percent (10%) of the amount of the contract, the procuring entity may rescind or terminate the contract, without prejudice to other courses of action and remedies open to it (Section 68 of the Revised IRR of RA 9184).

### **17. Liability of the Supplier**

If after receipt of the Purchase Order, the supplier fails to deliver the goods, appropriate sanctions will be imposed as prescribed under Republic Act (RA) 9184 and its Revised Implementing Rules and Regulations (IRR).

### **18. Disclosure of Relations**

The bidder shall comply with the provisions of Section 47 of RA 9184 and its revised IRR re: disclosure of relations.

### **19. Administrative Sanctions**

Bidder shall likewise be imposed the rules as stated in section 69 (Imposition of administrative penalties) should there be infractions committed.

### **20. Reservation Clause**

NPC reserves the right to accept or reject any bid, to annul the bidding process, and to reject all bids at any time prior to contract award, without thereby incurring any liability to the affected bidder/s.

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**SUPPLIER'S BID QUOTATION  
(SHOPPING 52.1 b)**

To: The BAC Chairman:

I have read and examined the Terms of Reference for Purchase Requisition (PR) No/s. **HO-MSD22-008**. I agree with the conditions of the TOR and offer the following supplies with specific description:

ITEM NO.	DESCRIPTION OF ITEM / S TO BE SUPPLIED (INCLUDE BRAND NAME)	QTY	UNIT PRICE (PhP)	TOTAL PRICE (PhP)
TOTAL BID PRICE				

\_\_\_\_\_  
Name and Signature of Authorized Representative  
Date \_\_\_\_\_

Company Name \_\_\_\_\_

Contact Details \_\_\_\_\_

e-mail address \_\_\_\_\_

*Note: The bidder may use this form or its own company letter head following this format duly signed by the authorized representative when making the offer.*

## **PR# HO-MSD22-008 – INSULATION RESISTANCE TESTER 10KV** ✓

### **APPLICATION:**

The Insulation Resistance (IR) test is a quantitative test, which indicates the effectiveness of a product's electrical insulation. Applications include cables, transformers, motors / generators, circuit breakers and bushings. Common insulation tests are the "spot test", a 1 minute IR test and a 10 minute Polarization Index (PI) test, where PI is the ratio  $R_{10min} / R_{1min}$  and is temperature independent.

### **GENERAL DESCRIPTION:**

- 10 kV IRT with all test modes including a ramp test plus advanced memory functions with recall to screen, RTC for time/date stamp of results and USB cable interface to PC.
- Five preset voltage ranges are provided in insulation test mode, plus a user settable lock voltage range. Preconfigured diagnostic tests include Polarization Index (PI), Dielectric Absorption Ratio (DAR), Dielectric Discharge (DD), Step Voltage (SV) and Ramp Test.
- Test leads are double insulated (t) with clamps rated at 3 kV (t) equivalent to 6 kV single insulation for the medium clip lead set and 5 kV (t), equivalent to 10 kV single insulation for the large clip.

### **GENERAL REQUIREMENT:**

- Measures up to 20 T $\Omega$
- PI, DAR, DD, SV and ramp test
- Improved productivity – operate from line power/mains if battery dead
- Li ion battery - extended capacity, rapid charge
- Advanced memory with time/date stamp
- CATIV 600 V safety rating
- Tough case small and light weight

### **FEATURES:**

- Insulation resistance up to 20 T $\Omega$  @ 10kV, 10 T $\Omega$  @ 5 kV
- IR, Timed IR, DAR, PI, DD, SV and Ramp diagnostic tests
- High current – 3 mA short circuit current
- High noise immunity – 3 mA (5 kV and 10 kV) 6 mA (15 kV) of noise rejection
- Li-ion battery – up to 6 hrs continuous testing @ 5 kV with a 100M load, battery meets IEC 2133
- Safety rating: CAT IV 600 V to 3000 m (5 kV, 10 kV)
- Large LCD with backlight
- Dedicated voltmeter function (30 V to 660 V)
- Advanced memory, on screen recall and real time clock for date /time stamped results
- Download of on-board results via USB interface
- Recorded temperature (measured by independent instruments) can be saved with test result
- Asset management software compatible

## SPECIFICATIONS

- a.c. voltage (auto-ranging) : 90-264 V rms, 47- 63 Hz 100 VA
- Battery charge time 2.5 hours deep discharge / 2 hours normal discharge
- Battery life 11.1 V, 5.2Ah Li-ion batteries, meet IEC 62133:2003,
- Battery life : 4.5 hours (typical) continuous testing at 10 kV with a 100 M $\Omega$  load
- Test voltage : 500 V, 1000 V, 2500 V, 5000 V, 10000 V, User defined test voltage
- User defined test voltage: 100 V to 1 kV in 10 steps, 1 kV to 5 kV in 25 V steps,
- Test voltage accuracy +4%, -0%,  $\pm$ 10 V nominal test voltage at 1 G $\Omega$  load (0°C to 30°C)
- Resistance range : 10 k $\Omega$  to 20 T $\Omega$  @ 10 kV,
- Accuracy (20 C) : 10 kV 5000 V 2500 V 1000 V 500 V, @5% from 1M $\Omega$  to 2 T $\Omega$  1 T $\Omega$  500 G $\Omega$  200 G $\Omega$  100 G $\Omega$  @20% from 1M $\Omega$  to 20 T $\Omega$  10 T $\Omega$  5 T $\Omega$  2 T $\Omega$  1 T $\Omega$
- Guard terminal performance : Guards out parallel leakage resistance down to 250 k $\Omega$  with a maximum additional resistance error of 1% with a 100 M $\Omega$  load
- Display analog: 100 k $\Omega$  to 10 T $\Omega$
- Short circuit / charge current : 3 mA @ 5 kV, 10 kV
- Insulation test alarm: 100 k $\Omega$  to 10 G $\Omega$
- Capacitor charge / discharge : <5 s/ $\mu$ F at 3 mA to 10 kV / <250 ms/ $\mu$ F to discharge from 10 kV to 50 V
- Capacitance range / accuracy : 10 nF to 25  $\mu$ F / +/-10% +/-5 nF
- Current range / accuracy: 0.01 nA to 6 mA / +/-5% +/-0.2 nA at all voltages (20 °C)
- Voltmeter range / accuracy: 30 V to 660 V a.c. or d.c.,45Hz – 65Hz / +/-3%, +/-3V
- Timer range : Up to 99 minutes 59 seconds,15 second minimum setting
- Memory capacity : 5.5 hours logging @ 5 sec intervals
- Test modes : IR, IR(t), DAR, PI, SV, DD, Ramp test
- Interface : USB type B (device)
- Real time output : 1 Hz output readings (V, I, R)

## ACCESSORIES

- Power lead, USB cable, Calibration Certificate
- Lead sets : 10 ft (3 m) lead set x 3, large insulated clips
- Lead sets pouch

## OTHERS:

- One (1) year warranty for main unit and test leads.
- Supplier must conduct product demo upon delivery.

**10 kV INSULATION TESTER**

Technical Specifications			
Nominal test voltage	Range	Accuracy	
		Resistance	Test Voltage
10 V steps 100 V to 1kV, 25 V steps 1 kV to 5 kV			
500 V	1 MΩ - 100 GΩ or higher	±5% rdg or better	( +4%, -0%max) ± 10 V nominal test voltage at 1 GΩ load or better
	1 MΩ - 1 TΩ or higher	±20% rdg or better	
1000 V	1 MΩ - 200 GΩ or higher	±5% rdg or better	
	1 MΩ - 2 TΩ or higher	±20% rdg or better	
2500 V	1 MΩ - 500 GΩ or higher	±5% rdg or better	
	1 MΩ - 5 TΩ or higher	±20% rdg or better	
5000 V	1 MΩ - 1 TΩ or higher	±5% rdg or better	
	1 MΩ - 10 TΩ or higher	±20% rdg or better	
10000 V	1 MΩ - 2 TΩ or higher	±5% rdg or better	
	1 MΩ - 20 TΩ or higher	±20% rdg or better	
AC/DC voltage measurement	up to 600 V or higher	( ±3% ± 3 V ) or better	
Short-circuit current	6 mA or less		
<b>General specifications:</b>			
Power Supply	Rechargeable battery or equivalent		
Operating Temperature	up to 50°C or higher		
Storage Temperature	up to 50°C or higher		
Safety	CAT IV 600 V or better		
<b>Other requirements:</b>			
Accessories	Complete set of test probes and other accessories		
Manuals	User manuals (operation and maintenance)/troubleshooting guides/handbooks		
Calibration	Calibration certificate traceable to international standards		
Training	Local Hands-On Training at end-user site		
Warranty	At least One (1) year		