

**PROCUREMENT PROCEDURE OF CPRI (NON WORKS)**

Revision No. : 05

Issue No. : 02

Dt of Revision : 27.08.2020

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Page No. : 1 of 2

Issued by : P A

Section : Formats

Document : PPM

Topic : Price Bid format for local supplies (Indigenous offer)

FORMAT NO.:CPRI/PUR/ePBID/IND

**Section IV L - Price Bid for local supplies**

CENTRAL POWER RESEARCH INSTITUTE, BHOPAL Web: www.cpri.in, www.tenderwizard.com/CPRI

Tender Enquiry No : STDS/12-01/2022-23/PUR/RTL-NK-26

Description of the Equipment/Goods/Services : Supply,Installation & Commissioning and Training of RF Immunity Test Set-up by using GTEM Cell with Control Unit.

<b>Name and address of the Bidder *</b>				
<b>Quotation Number and Date*</b>				
<b>HSN code (Harmonized system nomenclature) *</b>				
<b>GSTIN No *</b>				
<b>SAC code (Services Accounting Code) *</b>				
<b>Income Tax permanent account number(PAN)*</b>				
<b>Details of EMD submitted*</b>				
Sl.No	Particulars	Qty	Unit Rate in Rupees	Total Amount in Rupees
1	Basic Price (Including mandatory spares, packing and forwarding charges) (The list of mandatory spares shall be provided in the technical bid without mentioning the price) Insurance is under Supplier's Scope	1		0.00
1(a)	<i>GST rate as applicable in percentage only</i>			
	<i>IGST</i>			0.00
	<i>CGST</i>			0.00
	<i>SGST</i>			0.00
	<i>UTGST</i>			0.00
	<i>CESS if any</i>			0.00
2	Transportation Charges (To be Quoted in Lumpsum ,if applicable)			0.00
2(a)	<i>GST rate as applicable in percentage only</i>			
	<i>CGST</i>			0.00
	<i>IGST</i>			0.00
	<i>SGST</i>			0.00
	<i>UTGST</i>			0.00
	<i>CESS if any</i>			0.00
3	Installation and Commissioning Charges (To be Quoted in Lumpsum ,if applicable)			0.00
3(a)	<i>GST rate as applicable in percentage only</i>			
	<i>CGST</i>			0.00
	<i>IGST</i>			0.00
	<i>SGST</i>			0.00
	<i>UTGST</i>			0.00
	<i>CESS if any</i>			0.00
	<b>TOTAL LANDED COST</b>			<b>0.00</b>
	<b>Total Landed Cost in Words</b>			

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 Section : Formats  
 Topic : Price Bid format for local supplies (Indigenous offer)

Issue No. : 02  
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 FORMAT NO.:CPRI/PUR/EPBID/IND

**Section IV L - Price Bid for local supplies**

CENTRAL POWER RESEARCH INSTITUTE, BENGALURU/BHOPAL Web: [www.cpri.in](http://www.cpri.in), [www.tenderwizard.com/CPRI](http://www.tenderwizard.com/CPRI)

4	<b>OPTION-1 :</b> Post warrenty comprehensive AMC including, Labour, Travel, Spare Parts etc. in INR (lumpsum) (This cost is optional hence will not to be considered for cost comparission evaluations.)			
5	<b>OPTION-2 :</b> Optional accessories in INR (lumpsum) List of items with breakup price to be furnished in case CPRI demands for the same.			
6	Guarantee/Warrantee period			
7	After sales and service facility (location of the facility and address to be furnished)			
8	Delivery period			
9	Validity of the offer			
10	Payment terms (as per CPRI payment terms)			
11	Details of enlistment if any under Department of expenditutre , Minsitry Of Finance , GOI.			
12	Name and address of the customer, if any to whome a similar equipment/items has been supplied with their purchase order number and date (as per the APPENDIX I).			
13	Whether a similar equipment could be demonstrated to our representative in case required.			
15	Acceptance for submission of security deposit in the event of placement of order.			

PN:

- 1) The price bid shall be submitted in this format only.
- 2) All blue fields are madatorily to be filled in.
- 3) As a policy of CPRI High Sea Sales bids are not acceptable and shall be rejeced.
- 4) CPRI reserves the right to conduct "predispach inspection" prior to dispatch at the works of the supplier and the expenditure towards PDI shall be borne by CPRI. However information regarding the rediness of the equipment/machinary for the PDI shall be communicated in writing at lease 70 days in advance.
- 5) UNDER TAKING: THE OFFER MADE IS IN STRICT COMPLAINCE WITH THE QUALITY AND O'THER TECHNICAL REQUIREMENT MENTIONED IN SECTION - IV T.

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Section : Formats				Documents : PPM	
Topic : : Price bid format for Non - Local supplies (Import) offers				FORMAT NO.:CPRI/PUR/ePBID/IMP	
<b>Section IV NL - Price Bid format for Non - Local supplies (Import) Offer</b>					
CENTRAL POWER RESEARCH INSTITUTE, BHOPAL Web: www.cpri.in, www.tenderwizard.com/CPRI					
Tender Enquiry No : STDS/12-01/2022-23/PUR/RTL-NK-26					
Description of the Equipment/Goods/Services : Supply,Installation & Commissioning and Training of RF Immunity Test Set-up by using GTEM Cell with Control Unit.					
<b>Name and address of the Bidder</b>					
<b>Quotation Number and Date</b>					
<b>HSN code (Harmonized system nomenclature)</b>					
<b>GSTIN No (if applicable)</b>					
<b>SAC code (Services Accounting Code)</b>					
<b>Income Tax permanent account number(PAN)</b>					
<b>Details of EMD submitted</b>					
Sl.no	Particulars	Qty	Unit Rate in Figures	Currency Type	Amount
1	FOB value of the complete system (Including mandatory spares, packing and forwarding charges) (The list of mandatory spares shall be provided in the technical bid without mentioning the price)	1			0.00
2	Insurance charges upto CPRI(ware house to ware house basis in Lumpsum)				0.00
3	Freight Charges,As applicable(Lumpsum)				
	3a) Air Freight Charges.(Lumpsum)				0.00
	3b) Sea Freight Charges.(Lumpsum)				0.00
4	Total CIP/CIF cost				0.00
	Total CIP/CIF cost in words				
5	Installation and commission charges in INR (Lumpsum)				0.00
5(a)	GST as applicable (GST rate in percentage only)				
	IGST				0.00
	CGST				0.00
	SGST				0.00
	UTGST				0.00
	CESS if any				0.00
	<b>TOTAL COST</b>				<b>0.00</b>
	<b>Total Cost in Words</b>				
PROCUREMENT PROCEDURE OF CPRI (NON WORKS)					
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Section : Formats				Documents : PPM	
Topic : : Price bid format for Non - Local supplies (Import) offers				FORMAT NO.:CPRI/PUR/ePBID/IMP	
<b>Section IV NL - Price Bid format for Non - Local supplies (Import) Offer</b>					
CENTRAL POWER RESEARCH INSTITUTE, BENGALURU/BHOPAL Web: www.cpri.in, www.tenderwizard.com/CPRI					
Sl.no	Particulars	Qty	Unit Rate in Figures	Currency Type	Amount

6	<b>OPTION-1 :</b> Post warranty comprehensive AMC including, Labour, Travel, Spare Parts etc. in INR (lumpsum) (This cost is optional hence will not to be considered for cost comparison evaluations.)				
7	<b>OPTION-2 :</b> Optional accessories in INR (lumpsum) List of items with breakup price to be furnished in case CPRI demands for the same. (This cost is optional hence will not to be considered for cost comparison evaluations.)				
2	<b>Guarantee/Warranty period</b>				
3	<b>After sales and service facility (location of the facility and address to be furnished)</b>				
4	<b>Delivery period</b>				
5	<b>Validity of the offer</b>				
6	<b>Payment terms (as per CPRI payment terms)</b>				
9	<b>Name and address of the customer, if any to whom a similar equipment/items has been supplied with their purchase order number and date (as per the APPENDIX I).</b>				
10	<b>Whether a similar equipment be demonstrated to our representative in case required.</b>				
12	<b>Acceptance for submission of security deposit in the event of placement of order.</b>				
NOTE : CPRI IS EXEMPTED FROM PAYMENT OF CUSTOMS DUTY UNDER NOTIFICATION NO.51/96 DATED 23-071996 AND AMENDED NOTIFICATION NO.24/2007-CUSTOMS DATED 1-3-2007(HOWEVER CONCESSIONAL CUSTOMS DUTY AND ADDITIONAL CUSTOMS DUTY AS APPLICABLE WILL BE CONSIDERED.					
UNDER TAKING: THE OFFER MADE IS IN STRICT COMPLAINE WITH THE QUALITY AND OTHER TECHNICAL REQUIREMENT MENTIONED IN SECTION IV T					

**PROCUREMENT PROCEDURE OF CPRI (NON WORKS)**

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Section : Formats

Topic : Technical Specifications format

Issue No : 2

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Documents : PPM

FORMAT NO.:CPRI/PUR/eTBID/GTP

**Section IV T -Technical Specification**

**CENTRAL POWER RESEARCH INSTITUTE, BHOPAL Web: www.cpri.in, www.tenderwizard.com/CPRI**

Tender Enquiry No : STDS/12-01/2022-23/PUR/RTL-NK-26

Description of the Equipment/Goods/Services : Supply, Installation & Commissioning and Training of RF Immunity Test Set-up by using GTEM Cell with Control Unit.

Note : 1) The technical bid submitted in other than this format is liable to be rejected.

2) All blue fields are mandatorily to be filled in.

<b>Name of the Vendor</b>						
<b>Quotation Number and Date</b>						
Sl.No.	Parameters	CPRI Specification / Requirements	Qty	To be completed by the Bidder		
				Details of guaranteed technical parameters offered by the bidder	Guaranteed Technical Particulars (GTP)	Specify deviations/Remarks if any
1.0	Place of delivery	CPRI ,Nashik				
2.0	Scope	Supply,Installation & Commissioning and Training of RF Immunity Test Set-up by using GTEM Cell with Control Unit.	One			
3.1	Qualification for Tender Participation	Bidder shall have infrastructure (in India) for providing the services for the quoted items, after sales.				
3.2		The bidder shall submit the list of their customers ( with their addresses and contact details (viz. mobile number, telephone number, email)) to whom the similar systems were supplied.				
4.1	Functional requirements:	The quoted system shall be suitable to carry out RF immunity test as per IEC 61000-4-3:2006 + Amend.1:2007 + Amend.2:2010 on static energy meters, prepayment meters and smart energy meters in energised condition, by using GTEM Cell in both fully automated mode (as per user defined sequence through software) and in manual mode.				

4.2		The technical requirements for the quoted GTEM Cell shall be as per IEC:61000-4-20:2010 and it shall be suitable to test the energy meter with the dimensions up to 400mmx300mmx250mm, in all three axes. The septum height at end of GTM shall be 1200mm minimum and at test location it shall be 1000mm.				
5.0	<b>Technical Specifications of RF Immunity Test Set-up by using GTEM Cell with Control Unit:</b>					
5.1		Frequency band shall be from 80MHz to 2.0GHz, carrier modulated with 80% AM at 1kHz sinewave, unmodulated field strength of 30V/m. Frequency band shall be from 2.0GHz to 6.0GHz, carrier modulated with 80% AM at 1kHz sinewave, unmodulated field strength of 10V/m. Frequency band shall be from 80MHz to 2.0GHz, carrier modulated with 80% AM at 1kHz sinewave, unmodulated field strength of 10V/m. Frequency band shall be from 2.0GHz to 6.0GHz, carrier modulated with 80% AM at 1kHz sinewave, unmodulated field strength of 3V/m. The user shall have an provision to choose the test frequency range from 80MHz to 6.0GHz. in both automatic and manual modes.				
5.2		The user shall have an provision to set the desired test field strength from 1V/m to 30V/m as per IEC:61000-4-3.				
5.3		The quoted system shall have provision for varying Amplitude Modulations programming. The bidder shall specify the modulation range in %. The quoted system shall be suitable to set the modulation level of 80%, as per Standard. The modulation frequency shall be 1kHz. Sine wave. The quoted system shall have 1kHz. signal source and a modulator for the above said modulation purpose.				
5.4		The quoted system shall have provision for setting the Dwell time (at each step frequency) from 0.5 second to 60 seconds, settable by the end user.				
5.5		Frequency step size shall be as per IEC:61000-4-3 (1% of the preceeding frequency value).				
5.6		GTEM Cell shall be provided with lockable and rotatable wheels for easy movement of GTEM Cell.				
6.0	<b>Constructional requirements of RF Immunity Test Set-up by using GTEM Cell with Control Unit:</b>					
6.1		The quoted GTEM Cell shall comply with the technical specifications as per IEC:61000-4-20.				

6.2		<p>The quoted control system shall include all required test equipment to carry out RF Immunity Test as per clause no. 6 of IEC:61000-4-3 (by using GTEM cell) namely RF Signal Generator, Power Amplifier, Isotropic Field Sensor (laser type) with Field Monitor, associated equipment to record the power levels, directional coupler, switching unit, control software (for conducting both field uniformity calibration and EUT testing), manual EUT X,Y, Z manipulator etc. The above mentioned items are not limited to clause no. 6 of IEC:61000-4-3. Bidders shall supply all required associated test equipment. The list of quoted instruments shall be furnished with their technical specifications along with their bid document. Control software for all instruments shall be provided. The functional features of software shall be submitted along with the bid document. Power amplifiers shall not get saturated and shall not produce harmonics. It shall comply with requirements of IEC 61000-4-3 clause no 6.</p>				
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6.3		All required test equipment mentioned under 6.2 shall be integrated in to a suitable rack. The rack shall have mounted on rotatable and lockable wheels for easy movement. Pilot lamp shall be provided on the rack, for power-on indication.				
6.4		Tripod stand for mounting isotropic field sensor shall be supplied.				
6.5		Bidder shall supply all other required accessories, cables, interface cables, connectors and control software. The list of the quoted items shall be furnished.				
6.6		The bidder shall ensure that all quoted items are sufficient to meet our requirements to carry out RF Immunity Test as per IEC:61000-4-3 using GTEM Cell (complying to the Standard IEC:61000-4-20) at all frequency points. Field uniformity requirement shall be met at each frequency point.				
6.7		The bidder shall carry out the calibration of field (from 1V/m to 30V/m) for the entire frequency range mentioned in sl. no. 5.1 as per the clause 6.2 of IEC:61000-4-3, after completion of installation and commissioning. Calibration results shall comply with clause 6.2 of IEC:61000-4-3. Uniformity with deviation of frequency and field will not be accepted.				
6.8		Functionally suitable shielded window with door shall be provided to the quoted GTEM Cell to accommodate the EUT with dimensions as mentioned in sl. no. 4.2 of GTP.				
6.9		Six numbers of EMI filters of 240V, 50A, 50Hz. current rating and six numbers of EMI filters of 240V, 10A, 50Hz shall be provided at the bottom of GTEM Cell. The said twelve filters shall be suitable to energise the meters during testing. Technical specifications of the quoted EMI Filters shall be submitted along with the bid document. Indoor lighting fixture suitable for pin type of lamps shall be provided.				
6.10		The quoted system shall have the provision to pick up the optical (LED/LCD) output from the Meter under test, kept inside the GTEM Cell and to connect the other end of the optical fiber cable to the Reference Energy Meter (placed outside the GTEM Cell) used to verify the accuracy of the meter under test.				
6.11		Electrical safety interlock for GTEMCell and test system shall be provided.				
7	PC requirements	Bidder shall specify the configuration / specification of the PC with interface card required for installation of control software . CPRI will provide the PC & interface card.				
8	Accessories	1) Duplex fiber optic cables (two sets) shall be supplied along with suitable connectors to isotropic field probe and field monitor. 2) All required accessories namely connecting cables, instrument interfacing cables, interface card cable, power chord shall be supplied. List of accessories under the scope of supply shall be specified in the bid document.				



9	Training	Two days training to CPRI officials at each CPRI premise shall be provided after successful installation and commissioning				
10	Installation and Commissioning	The supplier shall be responsible to install & Commission the complete test setup of GTEM equipment at CPRI's Nashik. After commissioning, supplier shall demonstrate field uniformity calibration as per clause 6.2 of IEC:61000-4-3.				
11	Manual / data sheet	One set of hard and soft copy of manuals with technical specifications for all quoted items shall be supplied along with the quoted test system. The detailed schematic integration of the test system with wiring diagram shall be supplied.				
12	Calibration certificate	Calibration certificates as per ISO/IEC 17025 from NABL or ILAC / APLAC accredited laboratories for quoted items viz. signal generator, power meter, power sensor, isotropic field probe, power amplifier, directional coupler shall be submitted. The calibration results shall comply with the specifications of the quoted system. one set of calibration certificates shall be in the name of CPRI, Bangalore and second set shall be in the name of CPRI, Noida. The calibration certificates shall not be older than two months from the date of dispatch.				
13	Environmental conditions	Operating conditions: 5 - 40 deg C; 45% to 75% R.H. Storage conditions: 0 -50 deg C; R.H: < 90%				
14	Power Supply requirements	The quoted system shall be workable on 240V, 50Hz. Surge protection shall be provided in the rack.				
15	Warranty	The equipment shall have warranty for one year following the on-site start-up date. and The supplier has to give undertaking regarding post warranty technical support, service and supply of spare parts for successful operation of the equipment's for ten years.				