

M P STATE ELECTRONICS DEVELOPMENT CORPORATION LTD.

(A Govt. of M.P Undertaking)

Tender Document

For

Supply and Installation of Calibrators for Testing and Calibration of
Equipments as per BIS Standard at MPSEDC Calibration
Lab,Bhopal(M.P.)

(Tender No. MPSEDC/ETDC/2015/300 Dated 29/12/2015)

M.P. State Electronics Development Corporation Ltd.
47-A, Arera Hills, Bhopal-462011 (M.P.)
Ph.0755-2518300, 2518754
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INVITATION FOR BIDS

Chief General Manager, MPSEDC Ltd., Bhopal invites sealed bids, from bidders for Supply and Installation of Equipments for Testing and Calibration of Equipments as per BIS Standard at MPSEDC Calibration Lab, Bhopal (M.P.). Interested bidders may obtain further information from www.mpeproc.gov.in or the office of MPSEDC Ltd.; Bhopal. Bids are invited for the work mentioned hereunder:

Sl. No.	Items	Description
1	Scope of Work:	Supply and Installation of ELECTRICAL SAFETY TESTER, IMPULSE GENERATOR, TOUCH CURRENT TESTER, & PINK NOISE GENERATOR for Testing and Calibration of Equipments as per BIS Standard at MPSEDC Calibration Lab, Bhopal (M.P.).
2	Cost of tender document:	Rs 1500.00 (non-refundable) online.
3	Processing Fee:	Rs 250.00 plus Service Tax.
4	Download of tender documents:	Date: 30 th December 2015 to 20 th January 2016
5	Date of Pre-Bid Conference:	7 th January 2016
6	Venue of Pre-Bid Conference:	Conference Room, 2nd Floor, State IT Centre, 47 A Arera Hills, Bhopal, Madhya Pradesh.
7	Email address to send the Pre-bid queries	kcnandan@mpsedc.com
8	Last date of submission of Bid:	20/01/2016 up to 3.00 PM.
9	Date of opening of technical bid:	20/01/2016 at 4.00 PM.
10	EMD:	Rs 50000.00 to be submitted Online.
11	Address for communication:	MPSEDC LTD., State IT Centre, 47-A, Arera Hills, BHOPAL (M.P.)-462011.

Note: Tender document can be viewed/ downloaded from the website www.mpeproc.gov.in, www.mpsedc.com, <http://mapit.gov.in/> and <http://dit.mp.gov.in/>. Tenderer has to submit the document fee, processing fee and EMD amount Online.

***All further notifications/amendments shall be posted on www.mpeproc.gov.in only.**

Letter for Submission of Tender

To,

Dated -----, 2015.

**Chief General Manager
MPSEDC Ltd.,
State IT Centre
47-A, Arera Hills
Bhopal (M P).**

Ref: Supply and Installation of Calibrators for Testing and Calibration of Equipments as per BIS Standard at MPSEDC Calibration Lab,Bhopal(M.P.) against Tender No MPSEDC/ETDC/2015/..... dated due for opening on

Dear Sir,

Having examined the tender document relating to the Supply and Installation of Calibrators for Testing and Calibration of Equipments as per BIS Standard as detailed in your Tender, Conditions and scope of supply, Specifications etc., and having understood the provisions and requirements relating to the supply and all other factors governing the tender, We hereby submit our offer for the supply of the proposed items in accordance with terms and conditions and confirm our acceptance to execute the order within the time period specified in the tender document, at the rates quoted by us in the accompanying Technical & commercial Bid.

If, after the tender document is accepted, we fail to complete the supply of the items as per the order, we agree that, M/s. MPSEDC LTD. Bhopal shall have full authority to forfeit the earnest money and cancel our order with no obligation on their part.

We confirm having deposited earnest money of Rs..... (Rupees only) online, and general information required is as per annexure attached.

We further confirm that –

- i. We have sufficient qualified manpower and necessary materials and after sales support to execute the order efficiently in the specified time schedule.
- ii. The quoted rates shall be valid till the completion of the order but not less than 90 days.
- iii. We further confirm that all chapters of the tender documents have been read, understood and signed and there is no deviation/discrepancy.

Signature of the Tenderer
With stamp and date

GENERAL INFORMATION AND EMD DETAILS

1	EMD Details Date of Submission of EMD online: Amount in Rs :	
2	Name and Address of the Tenderer:	
3	Contacts:	
4	Telephones:	
5	Fax:	
6	E-mail:	
7	Mobile No:	
8	Category of the Tenderer (Whether company, partnership firm or Proprietary concern)	
9	Name of Chief Executive Officer and Telephone No.	
10	Year of Establishment	
11	Sales Tax/Commercial Tax/ CST nos.	
12	Service Tax No.	
13	Income Tax PAN/GIR No.	
14	Name and Address of the Banker	
15	List of major Clients and the size of orders executed	

Note: Separate sheets may be attached wherever necessary.

Signature of the Tenderer
With stamp and date

TERMS AND CONDITIONS

Contents of Bidding Documents for the Supply and Installation of Calibrators for Testing and Calibration of Equipments as per BIS Standard as per specifications given in B O M, the bidding procedures and the terms of contract are prescribed here in under:

01. Eligibility Criteria:

The following are the conditions, which are to be necessarily fulfilled, to be eligible for evaluation of the proposed solution. Only those interested bidders who satisfy the following eligibility criteria should respond to this Tender:

- The products offered must be of high quality and manufactured by nationally / internationally reputed manufacturer having a minimum turnover of Rs. 50 Crores (Attach copy of the audited balance sheet).
- The Bidder should have proven track record in supplying the specified item(s) either as Manufacturer or Authorized Representative/Agent/Dealer in India, on behalf of foreign Manufacturer/Principal, and shall submit a). Copies of Purchase Orders successfully executed, and b). List of Clients in India.
- In case of the representative/ dealer, the representative/dealer must attach authorization letter (in the enclosed format in the tender form from respective manufacturer for all the products quoted by him.
- Bids containing offer for equipment(s) of foreign origin, should come from the authorized dealers / Suppliers / representatives in India, when the foreign manufacturer is having no direct office in India, provided that in such cases, the quotation should be ink-signed and in the letterhead of the original foreign manufacturer, submitted/forwarded by the dealer/ agent/ representative(s), and accompanied by the document of authorization in their favour from the manufacturer.
- Bids containing offer for equipment(s) of indigenous origin, may come either, from the manufacturer or authorized agent / dealer in India. When the bidder is not the manufacturer itself, he/she must submit the copy of authorization letter from the manufacturer.
- Whenever a bidder submits bid on behalf of a foreign manufacturer, it shall be binding on that manufacturer as well.
Provided the local Indian Bidders should have due registration in the name of their firm's with the concerned govt. authorities for Sales Tax/ VAT/ Service Tax/ GST/Income Tax /TIN etc., and also furnish proofs of such documents along with proofs of clearing Income Tax/ Sales Tax/ Excise Duty/ Other taxes and duties due to the Government. The Bidders must have valid PAN /TAN Registration No. in their firm's name, with the Income Tax authorities.

02. Amendment in Bidding Document by the Competent Authority.

At any time prior to the deadline for the submission of bids, the competent authority may, for any reason, whether on its own or in response to a clarification requested for by a prospective bidder, modify the bidding document by way of amendment(s).

All subsequent amendment, addendums if any in the bidding documents will be notified on above mentioned websites only. The amendment(s) so made shall be binding.

In order to allow reasonable time to the prospective bidders for taking into account such amendment(s), in the preparation of their bids, the competent authority, at its discretion, may extend the deadline for the submission of bids.

03. Bid Price

The bidders shall indicate on the prescribed Price Schedule, including item-wise and final Bid Price of the items listed.

Prices quoted by the Bidder should be in Indian Rupees F.O.R. Bhopal basis and shall be fixed during the Bidder's performance of the contract and shall not be subject to variation on any account.

A bid submitted with an adjustable price will be treated as non-responsive and rejected.

04. The EMD may be forfeited:

If a Bidder withdraws its bid during the period of bid validity specified by the bidder on the bid Form: or In case of a successful Bidder, if the Bidder fails:

- (i) To accept the order
- (ii) To furnish performance security
- (ii) If the supplier, after accepting the purchase order fails to deliver the material/services as per the order.

Any alterations, erasures or overwriting shall be valid only if the person or persons signing the bid initial them.

05. Technical requirements

The technical specifications as per annexure are the minimum configuration required. Higher specifications may be considered but no price weight-age for higher specifications shall be considered.

06. Calibration Certificate.

The equipments should be accompanied with calibration certificate with data from NABL accredited lab.

07. Warranty support.

System should invariably be warranted for a period of minimum One year from the date of successful installation and commissioning.

08. Inspection.

Purchaser reserves the right to inspect the manufacturer/supplier works prior to supply.

SUBMISSION OF BIDS

09. Marking of Bids

The bidders shall submit EMD, technical bid (containing the technical specifications offered, literature leaflets, signed tender document etc) and commercial bid separately as per online submission process.

010. Payment:

Payment: Payment shall be released by MPSEDC as per the following terms:

Payment 100% of the value of goods supplied shall be released against supply and successful installation of Equipment & submission of performance security. The bills for the purpose of payment shall be submitted to MPSEDC, Bhopal. No interest shall be payable on delayed payments due to what so ever reason.

011. Deadline for Submission of Bids

Bids must be submitted online but not later than the time and date specified in the invitation of Bids. In the event of the specified date for the submission of bids being declared a holiday for the office of the competent authority, the bids will be received up to the appointed time on the next working day.

012. Late Bid

Any bid received after the deadline for submission of bids prescribed by the competent authority, will not be accepted.

BID OPENING AND EVALUATION OF BIDS

013. Opening of Bids

Since it is a Two-bid system, Technical bid will be opened first by the Committee constituted for this purpose. If the technical bid specifications offered, EMD and clarification asked (if any) are found in order, the Committee will open commercial bid only for the eligible bidders.

In case, the commercial bid is not opened on the same or next day of opening of technical bid the Committee may decide to open the commercial bid on subsequent dates. In such case the date, time and place of opening of commercial bid will be intimated to the bidders or their representatives.

014. Preliminary Examination

Before starting evaluation, the bids will be examined to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order. In case of computational error the basic price will prevail.

If bid is determined as not substantially responsive, the competent authority will reject it and only the substantially responsive commercial bids will be considered.

The process of evaluation of bid is as follows:

- (i) The Committee, appointed by the MPSEDC LTD., will first verify that the Bid Security is in order and as per requirement of the bid. The Committee will examine the bid on Eligibility Criteria as specified. The scrutiny of technical proposals will be based on the Evaluation Criteria determined.

- (ii) The commercial bid will be opened only for the proposals, which are found eligible and technically acceptable by the Committee and approved. On the day specified for the opening of bid, the Committee, appointed by the MPSEDC LTD., will open the commercial bids of eligible bidders and scrutinize the same minutely.
- (iii) After scrutiny, the MPSEDC LTD. after having examined the proposal may accept the same or accept the bid price of any other bidder found suitable or reject all or any proposal. The decision of the MPSEDC LTD. in this regard shall be final and binding.
- (iv) The quantity mentioned in the tender document is as per our estimate. However, the department reserves the right to place order for the less/higher quantity or drop the items or segregated delivery schedule depending on the actual requirement.

015. Performance Security.

The successful bidder shall be required to submit performance guarantee equivalent to 10% of the order value for the satisfactory performance/completion of the complete order (Including warranty period), in the form of bank guarantee/Demand Draft with MPSEDC LTD.

016. Contacting the Competent Authority.

Any effort on part of a Bidder to influence the Competent Authority or members of Technical/Monitoring committee, in its decisions on bid evaluation; bid comparison or contact award may result in rejection of the bidder's bid.

017. General

- (i) Supply will be complete only when the full quantity is supplied and installed as per tender condition and accepted by us.
- (ii) Bid form shall be duly filled in, signed and complete in all respects.
- (iii) The price should be in Indian Rupees inclusive of all taxes and local levies if any on FOR destination basis.
- (iv) The rates should be free from all escalation. However, all Tax and duty benefits if applicable should be passed on to us.
- (v) Delivery period should not exceed 90 days from the date of order under any circumstances. The MPSEDC LTD. reserves the right to extend the delivery period.
- (vi) System should invariably be warranted for a period of minimum one year from the date of successful installation and commissioning.
- (vii) The manufacturer authorization should be submitted by bidder separately as per the attached form.

Bids not submitted online will be rejected.

Conditional bids are liable to be rejected.

MPSEDC LTD. does not bind themselves to accept the lowest or any other tender and reserve the right to accept or reject any or all the tender in full or in part without assigning any reason.

MANUFACTURERS AUTHORIZATION FORM

Ref No:

Dated:.....

To,

**Chief General Manager
M.P. State Electronics Dev. Corp. Ltd.
47-A, Arera Hills, BHOPAL-462011**

Tender No:..... Due Date:

Dear Sir,

We.....who are established and reputed Manufacturers of
.....having factories
at.....

.....(Address of the factory)

do hereby authorize M/s.....(Name & Address of agent)

to submit a bid, and subsequently negotiate and sign the contract with you against the above tender.

We hereby extend our full guarantee, warranty and support and also in meeting warranty obligations by providing necessary spares in time for the goods & services offered by the above firm against this tender, as per standard as well as MPSEDC warranty terms.

Yours faithfully

(Name)

(Name of the manufacturer)

Note: This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having a power of attorney to bind the manufacturer. The bidder in its bid should include it.

TECHNICAL BID

Supply and Installation of Calibrators for Testing and Calibration of Equipments
as per BIS Standard at MPSEDC Calibration Lab, Bhopal (M.P.)
(Tender No. MPSEDC/ETDC/2015/300 Dated 29/12/2015)

- 1. ELECTRICAL SAFETY TESTER** (TOUCH CURRENT / LEAKAGE CURRENT / GROUND BOND TEST/ INSULATION RESISTANCE TEST/ AC/DC FLASH / HIPOT TEST/) FOR TESTS CONFIRMING TO IEC 60950-1:2001, IEC 60950-1:2005, IEC 60065:2005 SAFETY REQUIREMENTS.

SI.No.	PARAMETERS	SPECIFICATION & MAKE/MODEL QUOTED	COMPLIANCE YES/NO.
A	EARTH BOND TEST		
1	Test Voltage Nominal	6V AC	
2	Frequency	50 Hz	
3	Range	0-1500mΩ	
4	Accuracy	±2% ±5 Counts	
5	Display Resolution	1 mΩ	
6	Compliance Test Ranges	Current: 5A – 40 A	
7		Load Resistance: 100 mΩ - 1000 mΩ	
8		Time: 60s - Continuous	
B	INSULATION TESTER		
1	DC Test Voltage	250V, 500V, or 1000V Selectable,	
2	Range	0.01MΩ-500MΩ	
3	Range	0.01MΩ-500MΩ	
4	Accuracy	± 5% ± 5 Counts	
C	AC FLASH/HIPOT TEST		
1	Programmable Voltage Range	0.10kV-5.00kV(10V/Step Resolution)	
2	Frequency	50 or 60 Hz	
3	Voltage Range	0.10kV-5.00kV	
4	Accuracy	±1% ± 5 Counts	
5	Voltage Resolution	0.01kV	
6	Current Range	0.01mA-20.00mA	
7	Accuracy	±1% ± 5 Counts	
8	Current Display Resolution	0.01mA	

D	DC FLASH/HIPOT TEST		
1	Programmable Voltage Range	0.10kV-6.00Kv (10V/Step Resolution)	
2	Voltage Display Range	0.01mA-10.00mA	
3	Accuracy	±1% ± 5	
4	Voltage Display, Resolution	0.01kV	

5	Current Display Range	0.01mA-10.00mA	
6	Accuracy	±1% ± 5 Counts	
7	Current Display Resolution	0.01mA	
8	Selectable Range of Pass/Fail Levels	0.01mA-10.00mA	
9	Maximum Current Output	10.00mA	
10	Optional Arc Detection	9 Levels	
E	LEAKAGE CURRENT TEST		
1	Display Range	0.10mA-20.00 mA	
2	Accuracy	± 1% ±5 Counts	
3	Display Resolution	0.01mA	
4	Selectable Range of Pass/Fail Levels	0.01mA-20mA	
a	Connecting Cables & Accessories		
b	Software		
c	Users Manual		
d	Calibration Certificate	NABL Certificate with Data	
e	Warranty	One Year Minimum	

2. IMPULSE/SURGE GENERATOR FOR TEST CONFIRMING TO IEC 60950-1:2001, IEC 60950-1:2005,IEC 60065:2005 SAFETY REQUIREMENTS

IMPULSE/ SURGE GENERATOR 1.2/50 μ s and 10/700 μ s Voltage up to 12 KV.

Sl.No.	PARAMETER	SPECIFICATION & MAKE/MODEL QUOTED	COMPLIANCE YES/NO
1	Supply Voltage	230V, 50Hz	
2	Output voltage	Surge 400V-12kV adjustable	
3	Surge Rate	60Pulse/ minute	
4	V-meter	0-15 kV DC, 4 1/2 digit 2,5 % FS	
5	HV oscilloscope probe	max. 1500 V, 300 Mhz bandwidth: ratio 100:1	
6	Capacitor	1 μ F	
7	Virtual impedance	12 ohms	
8	Minimum charging time	3 seconds (as per standard request)	
9	Waveform	1.2/50 μ s and 10/700 μ s	
10	BNC output	10:1	
11	Accessories/Softwares		
12	Users Manual		
13	Calibration Certificate	NABL certificate with Data	
14	Warranty	One Year Minimum	

3. TOUCH CURRENT TESTER FOR TESTS AS PER IEC 60065:2005,IEC 60950-1:2001,IEC 60950-1:2005 SAFETY REQUIREMENTS.

SI.No.	PARAMETERS	SPECIFICATION & MAKE/MODEL QUOTED	COMPLIANCE YES/NO
1	Input	230 V AC± 15%	
2	Frequency	50Hz ± 5%	
3	Fuse	2A slow-blow 250V AC	
4	Line Condition		
5	Power switch	Reverse Polarity switch for normal conditions(On/Off/Auto Setting)	
6	Neutral switch	Neutral switch On/Off selection for single fault condition	
7	Ground switch	Ground switch on/Off selection for class I single fault condition	
8	Probe setting		
9	Surface to surface(PH-PL)		
10	Surface to line(PH-L)		
11	Ground to line (G-L)		
12	Ground to Neutral(G-N)		
13	Auto Function(G-N&G-L)		
	SETTING		
1	Touch Current High Limit(RMS)	Range: 0.0µA-999.9 µA/1000µA-9999 µA/10.00mA-20.00mA Resolution: 0.1µA/1 µA/0.01mA	
2	Touch Current Low Limit(RMS)	Range: 0.0-999.9 µA Resolution:0.1 µA	
3	Touch Current High Limit(Peak)	Range: 0.0µA-999.9µA/1000µA-9999µA/10.00mA- 30.00mA Resolution: 0.1µA/1 µA/0.01mA	
4	Touch Current Low Limit(Peak)	Range: 0.0-999.9 µA	
	DISPLAY		
1	Touch Current Display(RMS)	Range 1: 0.0µA-999.9 µA, Frequency DC-1MHz. Resolution:0.1 µA	
		Accuracy: DC: ±(2% of reading + 3 Counts) 15MHz≤f<100KHz:± (2% of reading + 3 Counts) 100KHz≤f≤1MHz: 5% of reading,10.0µA-999.9 µA	
		Range 2: 1000µA-7999µA,Frequency DC-1MHz. Resolution:0.1 µA	
		Accuracy: DC: ±(2% of reading + 3 Counts) 15MHz≤f<100KHz:± (2% of reading + 3 Counts) 100KHz≤f≤1MHz:	

		5% of reading,10.µA-7999 µA	
		Range 3: 8.00mA-20.00mA,Frequency DC-1MHz.	
		Resolution:0.01mA	
		Accuracy: DC: ±(2% of reading + 2 Counts) 15MHz≤f<100KHz:±5% of reading,0.01mA-20.00mA	
2	Touch Current Display(Peak)	Range 1: 0.0µA~999.9 µA, Frequency DC-1MHz.	
		Resolution:0.1 µA	
		Accuracy: DC: ±(2% of reading +2µA) 15MHz≤f<1MHz:± (10% of reading + 2µA),10.0 µA-999.9 µA	
		Range 2: 1000µA~7999µA,Frequency DC-1MHz.	
		Resolution:0.1 µA	
		Accuracy: DC: ±(2% of reading + 2 counts) 15MHz≤f<1MHz:± (10% of reading + 2counts),10µA-7999 µA	
		Range 3: 8.00mA~30.00mA,Frequency DC-100KHz.	
		Resolution:0.01mA	
		Accuracy: DC: ±(2% of reading + 2 Counts) 15MHz≤f<100KHz:± (10% of reading+ 2 counts), 0.01mA-30.00mA.	
a	Accessories		
b	Calibration Certificate: NABL certificate with Data.		
c	Users Manual		
d	Warranty One Year(Minimum)		

4. PINK NOISE GENERATOR FOR TESTS CONFIRMING TO IEC 60065:2005, IEC 60950-1:2001, IEC 60950-1:2005 SAFETY REQUIREMENTS.

Sl.No.	PARAMETER		SPECIFICATION & MAKE/MODEL	COMPLIANCE YES/NO
1	Output		Pink Noise +Sine Wave 1000Hz	
2	Output Channels		Two Nos.	
3	Phase shifting		0° or 90°	
4	Adjustments		Fine adjustments	
5	Output Connectors		RCA and 4mm Banana type output connectors	
6	Output signals		According to IEC 60065 Annex-C.	
7	Amplitudes of sine wave and pink noise			
	Output Voltage	Sine wave 1KHz	Filtered pink noise	
	Low	0-100mV/1Kohm	0-35mV rms/1Kohm	
	Medium	0-1V/1Kohm	0-350mV rms/1Kohm	
	High	0-5V/1Kohm	0-1.7 V rms/1Kohm	
8	Connecting Cables			
9	Accessories			
10	NABL Calibration Certificate with Data.			
11	Users Manual			
12	Warranty One Year(Minimum)			

The specifications given above are indicative and not intended to be manufacturer specific. Any suggestions for change in specifications can be given as queries before pre bid meeting. The bidder may offer deviations if any. The deviations may or may not be accepted at the discretion of MPSEDC.

Signature of the Tenderer

With stamp and date

PRICE BID

Supply and Installation of Calibrators for Testing and Calibration of
Equipments as per BIS Standard at MPSEDC Calibration
Lab,Bhopal(M.P.)
(Tender No. MPSEDC/ETDC/2015/300 Dated 29/12/2015)

Sl.No.	Description,Make & Model	Qty	Rate ₹.	Tax & Duties ₹.	Amount ₹.
1	ELECTRICAL SAFETY TESTER	01			
2	IMPULSE GENERATOR	01			
3	TOUCH CURRENT TESTER	01			
4	PINK NOISE GENERATOR	01			

We agree to supply the above goods in accordance with the technical specifications for a total contract price of within the period specified in the invitation of NIT.

Signature of the Tenderer

With stamp and date

Supply and Installation of calibrators for testing and calibration of equipments as per BIS standard for MPSEDC Calibration Lab Bhopal(M.P.)

(Tender No. MPSEDC/ETDC/2015/300 Dated 29/12/2015)

CHECKLIST OF SUBMISSION OF DOCUMENTS

BIDDER NAME:

S. No.	Particulars	Document Submission Status	Page No in Tender offer submitted
a	Tender document with sign & seal of bidder(scanned copy)		
b	Document Of Incorporation of Bidder		
c	Tin No of Bidder		
d	Service Tax No of Bidder		
e	PAN No of Bidder		
f	Balance Sheet & Profit & Loss A/c of Last 3 years of Bidder		
g	Copy of the audited balance sheet of Manufacturer		
h	Certificate - ISO 9001-14001, ISO 9001-2008		
i	List of clients of Bidder (including size of orders executed)		
j	Manufacturer's Authorization of items quoted		
k	Technical Compliance on the manufacturers letter head with make & model		
l	Satisfactory completion Certificate along with the work order for the Supply, Installation of similar equipments		