# CHHATTISGARH STATE POWER TRANSMISSION CO. LTD.

OFFICE OF THE EXECUTIVE DIRECTOR (S&P) C.S.P.TRANS.C.L., DANGANIA, RAIPUR: 492013 (C.G.)

Phone No. 0771-2574236, 2574240

Ltd. TENDER No. 111/641

(e-Bidding)

SUPPLY OF 10 KV INSULATION DIGITAL TESTER

RFx No. 8100022547

LAST DATE & TIME OF SUBMISSION OF TENDER 24.08.2021 (TIME 15:00 HRS.)

**DUE DATE OF OPENING OF TENDER 24.08.2021 (TIME 15:30 HRS.)** 

PRICE Rs. 560/- (Inclusive of 12% GST) if Purchase from O/o C.E. (S&P) & Rs. 590/- (Inclusive of 18% GST) if downloaded

For website

## CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED

#### (A Government of Chhattisgarh Undertaking)

#### OFFICE OF EXECUTIVE DIRECTOR (S&P)

Address: 3<sup>rd</sup> Floor, LD Building, Dangania-Raipur (CG)-492013

No. 02-16/SE(I)/Ltd TR No. 111/641

Website:www.cspc.co.in

Raipur, dtd. 20.07.2021

Tele.No.0771-2574236

#### e-PROCUREMENT TENDER NOTICE

Sealed tenders are invited from Manufacturer or their Authorized Dealer for supplying of following materials:-

S.N	Tender No.	Particulars	Qty.	Cost of tender doc. (Rs.)	EMD	Due date
0.			in Nos.		in Rs.	
1	02-16/SE(I)/ Ltd. TR No.111 RFx No. 8100022547	10 KV Digital Insulation Tester		i) Rs. 560/- (Incl. 12% GST)Purchase from O/o CE (S&P) ii) Rs. 590/- (Incl. 18% GST) if	8000/-	24.08.2021
				downloaded from website)		

In case any of the above dates is declared as holiday then the particular date will automatically get shifted to next working day.

- i) The quantities mentioned above are tentative & may vary according to final requirement.
- **ii)** Any notice for extension of due date of tender opening shall not be published in newspapers. It will be displayed only on official website of the company.
- iii) The tender will be processed through e-bidding module of SAP-SRM. Bidders are advised to visit our website www.cspc.co.in/csptcl for viewing detailed instructions regarding submission of offer through SAP-SRM.

#### **TERMS AND CONDITIONS:-**

- i) The tender documents can be obtained from the office of the E.D.. (S&P), CSPTCL, Raipur in person on payment of cost of tender document in the form of MICR D.D. only made out in the name of Manager, RAO (HQ), CSPTCL, Raipur accompanied with firm's application on its letter head on any working day one day before the due date. If tender document is required by post, Rs.250/- is to be paid by D.D. along with the cost of documents. If more than one tender document is required, separate DDs should be furnished for each tender. CSPTCL shall not be responsible for any postal delay regarding receipt/non-receipt of tender documents.
- ii) The tender document will be made available on CSPTCL web site <a href="www.cspc.co.in">www.cspc.co.in</a>. The bidder participating in the tender can down load the document from web site. <a href="In such case">In such case</a>, the cost of tender document in the form as detailed above be submitted along with the tender in EMD envelop. In absence of same, the tender shall not be opened.
  - The bidders who download the documents are requested to remain in contact with this office for any development in the tender.
- iii) Tender documents and the detailed specification could be issued on any working day up to the last date of sale of tender document. The duly filled tenders should be dropped in the tender box of the respective tender up to 15:00 hrs. on the due date. In case of tenders sent through post/ courier, it will be responsibility of the bidder to drop/get dropped the tender in the respective tender box. No receipt of the tender shall be issued in any case. The T.C. bid shall be opened at 15.30 Hrs. on above date.
- iv) After publication of NIT & before the date of opening of TC bid, corrigendum/ other information (if any) shall be displayed on our official web only. The bidders are requested to remain in contact with this office or visit our web-site for any development/ clarification/ amendment issued subsequently.
- v) CSPTCL reserves the right to accept or reject any or all the offers, in part or full without assigning any reason whatsoever.

Website <a href="www.cspc.co.in">www.cspc.co.in</a>
(Go through CSPTCL-Tender notice)

Executive Director (S&P) CSPTCL, Raipur

## Special Instructions to bidders for submission of bid through SAP- SRM module (e-bidding)

The tender No. No. 02-16/SE(I)/Ltd TR No111/641 Raipur, dtd. 20.07.2021 is to be processed through e-bidding. The bid is to be submitted online as well as offline (hard copy). Details of NIT & Tender Documents are available on our website—http://www.cspc.co.in & <a href="http://ebidding.cspcl.co">http://ebidding.cspcl.co</a>. in:50700/ irj/portal. The bidder may download the same from the above site. In e-bidding portal, tender documents will be displayed in online tender display at Technical RFx section.

Last date & time of submission of bid in hard copy and also in softcopy is 24.08.2021 upto 3.00 pm and due date & time of opening of the tender is 24.08.2021 at 3.30 pm.

#### **Important Instructions:-**

- 1. Please note that this tender shall be processed online as well as offline. The bidder has to submit all the documents in hard copy as per tender specifications in three envelopes. Besides above, scanned copy of following documents are to be uploaded in e-bidding portal:-
  - (a) The scanned copy of DD for tender fee.
  - (b) The scanned copy of DD for EMD/ EMD exemption.

It may please be noted that only above mentioned documents are to be uploaded in e-bidding portal and no other document is required to be submitted in e-bidding portal. The bidder shall give reply to following questions regarding above documents in e-bidding portal:-

- (i) Whether scanned copy of tender fee DD uploaded. Yes/No
- (ii) Whether scanned copy of DD of EMD /EMD Exemption uploaded. Yes/No
- 3. It is not required to upload/attach scanned copy of price bid in Soft/Hard copy. Only the rates are to be filled in the item tab in e-cid in SAP SRM System (online e0tender). Rates should be quoted online & in specified fields only. Once the rates are filled, the bidders may change their rates up to the due date and time of submission of tender. After due date and time, no change on any ground whatsoever will be accepted.
- 2. After scrutiny of techno-commercial bid, the price bid will be opened in e-bidding system only of eligible bidders for which suitable intimation will be given to the bidders offline & through email. C.E.(S&P), CSPTCL Tender No. 63/1081 for Procurement of 10 KV Digital Insulation Tester.
- 3. Please note that e-mail is always system generated, hence bidders are advised to regularly check their inbox/junk mail box.
- 4. CSPTCL shall not assume any responsibility for non-supporting of system, internet, line & associated hardware & software for bidding their tender. No extension in time shall be granted on such grounds. The bidder should submit their bid well before submission dead line to avoid any system related problem. It is strongly recommended not to wait for submission of bid in last minutes as internet/technical problem may disrupt their works.
- 5. Reference time for submission dead line shall be the time displayed in the portal and shall be treated as final.
- 6. After end of submission dead line, no alteration in the tender will be allowed by the system. However, in case of extension of due date of opening of tender, the bidders will be allowed to submit revised bid in the system.
- 7. CSPTCL will not accept incomplete bid.

- 8. The bidder must have a valid Digital Signature & SAP SRM User ID. User ID & Password from CSPTCL and Digital Signing Certificate and Digital Encryption Certificate from any recognized digital signature issuing authority are required for participation in any Tender. The bidder shall intimate in advance regarding details of digital signature issuing authority for ensuring the reliability of the same. For User ID and Password for participating in the tender, the bidder shall register on line through e-bidding portal.
- 10.The e-bidding vendor user manual displayed on website-http://ebidding.cspcl.co.in:50700/irj/portal for the help of the bidders. For any further queries the bidder may contact at Helpline no. 0771-2576672/73 (EITC, CSPDCL, Raipur)
- 11. The training for bidders will be on every Wednesday from 3.00 pm to 5.00 pm at office premises of Energy Info Tech Center (EITC) at Dangania, Raipur.
- 12. Tender shall be opened in the scheduled time as notified. If the due date of opening/submission of tender documents is declared a holiday by the Govt. or local administration, it will be automatically shifted to next working day for which no prior intimation shall be given. Tender opening shall be continued on subsequent days, in case the opening of all tenders is not completed on due date because of the technical constraints of system on the day of opening. It may be noted that the due date of opening/time may be altered/ extended if desired by CSPTCL without assigning any reason. However, intimation shall be available on company's tender portal/bidders email (if participation shown). The bidders are requested to keep track of the same.
- 13. Amendment in tender specification will be published on our website as well as in SRM system and the intimation regarding amendment in date extension will be conveyed through system generated e-mail to registered bidders only.
- 14.Before participating the bidder shall carefully read all the instructions and processes.
- 15. Tender duly completed in all respects will be accepted online up to due date & time and will be opened on the due date at specified time in the presence of bidders or their E.D.(S&P), CSPTCL Tender No. 111/641 for supply of 10 KV Digital Insulation Tester. Tender should reach the office of The Executive Director (S&P),CSPTCL authorized representatives. In case of authorized representative(s) they shall bring the original authorization letter with their signature attested by the bidder.

Executive Director (S&P) CSPTrans.CL: Raipur

#### **Pre-Qualifying Requirements Qualifying Requirements**

The bidding is open to registered supplier of CSPTCL/CSPDCL only.

Bidder should have Manufacturer or Authorized dealer of Manufacturer .

Bidder Should have successfully supplied Tender Item to State Electricity Board/Power Grid & NTPC Limited, Bidder shall submit copies of contracts issued by State Electricity Board/Power Grid & NTPC Limited.

S.E.(I)
O/o Executive Director (S&P)
CSPTrans.CL : Raipur

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## CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED (A Government of Chhattisgarh Undertaking)

### OFFICE OF EXECUTIVE DIRECTOR (S&P)

Address : 3rd Floor I D Building Dangenia Painur (CC) 402012

	3 <sup>rd</sup> Floor, LD Building, Dangar	1
Website: www.cspc.co.in	Fax :0771-2574246,	Tele.No.0771-2574236
No. 02-16/SE(I)/Ltd TR No. 111/6	41	Raipur, dtd. 20.07.2021
		ned in e-tender notice and offer for due be opened on same date i.e. 24.08.2021
EARNEST MONEY DEPO Tender cost Rs. 560.00 (Rs. Five hundred ninety) if down	Five hundred sixty) if purch	nased from this office and Rs. 590/- (Rs.
ISSUED:		
M/s		
		for Rs. 560.00 (
Envelope duly super name & address in t time/date otherwise to (2) The tender should be Namely as under:- Sealed Envelop-1: I No., due date of open Sealed Envelop-2: 1	scribed "Tender Name, Tender O/o E.D.(S&P), CSPTC ender shall be liable for reject submitted in the office having for Earnest Money only duling & Firm's name seal & a Prescribed document along r Name, No., due date of open	ng minimum TWO envelops  ly super scribed "Tender Name, tender ddress (Part-I).  with TERMS & CONDITIONS duly

SE(I) O/o Executive Director (S&P) **CSPTrans.CL**: Raipur

#### **SCHEDULE-I**

#### PRICE BID ONLY ONLINE ACCEPTABLE.

Tender specification No. 02-16/SE(I)/TR No. 111/641 Raipur, dtd. 20.07.2021, due for submission on dt. 24.08.2021 up to 15.00 Hrs. & to be opened on dt. 24.08.2021 (15.30 Hrs.) EMD REQIRED Rs. 8000.00 (Rs. Eight thousand only).

The undersigned hereby tender and officer to CSPTCL to supply the material for the quantity at the rates as indicated here under:-

S.N	Specification of Material (As	Qty	Unit Ex-	Freight	GST on	Total Unit	Total
о.	per tender)	.in	works price	Charge	Ex-	FOR D price	Amt.
		Nos	inclusive of	s per	works	including	in Rs.
			packing,	Unit	Price+	packing,	
			forwarding,	(Rs.)	Freight	forwarding,	
			charges		charges	freight	
			(Rs. /Unit)		% in	charges &	
					Rs.	GST (In Rs.)	
1	10 KV Insulation for various	01					
	EHV 132 & 220 KV S/s under						
	jurisdiction of EE(S/s-O&M),						
	Rajnandgaon						

The undersigned undertake to observe and abide by the terms & condition at the tender specification enclosed herewith.

Earnest money of Rs. 8	000.00 (Rs. Eight Thousand) only l	nas been depo	sited to the
Manager (RAO:HQ), CSPTC	<b>L:Raipur</b> ( <b>C.G.</b> ) vide M.R. No	dtd	/ D.D.
No	dtd.		Drawn
	( Name of Bank ) .		
DI	a:	61:11	
Place:	Signature	of bidders	
Date:	Name		
	Address		
	Seal		

## Limited Tender No. 02-16/SE()/TR No. 111/641 Raipur, dtd. 20.07.2021

#### Other Terms and Conditions (if any)

1)	FOR:	
2)	Taxes:	
3)	Validity:	
4)	Delivery:	
5)	Payment:	
6)	Security Deposit:	
7)	Others:	
Place:		gnature of bidders
Date:		me
		dress
	Se	ai

## Limited Tender No. 02-16/SE(I)/TR No. 111/641 Raipur, dtd. 20.07.2021

#### **Details of Bidders**

1)	Name of firm/partners & Address	:
		;
		:
2)	Phone /Mobile No	:
3)	GST Registration No.	:
4)	PF No. if any	:
5)	ESI Registration No. (If applicable)	:
<b>6</b> )	PAN (Mandatory)	:
<b>7</b> )	SAP Vendor No.	:
8)	Vender Registration No.	:
_		
Place:		Signature of bidders
Date:		Name
		Address
		Seal

C.I.N.: U40108CT2003SGC015820

## CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED

(A Government of Chhattisgarh Undertaking)

#### OFFICE OF THE EXECUTIVE DIRECTOR (S&P)

**Address:** 3<sup>rd</sup> Floor, LD Building, Dangania-Raipur (CG)-492013

Website: <u>www.cspc.co.in</u> Fax :0771-2574246, Tele.No.0771-2574239

No. 02-16/SE(I)/TR No. 111/641

Raipur, dtd. 20.07.2021

Due On 24.08.2021

#### SECTION-I GENERAL TERMS & CONDITIONS OF TENDER SPECIFICATION.

- 1) Sealed tenders quotation are invited by The Executive Director (S&P), CSPTCL: Raipur, for supply of 10 KV Insulation Tester under jurisdiction of E.E. (Sub-stn.-O&M) Dn. CSPTCL, Rajnandgaon.
- 2) Tender should reach the office of The Executive Director (S&P), CSPTCL, Dangania Raipur, by **15.00 Hrs. on 24.08.2021.** Tenders received after the stipulated time / date will not be considered. Covers should invariably be superscribed for supply of 10 KV Insulation Tester and should be accompanied with Bankers Cheque or DD payable in favor of The Manager (RAO:HQ) CSPTCL, Raipur (C.G.). The tender will be opened on the same day at 15.30 Hrs.
- 3) When tenders are delivered by special messenger it should be dropped in the "Tender Box" kept in the office of The Chief Engineer (S&P), CSPTCL, Daganiya Raipur on any working day between 10.30 Hrs. to 15.00 Hrs.
- 4) Full descriptive particulars and complete specifications should accompany the tender. Offers should be kept open for acceptance for at least three months from the date of opening. However in due circumstances beyond control bidders are advised to extend validity. However, they shall not be permitted to revise their rates.
- 5) The CSPTCL reserves the rights to reject any or all tenders or to accept any tender considered advantageous to the CSPTCL whether it is the lowest tender or not, and In case of correction done in the tender, the same should be initialed otherwise tenders may not be considered.
- 6) All the Bidders shall essentially indicate the break-up of prices as shown in tender form. In case any of the charges are not included in the quoted prices, the same shall be clearly shown as extra, indicating specifically the rate/scale of such charges.
- 7) The terms and conditions mentioned in tender specification shall be binding on all Bidders and no condition or stipulation contrary to our condition shall be applicable.
- **8) EARNEST MONEY:** Each bidders should submit an earnest money of Rs. 8000/-(Rs. Eight thousand) only.

The tenders not accompanied with earnest money will summarily be rejected.

#### 9) FORM OF EARNEST MONEY DEPOSIT:--

The earnest money deposit can be furnished in any of the following forms.

i. By Bankers cheque or DD on a schedule Bank at Raipur made payable to the Manager (RAO:HQ) CSPTCL, Raipur (C.G.).

Offers accompanied with inadequate earnest money will be rejected and returned unopened.

#### 10) Exemption from payment of earnest money: -

- i. SSI Units of C.S./Ancillary Units of CSPTCL, for the items quoted these units must be registered.
- ii. "Fully owned state Government units" will qualify for this exemption only if 100% shares are held by the State Govt. concerned for which documentary evidence must be made available at the time of opening of tender.
- iii. In case of Small Scale Unit permanently registered with NSIC, their registration certificate should be valid for the items on tender on due date of opening.
- 11) SUBMISSION OF EARNEST MONEY DEPOSIT: -A separate envelope containing the earnest money or a certificate in support of claim for exemption from this should be attached with your offer duly super scribed Earnest Money Deposit in appropriate form against tender specification No. 02-16/SE(I)/TR No. 111/641 Raipur, dtd. 20.07.2021 for supply of 10 KV Insulation Tester under jurisdiction of E.E. (Sub-stn.) Dn. CSPTCL, Rajnandgaon

#### 12) FORFEITURE OF EARNEST MONEY DEPOSIT: -

It should be clearly understood that in the event of Bidders failing to accept and execute the telegraphic and detailed orders, if it is placed within the validity period of the offer, the full amount of earnest money will be forfeited and CSPTCL decision in this respect will be final and binding on the Bidders.

#### 13) EXTENSION ORDER: -

In the event of an order being placed on Bidders, he is requested give his concurrence that he is also willing to accept additional order on the same terms and conditions , if the extension order is placed by the **CSPTCL** within six months from the date of acceptance / placement of order.

**14) PRICE**:-The prices should be quoted F.O.R. Destination including packing, forwarding, freight, insurance, GST and any other charges.

#### 15) PERFORMANCE GUARANTEE / DEFECTIVE SUPPLIES :-

If during the course of 12 months from the date of dispatch, any of the goods is found to be defective in materials or workmanship or develop defect in service, the same will be rectified by you free of all charges.

#### **SECURITY DEPOSIT:-**

The successful Bidders shall deposit security at the rate of 10 % of the value of the order in the form of Bankers Cheque or Bank Draft in favour of "Manager (RAO:HQ) CSPTCL, Raipur (C.G.)."

#### **17) PAYMENT** :-

100 % payment against receipt of the material in the STORES in good condition within a month shall be made by Manager (RAO:HQ) CSPTCL, Raipur (C.G.). No interest shall be payable in case of delay in payment.

#### **19) PENALTY:-**

If the Bidders fails to supply the material within the specified time, the penalty shall be levied @ 0.5 % per week or part thereof up to maximum of 10 % on the value of unsupplied material.

**20)** MATERIALS:-All materials supplied shall be as per tender specification.

#### 21) DELIVERY:-

The delivery shall be completed within specified days mentioned in the order from the date of receipt the tendered order.

22) CONSIGNEE:-The Executive Engineer (Area Stores) CSPTCL, Bhilai

#### 23) SUBMISSION OF BILLS:-

All the bills shall be submitted in triplicate to the E.E.(Area Stores), CSPTCL, Bhilai

- **ANY DESPUTE ARISING:-** Out of the contract shall be subject to the jurisdiction of court at Raipur.
- 25) The Executive Director (S&P), CSPTCL, Raipur (C.G.) reserve the right to amend or reject or the tender partially or fully or to change the Quantity of materials without assigning any reason, at any stage whatsoever

S.E. (I) O/O E.D.(S&P) CSPTCL: RAIPUR

## **SECTION – II**

## e-TENDER NO. 02-16/SE(I)/TR No. 111/641 Raipur, dtd. 20.07.2021

TECHNICAL SPECIFICATION FOR SUPPLY OF 10 KV Insulation Digital Tester under jurisdiction of E.E. (Sub-stn.) Dn. CSPTCL, Rajnandgaon

#### **TECHNICAL SPECIFICATIONS**

#### **10KV Digital Insulation Tester Heavy Duty**

- a) Voltage Selection 10000 V (50 V to 1000V in 10V steps 1000V to 10000 V in steps of 25 V Steps)
- b) Instrument should have provision to operate in both modes i.e. 230 V AC (10%) for 50Hz & Internal rechargeable battery with inbuilt battery charging circuit.
- c) Resistance Measurement from K ohm to T ohm, Resistance range for each rated voltage shall be indicated in the offer.
- d) Instrument should display direct reading of voltage across the test piece when the test is in progress.
- e) Instrument should display direct reading of the current through the 'device under test' when the test is in progress.
- f) The instrument must display the capacitance of the 'Device under test' when the test is in progress.
- g) Maximum Short Circuit current 6 mA or Better
- h) Insulation Resistance Measurement should be in Digital and bar graph with backlit display.
- i) The display should Clear & big to see for the results.
- j) The backlit display must be able to switch ON and OFF from a single button from the front console.
- k) The instruments shall discharge the 'device under test' after every test.
- l) The instrument must be able to take the following tests with selectable parameters in every test:

Voltage Measurement Insulation Resistance Measurement Polarization Index Calculation Dielectric Absorption Ratio Calculation

- The test start button shall also work as stop button to start the test and to stop the test when the test is being conducted (even before the test is conducted).
- Capacitance Measurement
- Step Voltage Measurement to check the behaviour of Insulation

- Dielectric Discharge Measurement to check the behaviour of Insulation
- •Burn Facility to burn the High Resistance Fault.
- Continuity Measurement.
- Temperature Measurement
- ••A.C.Supply: The necessary accessories for this purpose shall be supplied by bidder.

The ratings of D.C. batteries shall be indicated in the offer.

- •PC compatibility: Suitable port and software if any for download of digital data to a computer should be possible.
- Filter: Digital and software filter should be available in the instrument to remove induced noise in the
- •Operating Temperature: -10°C to 50°C.
- Storage Temperature: -20°C to 70°C.
- •Data storage: Storage of 9999 reading with Real Time RS232 or USB download capability to store test results for trending analysis.
- Safety Compliance: should conforms to safety standard EN 61010-1 for instrument and EN
- •61010-031 for accessories.
- Environmental Protection Instrument should be rated.
- •EMC standard: EMC Meets IEC 61326 Class B.
- •Instrument should have compliance to following safety standards EN 61010-1 for instrument and EN 61010-031.
- •Over voltage category III, 600 V
- •Noise current rejection (resistive load): Noise current rejection of 1.5 mA to 6mA using the filters

#### **Standard Accessories:**

Following standard accessories shall be supplied along with each equipment: -

- 1. Test leads of 20-meter Length.
- 2. Operation and maintenance Manual (in English): 1 No.
- 3. Cable for Data Transfer from Equipment to PC
- 4. Softweare CD for Analysis of the results.
- 5. Carrying Case for all accessories
- 6. The guard test lead.

Any other accessories, bidder feels necessary for normal operation of instrument and carrying out requisite testing, should be offered / supplied with the instrument.

Specification	Requirement	Bidder to Confirm
Voltage Selection	100 V to 10000V	
Power Supply	230 V AC (+/-10%) 50Hz	
	also with Battery	
Battery	Internal rechargeable battery	
	with inbuilt battery charging	
	circuit.	
Rated resistance Range	1 K $\Omega$ to 40 T $\Omega$ .	
Resistance Accuracy	$\pm$ 3.5% at 1T $\Omega$ and 15% at	

	40ΤΩ
Maximum Short Circuit	6 mA OR Better
current	O IIIA OK Dettel
The instruments shall	Bidder to confirm
automatic discharge the	Bidder to commin
'device under test' after every	
test.	
Voltage Measurement Range	10V to 750V AC/DC
Voltage Measurement  Voltage Measurement	± 3% (10 DIGIT)
Accuracy	= 370 (10 DIGIT)
Capacitance Measurement	1 nF to 30uF
Accuracy Capacitance	± 5% (5 DIGIT)
	ake the following tests with selectable parameters in
every test:	ake the following tests with selectable parameters in
Voltage Measurement	Required
Insulation Resistance	Required
Measurement	- Toquinou
Polarization Index Calculation	Required
Dielectric Absorption Ratio	Required
Calculation	required
Step Voltage Measurement	Required
Dielectric Discharge	
Measurement	
Continuity Measurement.	$0.01\Omega$ to $999\Omega$
Temperature Measurement	1°C to 100°C
Test time should be selectable	Required
from 1 second to 99 minutes.	1
Capacitor charging time	≤6.0 seconds per μF
Capacitor discharging time	≤2.0 seconds per μF
PC compatibility:	RS232 or USB
Filter for Noise Rejection	Digital and software filter
, , , , ,	should be available
Operating Temperature	-10°C to 50°C.
Storage Temperature	-20°C to 70°C.
Data storage	Storage of 9999 reading
	with individual Naming of
	result, Date and Time
	stamping.
store test results	for trending analysis.
Safety Compliance	EN 61010-1 for instrument
	and EN
	61010-031 for accessories.
Environmental Protection	IP66 0R IP67
EMC standard	EMC Meets IEC 61326

	Class B.	
Instrument should have	EN 61010-1 for instrument	
compliance to safety standards		
Over voltage category	CAT III, 600 V	
Noise current rejection filters	Noise current rejection of	
	1.5 mA to 5mA using the	
	Min four Digital Filter	
	10S,50S,100S,200S.	
Standard / associated accessories:		
Test leads	20-meter length shielded	
	test lead with CAT IV	
	clamp	
Operation Manual (in English)	1 No. along with Each	
	equipment.	
For Data Transfer	RS 232 or USB cable along	
	with each kit	
Software for Analysis	Required free of cost	
Carrying case for Cable	Required	
Guard test lead	Required	
Type Test Report	Required	

S.E. (I) O/O E.D.(S&P) CSPTCL: RAIPUR