LIMITED / OPEN LIMITED TENDER DOCUMENT

INVITATION TO BID



CSIR - CENTRE FOR CELLULAR & MOLECULAR BIOLOGY (CCMB)

(Council of Scientific and Industrial Research)

HABSHIGUDA, UPPAL ROAD, HYDERABAD 500007, TELANGANA, INDIA

Tel: +91-40-27192681 EPABX:+91-4027160222 to 240 Fax: +91-40-27160310/ 311/ 591 E-mail: spo@ccmb.res.in

To M/s

Dear Sirs.

Sub: Quotation for supply of "Electroporation System"

Ref: Our Enquiry No. 4081/140220/1626/EQPT dated: 28.02.2020

Director, CSIR-CCMB, Hyderabad (TELANGANA), India invites original Equipment Manufacturers, their Authorized Distributors and Indian agents of Foreign Principals, if any, submit their *ONLINE* e-bids under **Single Bid System** through Central Public Procurement Portal (CPPP) (URL:https://etenders.gov.in/) only for the supply, installation and commissioning of the following item/s:

SI. No.	Description of material (s)	Qty.
1.	Electroporation System.	ONE
	 End Use: R&D Purpose Detailed specifications: As per Annexure -Y Scope of supply and incidental services: As per Annexure-Y Inspection and tests required: YES Acceptance test: YES Training: N/A Warranty: 03-years warranty. Qualification criteria (if any): — Pre-Bid Conference (if any): NA 	
	(All prospective bidders are requested to kindly go through the NEW terms and conditions before formulating and submitting your bids)	

Last Date for submission : 16.03.2020 up to 13:00 hrs. (IST)

Date of Opening : 17.03.2020 at 14:30 hrs. (IST)

TERMS & CONDITIONS

- 1. The quotation must be in the form furnished by the Purchaser and should be free from corrections/erasures. In case there is any unavoidable correction it should be properly attested. If not the quotation will not be considered. Hand written Quotations will not be considered.
- 2. It may kindly be noted that your bid should be in (single part).
- 3. E-Bids are invited through the electronic tendering process and the Tender Document can be downloaded from the e-Tender portal of Central Public Procurement (CPP) portal of the Government of India i.e. https://etenders.gov.in. A copy of the Tender Document is also available on CSIR-CCMB Website, http://www.ccmb.res.in for information. However, the submission of e-Bids will be only through the CPP e-Tender portal https://etenders.gov.in. Bids will not be accepted in any other form.
- 4. The acceptance of the quotation will rest with the competent authority of CSIR-CCMB, Hyderabad, who does not bind himself to accept the lowest quotation and reserves the right to himself to reject, or partially accept any or all the quotations received without assigning any reason.
- 5. Price quoted should be net and valid for a minimum period of **90 days** from the date of opening of the quotation.
- 6. Participation in this tender is by invitation only and is limited to the selected Purchaser's registered suppliers and also open to registered with CPPP portal.
- 7. The bidder must submit the applicable Price Schedule Form as Annexed to the tender document available on the website.
- 8. Complete specification with manufacturer's name and address should be given while quoting. Literature/Pamphlets should also be enclosed wherever applicable.
- Prices are required to be quoted in units indicated in the enquiry. When quotations are given in terms of other units, relationship between two sets of units should be furnished. Quantity discounts, if any should also be indicated. The items should be quoted indicating the serial No. of our RFO.
- 10. In cases of agents quoting on behalf of their foreign manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorize only one agent/dealer. There can be only one bid from the following:
 - i. The foreign manufacturer directly or through one Indian agent on his behalf; or
 - ii. Indian/foreign agent on behalf of only one principal.
- 11. Please indicate the name and address of the agents in India if any, the details of service to be rendered by them & the percentage of commission payable to them. Agency commission payable to the Indian Agent should be clearly indicated. The Agency commission would be payable only in Indian Rupees after acceptance.

- 12. This Lab/Instt Is registered with Dept. of Scientific & Industrial Research, Govt. of India and concessional customs duty and GST & IGST are leviable vide notification no. 54/2002-Customs on all imports covered under notification No.51/96-Customs dated 23.07.1996, Notification No.47/2017-Integrated Tax (Rate) and Notification No.45/2017-Central Tax (Rate) both dated 14th November, 2017.
- 13. Please indicate the mode of dispatch/transportation of the items by Air/Sea/Rail/Road only.
- 14. In case the items in the enquiry are covered by any rate contract or running contract finalized by any other state or central Government, it should be specified in your quotation and accepted contract rates should also be mentioned.
- 15. Delivery period required for supplying the material should be invariably specified in the quotation. The offered delivery period shall have to be strictly adhered to in case an order is placed.
- 16.Liquidated Damages Clause for delays: The applicable rate is 0.5% per week and maximum deduction is 10% of the contract price.
- 17. If the deliveries are not maintained and due to that account the purchaser is forced to buy the material at your risk and cost from elsewhere, the loss or damage that may be sustained there by will be recovered from the defaulting supplier.
- 18.All supplies are subject to inspection and approval before acceptance. Manufacturer warranty certificates and manufacturer/Government approved lab test certificate shall be furnished along with the supply, wherever applicable.
- 19.TDS would be recovered as per rules in case of Fabrication/ Servicing/ Maintenance jobs/Installation charges, etc, as per statutory applicability.
- 20. Kindly furnish your PAN & GST Number etc. in your quotation for our records.
- 21.0ur normal payment terms are 100% (hundred percent) within 30 (thirty) days on receipt and acceptance of material at our site in good condition. Please inform your Bank details for RTGS payment.
- 22.All disputes shall be settled in the courts of Hyderabad (Telangana, India) Jurisdiction only.
- 23. Tender conditions (printed on the reverse), if any, or otherwise sent along with the tender shall not be binding on us.
- 24. All the above instructions and our standard terms and conditions must be complied failing which your offer may be liable for rejection.

25. As per Govt. of India procurement policies,

- a. The purchaser intends to give purchase preference to local suppliers* in case the cost of procurement is in the range of more than Rs 5.00 lakhs and up to Rs. 50.00 lakhs.
- b. There is no restriction on the eligibility of the suppliers.
- c. The procuring entity intends to give purchase preference to products/goods manufactured by micro, small and medium enterprises.
- *"Local supplier" means a supplier or service provider whose product or service offered for procurement meets the minimum local content as prescribed in DIPP Order No.P-45021/2/2017-PP (BE-II) dated 28th May, 2018 or by the competent Ministries/Departments in pursuance of this order, as amended from time to time.

'Local content' means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the items procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.

26.Instructions to Bidders, General Conditions of Contract applicable to **Limited / Open Limited Tenders** originating from CCMB Stores & Purchase (S&P) Division along with different formats can be viewed on our website https://www.ccmb.res.in under the heading tenders.

Yours faithfully,

(Dharmendra Kumar) Stores& Purchase Officer

CHAPTER 3

FORMATS

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PRICE SCHEDULE FOR GOODS BEING OFFERED FROM INDIA

Name of the Bidder Tender No

1	2	3	4	5	6	7	8	9	10	11	12
SI. No.	Item Description With HSN code	Country of origin	Unit	Quantity	Unit Rate Ex-Works, Ex- warehouse, Ex-show room off the shelf price (inclusive of all taxes already paid)	Total price Ex-Works, Ex- warehouse, Ex- show room off the shelf price (inclusive of all taxes already paid) 5x6	GST & other taxes payable, if contract is awarded	Packing & forward- ing up to station of dispatch if any	Charges for inland transportation, insurance up to Lab. / Instt.by air/road/rail (retain one only)	Total Price	Installation, Commis- sioning and training charges, if any

Note:	Total Bid price in foreign currency
(a) The cost of optional items, if any shall be indicated separately	in words
(b) Cost of Spares, if any	Signature of Bidder
	Name
	Business Address

PRICE SCHEDULE FOR GOODS BEING OFFERED FROM ABROAD

lame of the Bidder	Tender No
--------------------	-----------

1	2	3	4	5	6	7	8	9	10	11	12
SI. No.	Item Description	Country of origin	Unit	Qty.	Unit price Indicating currency FOB (named port of shipment or FCA (named place of delivery) (retain only one)	Total price (5x6) FOB (named port of shipment) or FCA (named place of delivery) (retain only one)	Charges for Insurance & transportation to port//place of destination	Total price CIF/CIP (retain one only) (7+8)	Indian Agents Commission as a percent of FOB /FCA price included in the Quoted price	Approx. Shipment weight and volume	Indian Customs Tariff No and HSN No. (ICT & HSN No.)

Note: Currency		Total Bid price in foreign currency
		in words
(a) (b)	Indian agents name & address Installation, commissioning & training charges, if any	Signature of Bidder
	,	Name
(c)	Cost of Spares, if any	
		Business Address
(d)	The Indian agent's commission shall be paid in Indian Rup documents in accordance with clause 2.22 of GCC.	pees only based on the Exchange Rate prevailing on the date of negotiation o

(e) The cost of optional items shall be indicated separately.

Bid Form

(Refer para 5.1.2 (ix)(h) of the CSIR Manual)

[The Bidder shall fill in this Form in accordance with the instructions indicated. No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: [insert date (as day, month and year) of Bid Submission]

Tender No.: [insert number from Invitation for Bids]

Invitation for Bid No.: [insert No of IFB]

To: [insert complete name of Purchaser]

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda No.: [insert the number and issuing date of each Addenda];
- (b) We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods and Related Services [insert a brief description of the Goods and Related Services];
- (c) The total price of our Bid, excluding any discounts offered in item (d) below, is: [insert the total bid price in words and figures, indicating the various amounts and the respective currencies];
- (d) The discounts offered and the methodology for their application are:

Discounts: If our bid is accepted, the following discounts shall apply. [Specify in detail each discount offered and the specific item of the Schedule of Requirements to which it applies.]

- (e) Our bid shall be valid for the period of time specified in ITB Sub-Clause 1.17.1 from the date fixed for the bid opening, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) If our bid is accepted, we commit to obtain a performance security in accordance with ITB Clause 1.43 and GCC Clause 2.13 for the due performance of the Contract and also submit order acceptance within 14 days from the date of contract in accordance with ITB Clause 1.42 and GCC Clause 2.44;

(g)	The following commissions, gratuities, or fees have been paid or are to be paid with respect to the bidding process or execution of the Contract: [insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]								
	Name of Recipient	Address	Reason	Amount					
									
	(If none has been pai	d or is to be paid, indicat	e "none.")						
(h)	We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.								
(i)	We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.								
Signed [insert		/hose name and capacity	/ are shown]						
In the	capacity of [insert lega	al capacity of person sign	ning the Bid Subm	ission Form]					
Name	: [insert complete nam	ne of person signing the E	Bid Submission Fo	rm]					
Duly a	uthorized to sign the b	oid for and on behalf of: [i	insert complete na	ame of Bidder]					
Dated	on day	of,	[insert dat	e of signing]					

Bidder Information Form

(Refer para 5.1.2 (ix)(a) of the CSIR Manual)

(a) The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted. This should be done of the letter head of the firm]

Date: [insert date (as day, month and year) of Bid Submission]

Tender No.: [insert number from Invitation for bids]

Page 1 of_____ pages

01.	Bidder's Legal Name [insert Bidder's legal name]
02.	In case of JV, legal name of each party: [insert legal name of each party in JV]
03.	Bidder's actual or intended Country of Registration: [insert actual or intended Country of Registration]
04.	Bidder's Year of Registration: [insert Bidder's year of registration]
05.	Bidder's Legal Address in Country of Registration: [insert Bidder's legal address in country of registration]
06.	Bidder's Authorized Representative Information
	Name: [insert Authorized Representative's name]
	Address: [insert Authorized Representative's Address]
	Telephone/Fax numbers: [insert Authorized Representative's telephone/fax numbers] Email Address: [insert Authorized Representative's email address]
07.	Attached are copies of original documents of: [check the box(es) of the attached original documents]
	Articles of Incorporation or Registration of firm named in 1, above.

Signature of Bidder	
Name	
Business Address	

MANUFACTURERS' AUTHORIZATION FORM

(Refer para 5.1.2 (ix)(b) of the CSIR Manual)

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer and be enclosed with the technical bid.

Date: [insert date (as day, month and year) of Bid Submission]

Tender No.: [insert number from Invitation for Bids]

To: [insert complete name and address of Purchaser]

WHEREAS

We [insert complete name of Manufacturer], who are official manufacturers of [insert type of goods manufactured], having factories at [insert full address of Manufacturer's factories], do hereby authorize [insert complete name of Bidder] to submit a bid the purpose of which is to provide the following Goods, manufactured by us [insert name and or brief description of the Goods], and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 2.21 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: [insert signature(s) of authorized representative(s) of the Manufacturer]

Name: [insert complete name(s) of authorized representative(s) of the Manufacturer]

Title: [insert title]

Duly authorized to sign this Authorization on behalf of: [insert complete name of Bidder]

Dated on _____ day of _____, ___ [insert date of signing]

BID SECURITY FORM

(Refer para $5.1.2 \overline{(ix)(c) \& 6.1.1 (01)}$ of the CSIR Manual)

whereas (hereinafter called the tenderer") has submitted their offer da	ted
(hereinafter called the tender") against the purchaser's tender enquiry No	
KNOW ALL MEN by these presents that WE having our registered office at	of
are bound unto (hereinafter called	the
"Purchaser")	
In the sum of	
THE CONDITIONS OF THIS OBLIGATION ARE:	
(1) If the tenderer withdraws or amends or modifies or impairs or derogates from the Tender in any respect within the period of validity of this tender. Or	
(2) If the tenderer having been notified of the acceptance of his tender by the Purchaser during period of its validity:-	the
(a) If the tenderer fails to furnish the Performance Security for the due performa of the contract.	nce
(b) Fails or refuses to accept/execute the contract.	
WE undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, with the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying occurred condition or conditions.	the
This guarantee will remain in force up to and including 45 days after the period of tender validity i.e., up and any demand in respect thereof should reach the Bank not later than this date.) to
(Signature of the authorized officer of the Ba	nk)
Name and designation of the off	icer

Note: Whenever the bidder chooses to submit the Bid Security in the form of Bank Guarantee, then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the Purchaser with a covering letter to compare with the original BG for the correctness, genuineness, etc.

Seal, Name & Address of the Issuing Branch of the Bank

Bid-Securing Declaration Form

(Refer para 5.1.2 (ix)(d) & 6.1.1 (02) of the CSIR Manual)

Date:	 	
Bid No	 	

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

- (a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or
- (b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown) in the capacity of (insert legal capacity of person signing the Bid Securing Declaration).

Name: (insert complete name of person signing he Bid Securing Declaration)							
Duly authorized to sign	the bid for an on behalf of : (ir	nsert complete name of Bidder)					
Dated on	day of	(insert date of signing)					
Corporate Seal (where appropriate)							

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

PERFORMANCE STATEMENT FORM

(Refer para 5.1.2 (ix)(e) of the CSIR Manual)

(For a period of last 3 years)

Order	Order	Descrip-	Value	Date	of	Date	of	Remarks	Has	the	equipn	nent	Contac	t
Placed by	No.	tion and	of	comple	e-	actual		indicating	been		insta	alled	persor	1
(full	and	quantity	order	tion	of	complet	ion	reasons	satisf	actory'	? (Attac	h a	along	with
address of	date	of		deliver		of delive	ry	for late	certif	icate	from	the	Teleph	one
Purchaser)		ordered		as per	r			delivery, if	purch	naser/C	Consigne	e)	No.,	FAX
		equip-						any					No. an	d
		ment		Contra	ct									
													e-mail	
													addres	S

		Signature and Seal of the manufacturer/Bidder
		,
Place	:	
Date	:	

DEVIATION STATEMENT FORM

(Refer para 5.1.2 (ix)(f) of the CSIR Manual

SI. No.	Name	of	Specifications of	Compliance	Deviation, if any	Technical
	Specifications	/	Quote Model /	Whether Yes	to be indicated	justification for
	Parts	/	Part /Accessory	of No	in unambiguous	the deviation, if
	Accessories	of			terms (The	any. If
	Tender Enquiry				compliance /	specification is
					Deviation	superior
					should be	/inferior than
					supported by	asked for in
					relevant	the enquiry, it
					Technical	should be
					Literature)	clearly brought
						out in the
						justification

Signature of Bidder

- ✓ If the bidder offers more than one model, then the Compliance Statement must be enclosed for each and every model separately.
- ✓ The technical and commercial deviations should be indicated separately.
- ✓ If the bidder fails to enclose the compliance statement, his bid is likely to be rejected.

Place:	
Date:	
	Signature and seal of the Manufacturer/Bidde
NOTF:	

1) Where there is no deviation, the statement should be returned duly signed with an endorsement indicating "No Deviations".

SERVICE SUPPORT FORM

(Refer para 5.1.2 (ix)(g) of the CSIR Manual)

SI. No.	Nature	of	training						
	Imparted			equi	pme	nt servi	ed in	the	Nos. and e-mail address
				past	3 уе	ars			

	Signature and Seal of the manufacturer/Bidder
Place:	
Date:	

PERFORMANCE SECURITY FORM

(Refer para 5.1.2 (ix)(i) & 6.1.2 (02) of the CSIR Manual)

MODEL BANK GUARANTEE FORMAT FOR PERFORMANCE SECURITY

WHEREAS
AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;
AND WHEREAS we have agreed to give the supplier such a bank guarantee;
NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of
We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.
We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.
This guarantee shall be valid until the day of
(Signature of the authorized officer of the Bank)
Name and designation of the officer
Seal, Name & Address of the Issuing Branch of the Bank

Note: Whenever, the bidder chooses to submit the Performance Security in the form of Bank Guarantee, then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the Purchaser with a covering letter to compare with the original BG for the correctness, genuineness, etc.

ACCEPTANCE CERTIFICATE FORM

(Refer para 5.1.2 (ix) (j) of the CSIR Manual)

No				Dated:
M/s.				
		Sub: Certificate of commissioning	of equipment	
01.	Thi	s is to certify that the equipment as detail	ad halow has/hava haan r	eceived in good condition along
01.		h all the standard and special accessories		
		talled and commissioned.	(casjeet to remarks in ra	14 2). The dame had been
(a)			Date	
(b)	De	ntract Noscription of the equipment		
(c)	Na	me of the consignee		
(d)	Sch	neduled date of delivery of the consignme	nt to the Lab./Instts.	
(e)		ual date of receipt of consignment by the		
(f)		neduled date for completion of installation		
(g)	Tra	iining Starting Date		
(h)	Tra	ining Completion Date		<u></u>
(i)		mes of People Trained		<u></u>
(j)	Act	ual date of completion of installation/com	missioning	_
(k)	Per	nalty for late delivery (at Lab./Instts. level)	₹	
(I)		nalty for late installation (at Lab./Instts. le		
	De	tails of accessories/items not yet supplied	I and recoveries to be mad	le on that account:
OL NI	_	Description		Amazonak ka ha wasan susuk
SI. No	Э.	Description		Amount to be recovered
02.	The	e acceptance test has been done to our e	ntire satisfaction. The supp	olier has fulfilled his contractual
		igations satisfactorily		
		-	Or	
	The	e supplier has failed to fulfill his contractu	al obligations with regard t	to the following:
	(a)			
	(b)			
	(c)			
	(d)			
	The			sis sametyantun lahligations is sa
indicat		e amount of recovery on account of failur	e of the supplier to meet i	nis contractual obligations is as
maicat	.eu a	at Sr. No. 3.		
For Su	nnlic	ar.	For Purchaser	
10130	ppiid	51	i di Fulchasei	
Signat	ure .		Signature	
- 10.			6.	
Name			Name	
Design	atio	n	Designation	
N.L.		C	Nie de Cile III II II II II	
Name	of th	ne firm	Name of the Lab/Instt	
Doto			Data	
Dale			Date	

Format for declaration by the Bidder for Code of Integrity & conflict of interest (Refer para 3.2.1 & 5.1.2 (ix)(m) of the CSIR Manual)

(On the Letter Head of the Bidder)

Ref. No:	Date	
То,		
(Name & address of the Purchaser)		
Sir,		
With reference to your Tender No	dated	_ I/We hereby
declare that we shall abide by the Code of Integrity	for Public Procurement as mentic	oned under Para
1.3.0 of ITB of your Tender document and have no	conflict of interest.	
The details of any previous transgression	is of the code of integrity with a	ny entity in any
country during the last three years or of being deba	arred by any other Procuring Entity	are as under:
а		
b		
С		
We undertake that we shall be liable fo	r any punitive action in case of	transgression/
contravention of this code.		
Thanking you,		
	Yours sinc	erely,
	Signatu	ıre
	(Name of the Autho Company	orized Signatory

ANNEXURE-X

Affidavit of self-certification regarding domestic value addition to be submitted by the bidder

The local supplier at the time of tender, bidding or solicitation shall be required to provide self-certification that the item offered meets the minimum local content and shall give details of the *location(s)* at which the local value addition is made as per applicable Make in India policy of the Govt. of India.

SPECIFICATIONS for "ELECTROPORATION SYSTEM"

Specifications

- Should have a choice of electrical field wave forms, square wave form for eukaryotic & prokaryotic cells
 & exponential wave form for prokaryotic & eukaryotic cells (Bacteria, yeast and plants), in one instrument that enable optimal electroporation conditions for all kind of cells.
- Should have preset optimized protocols for plant protoplasts, optimization protocols and many others.
- Should Deliver up to 3000V (Allows to transform the widest range of microorganisms)
- User friendly digital interface with intuitive programming controls all parameters, preferably non touch.
- Should have better reproducibility with the circuitry to adjust waveform to generate exponential decay
 pulses for optimal cell transformation and arc protection from calibrating better capacitors and sample
 resistance checks.
- User Method storage for >100 programs.
- Storage & recall of pulse parameters and results for previous 100 experiments
- Modular design for flexibility

System Specifications:

Outputs: Waveform Exponential decay or Square wave

Voltage: 10-3,000 volts

Capacitance: 10-500 V, 25-3275 uF in 25uF increments.

200-3000V, 10, 25, 50 uF.

Sample Resistance: 20ohm, minimum at 10-2500V

600ohm minimum at 2500-3,000V

Square Wave Timing: 10-500V: Pulse length 0.05-10ms duration in 0.05ms

increments, 10-100 ms duration in 1 ms increments, 1-10

pulses, 0.1 to 10 sec intervals.

500-3,000V: Pulse length 0.05-5ms duration in 0.05 ms

increments, 1-2 pulses, 5-30 sec minimum interval

Check List: Duly filled check list to be submitted along with the Technical Bid.

SI. No.	Requirement of Tender	Compliance	Document Submitted
1.	Price Schedule Forms	Yes/No	Yes/NA
2.	Bid Form	Yes/No	Yes/NA
3.	Bidders' Information Form	Yes/No	Yes/NA
4.	Manufacturers Authorization Form	Yes/No	Yes/NA
5.	Bid Security Form	NA	NA
6.	Bid Security Declaration	NA	NA
7.	Performance Statement Form	Yes/No	Yes/NA
8.	Deviation Statement Form	Yes/No	Yes/NA
9.	Service Support Detail Form	Yes/No	Yes/NA
10.	Performance Security Form	NA	NA
11.	Acceptance Certificate Form	Yes/No	Yes/NA
12.	Format of Declaration of abiding by the Code of Integrity & conflict of interest to be submitted by the bidder	Yes/No	Yes/NA
13.	Affidavit of self-certification regarding domestic value addition to be submitted by the bidder	Yes/No	Yes/NA