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**GENETIX BIOTECH ASIA PVT. LTD.**

9/54, Industrial Area Kirti Nagar, New Delhi-110015,INDIA

Website:www.genetixbiotech.com

E-mail:info@genetixbiotech.com

Phone- 011- 4502 7000

**SALES QUOTATION**

All India Institute Of Medical Sciences  
 The Head  
 Department of Biotechnology  
 All India Institute of Medical Sciences  
 Ansari Nagar, New Delhi - 110029  
 IN  
**KIND ATTENTION**

**Customer GSTIN No:** 07AAATA4049H1ZY  
 Company's GSTIN No. 07AABCG4572B1ZY  
 Company's TIN No. 07300252410  
 Company's PAN No. AABCG4572B

Doc No.	193323
Date	01-April-2024
Customer No.	Email
Valid Date	01-July-2024
Dispatch Through	
Destination	
Payment Term	Against Delivery
Delivery	7-8 Weeks
Warranty	5 Year
<b>Place of Supply</b>	<b>07-Delhi</b>

S. No.	Product Code	Product Description	Qty	UOM	Unit Rate (INR)	Vendor Name	Taxable Value	CGST		SGST	
								Rate	Amount	Rate	Amount
1	1652660	Gene Pulser Xcell™ Total System, 100/240 V, 50/60 Hz HSN # 90278090 Group - Instruments & Equip.	2	NO	1,157,000.00	Bio-Rad Laboratories (India) Pvt Ltd	2,314,000.00	CGST@9%	208,260.00	SGST@9%	208,260.00
2	1652086	Gene Pulser®/MicroPulser™ Cuvettes, 0.2 cm gap, 50/pack HSN # 90279090 Group - Plastic ware	2	PK	Included	Bio-Rad Laboratories (India) Pvt Ltd					
3	1652089	Gene Pulser®/MicroPulser™ Electroporation Cuvettes, 0.1 cm gap, 50/ PK HSN # 85439000 Group - Plastic ware	2	PK	Included	Bio-Rad Laboratories (India) Pvt Ltd					
4	1652088	CUVETTES 4MM PKG 50 STERILE HSN # 85439000 Group - Plastic ware	2	PK	Included	Bio-Rad Laboratories (India) Pvt Ltd					
5	UPS	Online UPS 1 KVA with 30 Min HSN # 85049090 Group - Instruments & Equip.	2	NO	Included	Misc					

<b>Remarks/Special Instructions</b> * CMC for 6th Year - 97000.00 (GST Extra) * CMC for 7th Year - 97000.00 (GST Extra) * CMC for 8th Year - 97000.00 (GST Extra) * CMC for 9th Year - 97000.00 (GST Extra) * CMC for 10th Year - 97000.00 (GST Extra)	<b>Base Value Total</b>	2,314,000.00
	<b>INTRA GST TAX</b>	416,520.00
	<b>Others</b>	
	<b>Grand Total INR</b>	<b>2,730,520.00</b>

Amount (In Words)

*(Handwritten Signature)*  
 अतिरिक्त प्राध्यापक/Additional Professor & Head  
 जैव प्रौद्योगिकी विभाग  
 Department of Biotechnology  
 All India Institute of Medical Sciences, New Delhi-29

CIN : U24239DL2001PTC112768  
 AN ISO 9001:2008 Certified Company.  
 "No Credit of Special Additional Customs Duty (SAD) is Admissible"  
 SUBJECT TO DELHI JURISDICTION

Registered office: C-88 Ground Floor, Kirti Nagar, New Delhi-110015, Ph-41424816, 251122146, Fax- 2546737  
 Branch Office: Unit No 318-319, Third Floor Wing A, Kanara Business Center, Ghatkopar (East) Mumbai- 400075, Telefax-022-25006834,25003897  
 and Floor, Thakker House, Plot No.39, Survey No.502, 503, Vijayi Puri Colony Kapra, Hyderabad-500062 Phone # 040-20080148 Telefax # 040-40161304, 42024387



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All India Institute Of Medical Sciences  
The Head  
Department of Biotechnology  
All India Institute of Medical Sciences  
Ansari Nagar, New Delhi - 110029  
IN

KIND ATTENTION -

Customer GSTIN No: 07AAATA4049H1ZY  
Company's GSTIN No. 07AABCG4572B1ZY  
Company's TIN No. 07300252410  
Company's PAN No. AABCG4572B

Doc No.	193323
Date	01-April-2024
Customer No.	Email
Valid Date	01-July-2024
Dispatch Through	
Destination	
Payment Term	Against Delivery
Delivery	7-8 Weeks
Warranty	5 Year
Place of Supply	07-Delhi

S. No.	Product Code	Product Description	Qty	UOM	Unit Rate (INR)	Vendor Name	Taxable Value	CGST		SGST	
								Rate	Amount	Rate	Amount
1	1652660	Gene Pulsar Xcell™ Total System, 100/240 V, 50/60 Hz HSN # 90278090 Group - Instruments & Equip.	2	NO	1,157,000.00	Bio-Rad Laboratories (India) Pvt Ltd	2,314,000.00	CGST@9%	208,260.00	SGST@9%	208,260.00
2	1652086	Gene Pulsar®/MicroPulsar™ Cuvettes, 0.2 cm gap, 50/pack HSN # 90279090 Group - Plastic ware	2	PK	Included	Bio-Rad Laboratories (India) Pvt Ltd					
3	1652089	Gene Pulsar®/MicroPulsar™ Electroporation Cuvettes, 0.1 cm gap, 50/ PK HSN # 85439000 Group - Plastic ware	2	PK	Included	Bio-Rad Laboratories (India) Pvt Ltd					
4	1652088	CUVETTES 4MM PKG 50 STERILE HSN # 85439000 Group - Plastic ware	2	PK	Included	Bio-Rad Laboratories (India) Pvt Ltd					
5	UPS	Online UPS 1 KVA with 30 Min HSN # 85049090 Group - Instruments & Equip.	2	NO	Included	Misc					

Remarks/Special Instructions * CMC for 6th Year - 97000.00 (GST Extra) * CMC for 7th Year - 97000.00 (GST Extra) * CMC for 8th Year - 97000.00 (GST Extra) * CMC for 9th Year - 97000.00 (GST Extra) * CMC for 10th Year - 97000.00 (GST Extra)	Base Value Total	2,314,000.00
	INTRA GST TAX	416,520.00
	Others	
	<b>Grand Total INR</b>	<b>2,730,520.00</b>

Amount (In Words)

*[Handwritten Signature]*

*[Handwritten Signature]*  
Dr. Anushree Singh  
Department of Biotechnology  
All India Institute of Medical Sciences, New Delhi-29



CIN : U24239DL2001PTC112768  
AN ISO 9001:2008 Certified Company.  
"No Credit of Special Additional Customs Duty (SAD) is Admissible"

Registered office: C-88 Ground Floor, Kirti Nagar, New Delhi-110015, Ph- 41424816, 251122146, Fax- 2546737  
Branch Office Unit No.318-319, Third Floor, Main A, Kirti Nagar Business Center, Ghatkopar (East) Mumbai- 400075. Telefax-022-25006834,25003897  
806, Rajaji Nagar, Ind Stage, IV Main A Block, Bangalore-560010. Phone 880-65744321, Telefax-08023577513  
2nd Floor, Thakker House, Pudinchi, Survey No.502, Sub V, Vijaya Puri Colony Kapra, Hyderabad-500062 Phone + 040-40161304, 42024387



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**BIO-RAD**Bio-Rad  
Laboratories, Inc.Life Science Group  
2000 Alfred Nobel Drive  
Hercules, California 94547  
Phone: 510-741-1000  
Fax: 510-741-5800

### Proprietary Certificate

This is to certify that **Gene Pulser Xcell Electroporation system** (Cat. No. 165-2660) is the proprietary and patented (U.S. Patents 4,750,100 and 4,910,140) Product to Bio-rad laboratories, 1000, Alfred Nobel Drive, Hercules, California USA-94547.

**Some of the unique features of Gene Pulser Xcell electroporation system are;**

- Provides **both exponential and square waveforms in one instrument.**
- Allows **optimization of parameters** (includes time constant, actual voltage applied, pulse interval, and pulse time, depending on the waveform chosen).
- Open system to deliver plasmid DNA, siRNA and other molecules in both eukaryotic & prokaryotic cells.
- User friendly features with compact size **and storage capacity for 144 protocols.** No external power source is required.
- **Patented microprocessor controlled Pulse Trac circuitry (U.S. Patents 4,750,100 and 4,910,140)** of Gene Pulser system delivers reproducible results. It provides prepulse sample resistance measurement and enables automatic discharge of current if the pulse or circuit is interrupted.
- Include preset optimized protocols for common bacteria, yeast & mammalian cells, user method storage, optimization protocols and many others.
- Modular design enables a choice of system configurations
- Storage and recall of pulse parameters used in the previous 100 experiments.
- Output Voltage : 10-3000 V
- Capacitance: 10-500 V, 25-3275 uF in 25uF increments.  
200-3000V, 10, 25, 50 uF.
- Resistance (Parallel): 50-1,000ohm in 50ohm increments, plus infinity
- 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 interval; 500-3,000V: Pulse length 0.05-5ms duration in 0.05 ms increments, 1-2 pulses, 5 sec minimum interval

No other supplier or manufacturer can provide the same combination of specifications & features in one system and is only manufactured and supplied by Bio-Rad laboratories, USA or any representative authorized by Bio-Rad laboratories.

Patricia Gee  
Regulatory Affairs Representative

*Patricia Gee*

*[Handwritten Signature]*



डॉ. अनुश्री गुप्ता/Dr. Anushree Gupta  
अपरा आचार्य एवं अध्यक्ष Additional Professor & Head  
जैव प्रौद्योगिकी विभाग  
Department of Biotechnology  
अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-29  
National Institute of Biotechnology, New Delhi-29

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**Bio-Rad**  
**Laboratories (India) Private Limited**  
(A wholly owned subsidiary)

Registered & Head Office:  
9<sup>th</sup> Floor, Tower-A, EMAAR Digital Greens,  
Sector-61, Golf Course Extension Road  
Gurugram-122102, Haryana, INDIA.  
Tel.: +91-124-4029300  
E-mail : sales.india@bio-rad.com  
Tech Support : 1800-183-1224, 09873177477  
www.bio-rad.com



GST No. : 06AAACB3202A1ZR  
CIN No.: U32109HR1996PTC107956

Ref. no.: LSG/N/24/0167  
Date: 04<sup>th</sup> April 2024

To  
The Head  
Department of Biotechnology  
All India Institute of Medical Sciences  
Ansari Nagar, New Delhi - 110029

**Subject: Authorization to supply Bio-Rad's products.**

**Ref.: Quotation No. 193323 dt. 01.04.2024.**

Dear Sir,

We, **Bio-Rad Laboratories (India) Private Limited**, having its registered office and corporate office at 9<sup>th</sup> Floor, Tower A, EMAAR Digital Greens, Sector 61, Gurugram – 122 102, Haryana, are a subsidiary of Bio-Rad Laboratories, Inc., having its office at 1000, Alfred Nobel Drive, Hercules, California 94547, United States of America. Our parent company is a proven and reputable manufacturer of diagnostics instruments and reagents having manufacturing facilities at United States of America, France and Switzerland.

We herewith authorize **Genetix Biotech Asia Pvt Ltd.**, having its office at **71/1 Shivaji Marg, Najafgarh Road, New Delhi-110015**, to quote, supply and raise invoice for our life sciences product range to your esteemed institute for the above-mentioned tender no.

We assure you that in the event we replace our dealer/authorized distributor, we will continue to provide all the product(s) and service(s) as assured in the above-mentioned tender document and are also as required by the Principal, as the case may be, through our new dealer/authorized distributor or directly, as may be required.

Thanking you and assuring our best services always.

Your faithfully,

For **Bio-Rad Laboratories (India) Private Limited**  
**Nitin Sharma**  
Nitin Sharma  
Manager LSG – India

Digitally signed by Nitin  
Sharma  
Date: 2024.04.04  
15:26:52 +05'30'

For **Bio-Rad Laboratories (India) Private Limited**  
**Rohan Jhusiwala**  
Rohan Jhusiwala  
Legal Counsel – India

Digitally signed by  
Rohan Jhusiwala  
Date: 2024.04.05  
17:51:57 +05'30'



BIO-RAD is a trademark in India.

Dr. Anushree Gupta  
Head  
Department of Biotechnology  
All India Institute of Medical Sciences, New Delhi-20

Quantity - 2 NO

Rs. 20.00 Lakhs (5)

**SPECIFICATIONS FOR ELECTROPORATION SYSTEM**

1. Modular electroporatorsystem having design for the choice of system configurations, should come with main unit, Eukaryotic module and Prokaryotic module, ShockPod cuvette chamber with Exponential and Square wave pulse generator for all kind of eukaryotic and prokaryotic cells.
2. Pulse trac Circuitry and arc protection for reproducibility and sample protection Choice of programs for manual operations, preset protocols, user protocols, an optimization protocols in both exponential and square wave forms.
3. System should be open to deliver plasmid DNA, siRNA and other molecules in both eukaryotic and prokaryotic cells.
4. User friendly digital interface with intuitive programming controls all parameters including those from accessory modules.
5. Storage of up to 144 programs.
6. Should have Storage and recall of pulse parameters used in the previous 100 experiments.
7. Output voltage:10 – 3000V
8. Capacitance: 10-500V, 25-3275 uF in 25 uF increments, 500- 3000V, 10, 25, 50 uF
9. Resistance: 50 – 1000 ohm, in 50ohm increments, plus infinity
10. Sample Resistance: 20ohm minimum at 10- 2500 V, 600 ohm at 2500 – 3000 V
11. Square Wave timings:10-500V, 0.05 – 100 ms pulse length, 1-10 pulses, 0.1-10 sec pulse interval, 500-3000 V, 0.05-5ms pulse length, 1-2 pulse, 5-30 sec pulse interval.
12. Operating Temperature: 3.5 – 35 dec C, humidity 0-95%
13. Regulatory safety EN 610610, EMC EN 61326 Class A
14. Should come with atleast 50 cuvette each of 1mm, 2mm & 4mm and electroporation buffer of the same OEM/Make.
15. System should come with 1 KVA online UPS
16. Warranty – 5 years

V. B. R. S.

Anushree Gupta

S. S. Chauhan



डॉ. एस.एस. चौहान/Dr. S.S. Chauhan  
आचार्य एवं अध्यक्ष/Professor & Head  
जैव प्रौद्योगिकी विभाग  
Dept. of Biotechnology  
अ. भा. आ. सं., अंसासी नगर, नई दिल्ली-29  
A.I.I.M.S., Ansari Nagar, New Delhi-29

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डॉ. अनुश्री गुप्ता/Dr. Anushree Gupta  
अपर आचार्य एवं अध्यक्ष/Additional Professor & Head  
जैव प्रौद्योगिकी विभाग  
Department of Biotechnology  
अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-29  
All India Institute of Medical Sciences, New Delhi-29



GENETIX BIOTECH ASIA PVT. LTD.  
71/1, 1st floor, Shivaji Marg  
New Delhi - 110 015  
Ph: +91+11-45027000, Fax: +91-11-25419631  
Email: info@genetixbiotech.com  
Web: www.genetixbiotech.com

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To  
The Director,  
AIIMS (All India Institute of Medical Sciences),  
Ansari Nagar, New Delhi - 110029

Date : 02.04.2024

Subject : Fall Clause Certificate Regarding Lowest Quoted Rates Against **Quotation Number: 193323**

Dear Sir / Mam,

We M/s **Genetix Biotech Asia Private Limited** corporate office at 71/1, Shivaji Marg, New Delhi-110015, India, hereby certify that the rates are provided, our best rates and we have not given these materials to any Government Department/PSU/Institution for lesser than the rates in the last one year.

Thanking you and assuring you of our best possible services and attention always.

Thanks & Best Regards,



Authorized Signatory  
**Genetix Biotech Asia Pvt. Ltd.**  
71/1, Shivaji Marg, Najafgarh Road,  
New Delhi-110015

  
**डॉ. अनुश्री गुप्ता/Dr. Anushree Gupta**  
अपर आचार्य एवं अध्यक्ष/ Additional Professor & Head  
जैव प्रौद्योगिकी विभाग  
Department of Biotechnology  
अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-29  
All India Institute of Medical Sciences, New Delhi-29



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<https://twitter.com/@genetixbiotech1>



<https://in.linkedin.com/in/genetixbiotech>



**Bio-Rad**  
**Laboratories (India) Private Limited**  
 (A wholly owned subsidiary)

EMAAR Digital Greens, 9th Floor,  
 Tower A, Sector-61, Golf course extension,  
 Gurugram -122102  
 Tel. : (91)-124-4029300  
 Email : sales.india@bio-rad.com  
 Tech Support : 1800-103-1224, 09873177477  
 www.bio-rad.com  
 GST No.: 06AAACB3202A1ZR



ISO 9001:2015  
 www.tuv.com  
 ID: 9106077113

Registered Office: Plot No. 1270 Basement, Lal Dora, Village Kapashera,  
 Opposite Fun-Food Village, New Delhi - 110037. Tel: 91-11-25065913  
 CIN No.: - U3210+DL1996PTC078494. GST No.: 07AAACB3202A1ZP

### Declaration of local content

Date: April 25, 2024

To  
 The Head  
 Department of Biotechnology  
 All India Institute of Medical Sciences  
 Ansari Nagar, New Delhi - 110029

Ref.: SMI Quotation No. 193323 dt. 01.04.2024.

Dear Sir,

As per the Public Procurement (Preference to Make in India), Order 2017 available on website of the Department for Promotion of Industry and Internal Trade at <http://dipp.gov.in>, the bidder is required to submit a self-declared certificate about the percentage of local content available in its product. Accordingly, we are declaring the following as required in your tender:

Sr. no.	Name of item	% of local content of value addition	Location at which value addition is made	*Status of the bidder	The manner in which the value addition has been done in the product
1.	Gene Pulser Xcell™ Total System	25%	9 <sup>th</sup> Floor, Tower A, EMAAR Digital Greens, Sector 61, Gurugram – 122 102, Haryana & Door No 116, Portion-1, Devaneri Village Road, Sholavaram Village, Chennai-600067	Active	Class-II

We are aware that the bidders offering imported products will fall under the category of Non Local suppliers. They can't claim themselves as Class-I/II local supplier by claiming profit, warehousing, marketing, logistics, freight etc. as local value addition.

Your faithfully

For **Bio-Rad Laboratories (India) Private Limited**  
 Digitally signed by Nitin Sharma  
 Date: 2024.04.25 14:08:35 +05'30'

Nitin Sharma  
 Business Head- India | Life Science Group

For **Bio-Rad Laboratories (India) Private Limited**

DocuSigned by:  
 Rohan Jhusiwala  
 EF5A7009199A4CE...  
 Rohan Jhusiwala  
 Legal Counsel – India

BIO-RAD is a trademark in India.

Dr. Anushree Gupta / Dr. Anushree Gupta  
 अपर आचार्य एवं अध्यक्ष / Additional Professor & Head  
 जैव प्रौद्योगिकी विभाग  
 Department of Biotechnology  
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 All India Institute of Medical Sciences, New Delhi-29

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New Delhi - 110 015

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Email: info@genetixbiotech.com

Web: www.genetixbiotech.com

## LAND BORDER DECLARATION

Date: 02.04.2023

To  
The Director,  
AIIMS (All India Institute of Medical Sciences),  
Ansari Nagar, New Delhi - 110029

**Subject: Land Border declaration for AIIMS Delhi**  
**Quotation Number: 193323 dated: 01.04.2024**

Dear Sir,

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I certify that we, are not from a country which shares a land border with India. I hereby certify that we fulfil all requirements in this regard and are eligible to be considered.



Authorized Signatory  
Genetix Biotech Asia Pvt Ltd.



डॉ. अनुश्री गुप्ता/Dr. Anushree Gupta

अपर प्राचार्य एवं अध्यक्ष/ Additional Professor & Head

जैव प्रौद्योगिकी विभाग

Department of Biotechnology

आखिल भारतीय आधुनिकीयन संस्थान, नई दिल्ली-29  
All India Institute of Medical Sciences, New Delhi-29



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<https://in.linkedin.com/in/genetixbiotech>



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71/1, 1st floor, Shivaji Marg

New Delhi - 110 015

Ph: +91+11-45027000, Fax: +91-11-25419631

Email: info@genetixbiotech.com

Web: www.genetixbiotech.com

Annexure - 1.

## List of Consumables

To  
The Director,  
AIIMS (All India Institute of Medical Sciences),  
Ansari Nagar, New Delhi - 110029

**Subject: List of Consumables for AIIMS Delhi**  
**Quotation Number: 193323 dated: 01.04.2024**

Dear Sir,

Please find the below List of Consumables along with Prices for your ready reference.

Catalogue Number	Description	Price	GST
1652083	MINIPACK GPII CUVETTE,0.1CM,5	₹ 2,070.00	18%
1652082	MINIPACK GPII CUVETTE,0.2CM,5	₹ 2,070.00	18%
1652081	MINIPACK GPII CUVETTE,0.4CM,5	₹ 2,070.00	18%
1652088	CUVETTES 4MM PKG 50 STERILE	₹ 16,725.00	18%
1652086	CUVETTES 2MM PKG 50 STERILE	₹ 16,725.00	18%
1652089	CUVETTES 1MM PKG 50 STERILE	₹ 16,725.00	18%
1652091	GENEPULSER CUVETTE,0.4CM,500PK	₹ 1,39,675.00	18%
1652092	GENEPULSER CUVETTE,0.2CM,500PK	₹ 1,39,675.00	18%
1652093	GENEPULSER CUVETTE,0.1CM,500PK	₹ 1,39,675.00	18%



Authorized Signatory



डॉ. अंशुश्री गुप्ता/Dr. Anushree Gupta

अपर अतिरिक्त प्राध्यापक Additional Professor & Head

जैव प्रौद्योगिकी विभाग

Department of Biotechnology

अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-29  
All India Institute of Medical Sciences, New Delhi-29



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<https://twitter.com/@genetixbiotech1>



<https://in.linkedin.com/in/genetixbiotech>

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**ALL INDIA INSTITUTE OF MEDICAL SCIENCES  
ANSARI NAGAR, NEW DELHI-110029**

**PROPRIETARY/SPECIFICGOODS CERTIFICATE**

1. Item/Type/Model No. required : **Electroporation System (Gene Pulser Xcell Total System)**
2. Is the item a spare parte attachment or accessory for an existing equipment. : **No**
3. Name of the manufacturers/supplier : **M/s. Bio-Rad Laboratories, Inc., California**
4. Are they sole manufacturers/sold distributors of the item. : **Yes,**
5. Is there any other item with similar/ equivalent specification available in the Market to meet the job requirement envisaged. If the answer is yes, why the same can't be procured. Demanding officer should bring out comparative functional advantages/cost effectiveness of the recommended item from these offered by other. : **Not available to the best of our Knowledge**
6. What were the efforts made the locate other substitutes. : **Through net search and local dealers**
7. Why open/limited tender can't be Resorted to for locating alter native source. : **Because Goods is proprietary item**
8. Are the proprietary items certifying certificate that the rates are reasonable or not. : **Rates are reasonable proprietary enclosed**
9. Any other justification for procuring : **Item most suitable for research work.**

*[Signature]*  
**Signature of Indentor  
(Demanding Officer)**

**Dr. Anushree Gupta**  
अपर आचार्य एवं अध्यक्ष Additional Professor & Head  
जैव प्रौद्योगिकी विभाग  
Department of Biotechnology

**COUNTERSIGNED  
(Head of the Department)**

I certify that the item at Sr. No. 1 above is required to be procured on single tender basis as the source of subbly is definitely known/the specified brand proposed was advertages in meeting our functional requirement and limited tender system could be dispensed with as they would serve no useful purpose in this particular case.

(Strike out whichever in not applicable)

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To  
The Director  
AIIMS, New Delhi

Quotation Reference : 193323 dated 01<sup>st</sup> April, 2024

Dear Sir,

We are pleased to submit like to like comparison against above Quotation Number

Like to Like Price comparison						
Cat No.	Item Name	Quantity	Genetix Quote	University of Delhi, South Campus	The Energy & Resource Institute (TERI)	Central Tasar Research and Training Institute
			Unit Price	Unit Price	Unit Price	Unit Price
1652660	GenePulserXcell Total System	1	Quoted	Quoted	Quoted	Quoted
	Base Price (Without GST)	1	₹ 10,80,000.00	₹ 10,58,900.00	₹ 9,83,000.00	₹ 10,29,588.00
	Warranty (Included in Base Price)		5 Years	1 Years	2 Years	1 Year
	Additional Warranty@					
	Basic Price		₹ 10,80,000.00	₹ 10,58,900.00	₹ 9,83,000.00	₹ 10,29,588.00
	Accessories					
	GenePulser Cuvettes-0.1cm gap, 0.2cm gap, 4mm (50/Pk)		₹ 50,175.00	NA	NA	NA
	Third Party Item					
	1 KVa Online UPS		₹ 27,000.00	NA	NA	NA
	Total Price (with 18% GST)		₹ 13,65,466.00	₹ 12,49,502.00	₹ 11,59,940.00	₹ 12,14,914.00

Note: We have quoted the best price to your esteem institute with 5 Year warranty.

Thanks & Regards

Authorised Signatory



*Handwritten signature*

*Handwritten initials*

डॉ. अनुश्री गुप्ता/Dr. Anushree Gupta  
अपर आचार्य एवं अध्यक्ष/ Additional Professor & Head  
जेव प्रौद्योगिकी विभाग  
Department of Biotechnology  
अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-29  
All India Institute of Medical Sciences, New Delhi-29





## UNIVERSITY OF DELHI

Centre for Innovation in Infectious Disease Research, Education and Training  
University of Delhi South Campus  
Benito Juarez Road, New Delhi 110021  
Tel: 24115883

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UNIVERSITY OF DELHI GST Number - 07AAAGU0114N3Z8

Ref. UDSC/CIIDRET/AG/1296

Dated 25 July 2023

M/s ATCG INDIA  
A-206, 2<sup>nd</sup> Floor, Spectrum Tower,  
BDI Sunshine City, Bhiwadi – 301019  
Rajasthan, India

Dear Sir,

With reference to your **Quotation No. ATCG/23-24/OFF/143R dated 07.06.2023**. Please arrange to supply the following and send your pre-receipted bill (in duplicate) addressed to **Dr. Amita Gupta, CIIDRET, University of Delhi South Campus, Benito Juarez Road, New Delhi-110021**, after completion of supply as per order.

Description and specification	Qty. Reqd.	Unit Price	Amount (INR)
Electroporation System for Bacterial and Mammalian Transfection GenePulser Microbial Module with Accessories Cat No 165-2662 <u>Make: Bio-Rad</u>	01	10,58,900/-	10,58,900.00

<b>Total</b>	<b>10,58,900.00</b>
<b>Add IGST @ 18%</b>	<b>1,90,602.00</b>
<b>Grand Total incl GST @ 18%</b>	<b>12,49,502.00</b>

The material should be delivered at the following address:

**Prof. Amita Gupta**  
CIIDRET, First floor engineering building,  
University of Delhi South Campus, New Delhi-110021



Yours faithfully,

**Prof. Amita Gupta**

**Dr. Amita Gupta, Ph.D.**  
Professor  
Department of Biochemistry  
University of Delhi South Campus  
New Delhi-110021

**डॉ. अनुश्री गुप्ता/Dr. Anushree Gupta**  
अपर प्राचार्य एवं अध्यक्ष/ Additional Professor & Head  
जैव प्रौद्योगिकी विभाग  
Department of Biotechnology  
अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-29  
All India Institute of Medical Sciences, New Delhi-20

# The Energy and Resources Institute

Darbari Seth Block, Habitat Place, Lodhi Road, New Delhi - 110003  
Delhi, INDIA

Tel. 2468 2100/2468 2111  
E-mail manoj.tiwari@teri.res.in  
Fax 2468 2144/2468 2145  
Code - City:11 ; Country: 91  
GST No: 07AAATT2841E12P

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## Purchase Order

Order No. : <b>TDL / 202300883</b>	Quotation Ref No 190037	Reverse Charges : No
Order Date : <b>07 November 2023</b>	Quotation Date : 07-NOV-23	Deliver By : 07 February 2024
<b>To</b> Genetix Biotech Asia Pvt. Ltd.[L0624] 71/1, First Floor, Najafgarh Road, New Delhi 110015  9871201440, 45027000 info@genetixbiotech.com, rambhajan@genetixbiotech.com Delhi GSTIN: 07AABCG4572B1ZY	<b>Ship To</b> Dr Sanjukta Subudhi / Mr. N Ramkumar TERI Gram, Gwal Pahari, PO Samasthipur, Gurugram-Faridabad Road, Gurugram Tel : E-Mail:  <b>Bill To</b> The Energy and Resources Institute Darbari Seth Block, Habitat Place, Lodhi Road, New Delhi - 110003 Delhi, INDIA	

Please supply the following items as per the terms and conditions mentioned below and also on the reverse, which are an integral part of this purchase order.

Currency : RS

No.	Material and Specifications	HSN/SAC Code	Qty	Unit	Rate	Rate + other charges	Dis	Taxable Value	CGST	SGST	IGST	Total Amount*
1	Cuvettes, Gene Pulser Micro Pulser Electroporation, 0 point 1 gap, Product no 1652089, 50 pkt[LC08159]	85439000	1	No	0	0.00	0	0	9	9	0	0.00
2	GENE PULSER X Cell Total System 100 240 50 60 Hz, Product code 1652660, BIORAD make, Genetix Biotech Asia[EQ04174]	90278090	1	No	983000	983000.00	0	983000	9	9	0	1159940.00

<b>Total Amount In words</b> RS Eleven Lakh Fifty Nine Thousand Nine Hundred Forty Only	<b>Total Amount Before GST*:</b> 983000.00
<b>Remarks</b> Materials will be received from Monday to Friday between 2.00 PM to 4.30 PM. Payment within 30 days of receipt of materials	<b>CGST</b> 88470.00 <b>SGST</b> 88470.00 <b>IGST</b> 0.00 <b>GST Amount</b> 176940.00 <b>Total Amount After Tax in RS</b> 1159940.00
<b>Special Instructions</b> Warranty two years from the date of installation.	<b>* This Include Other Charges as below :-</b> Freight : 0 Packing : 0 Handling : 0 Insurance : 0
PR No 202300834 Proj Code: 2022AB26 Indentor(s) N, Ramkumar(2716) Processed BY :- Mr C Uikkattan	

Head-Materials  
Authorised Signatory

Original invoice should be sent to the Materials department only.

F/MAT/05

*Rambhajan*

*Dr. Anushree Gupta*

डॉ. अनुश्री गुप्ता/Dr. Anushree Gupta  
अपर आचार्य एवं अग्र्य/Additional Professor & Head  
जैव प्रौद्योगिकी विभाग  
Department of Biotechnology  
अखिल भारतीय आयुर्विज्ञान संस्थान, लोधी रोड-29  
All India Institute of Medical Sciences, New Delhi-29



## अनुबंध | Contract



अनुबंध क्रमांक | Contract No: GEMC-511687706290285

अनुबंध तिथि | Generated Date : 26-Mar-2024

बोली/आरए/पीबीपी संख्या | Bid/RA/PBP No.: GEM/2024/B/4417880

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<b>संगठन विवरण   Organisation Details</b> प्ररूप   Type : Central Autonomous मंत्रालय   Ministry : Ministry of Textiles विभाग   Department : NA संगठन का नाम   Organisation Name : Central Tasar Research and Training Institute Ranchi कार्यालय क्षेत्र   Office Zone: Ranchi, Jharkhand		<b>खरीदार विवरण   Buyer Details</b> पद   Designation : Assistant Supdt संपर्क नंबर   Contact No. : 0651-2775823- ईमेल आईडी   Email ID : suhail.csb@gov.in जीएसटीआईएन   GSTIN : - पता   Address : CENTRAL TASAR RESEARCH AND TRAINING INSTITUTE, PISKA-NAGRI, RANCHI, RANCHI, JHARKHAND-835303, India				
<b>वित्तीय स्वीकृति विवरण   Financial Approval Detail</b> आईएफडी सहमति   IFD Concurrence : No प्रशासनिक अनुमोदन का पदनाम   Designation of Administrative Approval: Director वित्तीय अनुमोदन का पदनाम   Designation of Financial Approval : Director		<b>भुगतान प्राधिकरण विवरण   Paying Authority Details</b> Role: PAO भुगतान का तरीका   Payment Mode: Internet Banking पद   Designation : Deputy Director stores ईमेल आईडी   Email ID : ddo3.ctrtirj.jh@gembuyer.in जीएसटीआईएन   GSTIN : - पता   Address : CENTRAL TASAR RESEARCH AND TRAINING INSTITUTE, PISKA-NAGRI, RANCHI, RANCHI, JHARKHAND-835303, India				
<b>विक्रेता विवरण   Seller Details</b> जेम विक्रेता आईडी   GeM Seller ID : 5ADF180000101727 कंपनी का नाम   Company Name : GENETIX BIOTECH ASIA PRIVATE LIMITED संपर्क नंबर   Contact No. : 09911968265 ईमेल आईडी   Email ID : accounts@genetixbiotech.com पता   Address : C-88, KIRTI NAGAR, NEW DELHI, New DELHI-110015, - एमआईआई स्थिति   IIL Status : True एमएसएमई सत्यापित   MSME verified : No एमएसएमई पंजीकरण संख्या   MSME Registration number : - जीएसटीआईएन   GSTIN: 07AABCG4572B1ZY						
*जिसके नाम के पक्ष में GST/TAX इनवॉइस पेश किया जाएगा   GST / Tax invoice to be raised in the name of - Buyer						
<b>वितरण निर्देश   Delivery Instructions : NA</b>						
<b>उत्पाद विवरण   Product Details</b>						
#	आइटम विवरण   Item Description	आइटम विवरण   Ordered Quantity	इकाई   Unit	इकाई मूल्य (INR)   Unit Price (INR)	कर विभाजन (INR)   Tax Bifurcation (INR)	मूल्य (INR में सभी शुल्क और कर सहित)   Price (Inclusive of all Duties and Taxes in INR)
1	उत्पाद का नाम   Product Name : GENE PULSER XCELL TOTAL SYSTEM ब्रांड   Brand : BIO RAD ब्रांड प्रकार   Brand Type : Registered Brand कैटलॉग की स्थिति   Catalogue Status: Catalogue not verified by OEM कैसे बेचा जा रहा है   Selling As : Reseller not verified by OEM श्रेणी का नाम और चतुर्थांश   Category Name & Quadrant : GENE PULSER XCELL TOTAL SYSTEM (Q3) मॉडल   Model: 1652660 एचएसएन कोड   HSN Code: HSN not specified by seller	1	pieces	1,214,914	NA	1,214,914
कुल ऑर्डर मूल्य   Total Order Value (in INR)						1,214,914
<b>परोपिती विवरण   Consignee Detail</b>						
क्र.सं.   S.No	परोपिती   Consignee	वस्तु   Item	लॉट नंबर   Lot No.	मात्रा   Quantity	दिनांक के बाद डिलीवरी शुरू करना है   Delivery Start After	वितरण पूरा कब तक करना है   Delivery To Be Completed By
	डॉ. अनुश्री गुप्ता / Dr. Anushree Gupta पद   Designation : Additional Professor & Head जैव प्रौद्योगिकी विभाग Department of Biotechnology अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-29 All India Institute of Medical Sciences, New Delhi-20					

1	ईमेल आईडी   Email ID : con1.crrtrj.jh@gembuyer.in संपर्क   Contact : - जीएसटीआईएन   GSTIN : N पता   Address : CENTRAL TASAR RESEARCH AND TRAINING INSTITUTE, PISKA-NAGRI, RANCHI, RANCHI, JHARKHAND-835303, India	GENE PULSER XCELL TOTAL SYSTEM	1	26-Mar-2024	10-Apr-2024 <b>19</b>
Product Specification for GENE PULSER XCELL TOTAL SYSTEM					
विनिर्देश   Specification		उप-विनिर्देश   Sub-Spec		मूल्य   Value	
Custom Specification		Custom Specification		Yes	
विक्रेता विशिष्टता दस्तावेज़   Seller Specification Document:					
1. <a href="#">SpecificationDocument1</a>		<a href="http://mkp.gem.gov.in/catalog_data/catalog_support_document/48/75/804/CatalogAttrs/SpecificationDocument/2024/1/20/2024_01_20_10_50_00_1652660_unlocked_-1_2024-01-20-10-50-02_92d53987babe87069c5e99ac871a0aeb.pdf">mkp.gem.gov.in/catalog_data/catalog_support_document/48/75/804/CatalogAttrs/SpecificationDocument/2024/1/20/2024_01_20_10_50_00_1652660_unlocked_-1_2024-01-20-10-50-02_92d53987babe87069c5e99ac871a0aeb.pdf</a>			
खरीदार विशिष्टता दस्तावेज़   Buyer Specification Document:					
1. <a href="#">SpecificationDocument</a>		<a href="http://mkp.gem.gov.in/catalog_data/catalog_support_document/buyer_documents/396526/54/78/703/CatalogAttrs/SpecificationDocument/2024/1/1/specification_for_electroporator_2024-01-01-00-56-52_07b07718bd99a7b0021298a348c64369.pdf">mkp.gem.gov.in/catalog_data/catalog_support_document/buyer_documents/396526/54/78/703/CatalogAttrs/SpecificationDocument/2024/1/1/specification_for_electroporator_2024-01-01-00-56-52_07b07718bd99a7b0021298a348c64369.pdf</a>			
शुद्धिपत्र   Corrigendum					
1. तक बढ़ाया गया   Extended Upto : 2024-02-02 12:00:00 2. तक बढ़ाया गया   Extended Upto : 2024-02-07 12:00:00					
ईपीबीजी विवरण   ePBG Detail					
सलाहकार बैंक   Advisory Bank :				NA	
ईपीबीजी प्रतिशत (%)   ePBG Percentage(%):				NA	
नियम और शर्तें   Terms and Conditions					
<b>1. General Terms and Conditions-</b> 1.1 This contract is governed by the <a href="#">General Terms and Conditions</a> , conditions stipulated to this Product/Service as provided in the Marketplace. 1.2 This Contract between the Seller and the Buyer, is for the supply of the Goods and/ or Services, detailed in the schedule above, in accordance with the General Terms and Conditions (GTC) unless otherwise superseded by Goods / Services specific Special Terms and Conditions (STC) and/ or BID/Reverse Auction Additional Terms and Conditions (ATC), as applicable <b>2. Buyer Added Bid Specific Terms and Conditions-</b> <b>2.1 Generic</b> OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly. <b>2.2 Scope of Supply:</b> Scope of supply (Bid price to include all cost components) : Supply Installation Testing Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any) <b>2.3 Service &amp; Support:</b> Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre. <b>2.4 Service &amp; Support:</b> Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.					
नोट यह सिस्टम जनरेटेड फाइल है। कोई हस्ताक्षर की आवश्यकता नहीं है। इस दस्तावेज़ का प्रिंट आउट भुगतान/लेनदेन उद्देश्य के लिए मान्य नहीं है। Note: This is system generated file. No signature is required. Print out of this document is not valid for payment/ transaction purpose.					

*Handwritten signature*

  
**डॉ. अनुश्री गुप्ता/Dr. Anushree Gupta**  
 अपर आचार्य एवं अध्यक्ष/Additional Professor & Head  
 जैव प्रौद्योगिकी विभाग  
 Department of Biotechnology  
 अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-29  
 All India Institute of Medical Sciences, New Delhi-29




## TERMS AND CONDITIONS

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1. MATERIAL: All goods are to be supplied in accordance with description/specification given. No deviation from specifications is permitted without our approval in writing.
2. PRICE: Prices quoted by suppliers and accepted by the Institute are final and no deviation therefrom will be accepted without our specific agreement in writing.
3. DELIVERY: The time quoted for completion is to be strictly adhered to. The order is liable to cancellation if delivery is not effected by the specified date.
4. INSPECTION: We reserve the right to inspect the goods on this order but such inspection does not relieve the suppliers of their responsibility for defects in materials and/ or workmanship and for delivery of the goods in accordance with the specifications given. Goods rejected shall be removed by the supplier at supplier's own expense within 15 days of our intimation.
5. DESTINATION: Please note the destination of the material. Demurrage or other expenses incurred owing to the supplier not complying with our instructions will be on the supplier's account and shall be deducted from the invoice before payment.
6. FREIGHT: Rail, air, road freight should be pre-paid by the supplier and included in their bill to us along with the necessary supporting documents. The RRs/Way Bills must be mailed direct to the consignee.
7. AIR CONSIGNMENT: In case of dispatch by air the dispatch particulars such as Consignment Note No./Airway Bill No./Flight Name and No./actual invoice value, etc. must be communicated to us immediately by fax/e-mail.
8. CHALLANS: Challans in triplicate should be submitted on delivery of materials or sent along with RRs/ Way Bill. One copy will be returned after acknowledgement of receipt of materials and the others will be retained by the consignee.
9. LOCAL DELIVERY: Delivery of material should invariably be given to the Store Keeper during the prescribed time and signature should be obtained on challans to facilitate payment of bills.
10. INVOICES: Pre-receipted Bills in triplicate should be submitted to Materials Department.
11. TRANSIT RISK: Transit risk for materials by rail, road or otherwise will be on supplier's account. The supplier will directly lodge any claim and receive the costs from transporter, insurance company, etc. The Institute will make payment against bills only on receipt of materials in good condition.
12. JURISDICTION: Delhi
13. ARBITRATION: All disputes of differences whatsoever arising between the parties out of or relating to the construction, meaning and operation or effect of this contract or the breach thereof shall be settled by arbitration in accordance with Rules of Arbitration of the Indian Council of Arbitration and the award made in pursuance thereof shall be binding on the parties.
14. PERSONAL ENQUIRIES REGARDING PAYMENT: As a rule, personal enquiries regarding payment are discouraged. However, if any enquiries are to be made, they will be entertained by our Accounts Department on working days from Monday to Friday between 2.00pm and 4.30pm only.
15. PAYMENT: Within 30 days after submission of pre receipted bills in triplicate rounded off to the nearest rupee. Part bills may not be entertained, Challans should be sent in triplicate.
16. ENQUIRIES: Please quote the purchase order number and date on all challans, invoices, and correspondences.
17. PENALTY: Penalty @ 1% per week subject to a maximum of 10% of the order value shall be applicable on all deliveries made after due date.
18. GURANTEE/ WARRANTY: All equipment/material with all accessories shall be guaranteed against the operational failure or deficiency in output due to design or mechanical failure due to faulty materials or bad workmanship for a minimum period of 12 months from the date of Installation.
23. AMC INVOICES: AMC Invoices shall be submitted to Materials department along with copy of service report duly signed by the service engineer and TERI representative for releasing payment. Payments are released within the AMC period or as agreed by both the parties in writing.

Handwritten signature: *Handwritten signature*

Handwritten initials: *Handwritten initials*


**डॉ. अनुश्री गुप्ता/Dr. Anushree Gupta**  
 अपर आचार्य एवं अध्यक्ष/ Additional Professor & Head  
 जैव प्रौद्योगिकी विभाग  
 Department of Biotechnology  
 अखिल भारतीय आयुर्विज्ञान संस्थान, नई दिल्ली-29  
 All India Institute of Medical Sciences, New Delhi-29





**GENETIX BIOTECH ASIA PVT. LTD.**  
 9/54, Industrial Area Kirti Nagar, New Delhi-110015,INDIA

Website: www.genetixbiotech.com  
 E-mail: info@genetixbiotech.com  
 Phone- 011- 4502 7000

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**SALES QUOTATION**

**All India Institute Of Medical Sciences**  
 The Head  
 Department of Biotechnology  
 All India Institute of Medical Sciences  
 Ansari Nagar, New Delhi - 110029  
 IN  
**KIND ATTENTION**  
**Customer GSTIN No:** 07AAATA4049H1ZY  
 Company's GSTIN No. 07AABCG4572B1ZY  
 Company's TIN No. 07300252410  
 Company's PAN No. AABCG4572B

Doc No.	193323
Date	01-April-2024
Customer No.	Email
Valid Date	01-May-2024
Dispatch Through	
Destination	
Payment Term	Against Delivery
Delivery	7-8 Weeks
Warranty	5 Year
<b>Place of Supply</b>	<b>07-Delhi</b>

S. No.	Product Code	Product Description	Qty.	UOM	Unit Rate (INR)	Disc.%	Vendor Name	Taxable Value	CGST		SGST	
									Rate	Amount	Rate	Amount
1	1652660	Gene Pulsar Xcell™ Total System, 100/240 V, 50/60 Hz HSN # 90278090 Group - Instruments & Equip.	2	no	1,080,000.00		Bio-Rad Laboratories (India) Pvt Ltd	2,160,000.00	9%	194,400.00	9%	194,400.00
2	1652086	Gene Pulsar®/MicroPulsar™ Cuvettes, 0.2 cm gap, 50/pack HSN # 90279090 Group - Plastic ware	2	No	16,725.00		Bio-Rad Laboratories (India) Pvt Ltd	33,450.00	9%	3,010.50	9%	3,010.50
3	1652089	Gene Pulsar®/MicroPulsar™ Electroporation Cuvettes, 0.1 cm gap, 50/ PK HSN # 85439000 Group - Plastic ware	2	PK	16,725.00		Bio-Rad Laboratories (India) Pvt Ltd	33,450.00	9%	3,010.50	9%	3,010.50
4	1652088	CUVETTES 4MM PKG 50 STERILE HSN # 85439000 Group - Plastic ware	2	kt	16,725.00		Bio-Rad Laboratories (India) Pvt Ltd	33,450.00	9%	3,010.50	9%	3,010.50
5	UPS	Online UPS 1 KVA with 30 Min HSN # 85049090 Group - Instruments & Equip.	2	No	27,000.00		Misc	54,000.00	9%	4,860.00	9%	4,860.00

<b>Remarks/Special Instructions</b>	<b>Base Value Total</b>	2,314,350.00
	Discount	
	<b>Total After Discount</b>	2,314,350.00
	<b>INTRATA GST TAX</b>	416,583.00
	<b>Others</b>	
	<b>Grand Total INR</b>	<b>2,730,933.00</b>

**Amount (In Words)**

**Twenty Seven Lakhs Thirty Thousand Nine Hundred and Thirty Three rupees only**

**Purchase Order & Draft in Favour of:-**  
 Genetix Biotech Asia (P) Limited  
 71/1 First Floor, Najafgarh Road,  
 New Delhi : - 110015  
 Ph: 011-45027000 (Direct)  
 Ph: 011-45027000 (Board)  
 E-mail:- info@genetixbiotech.com

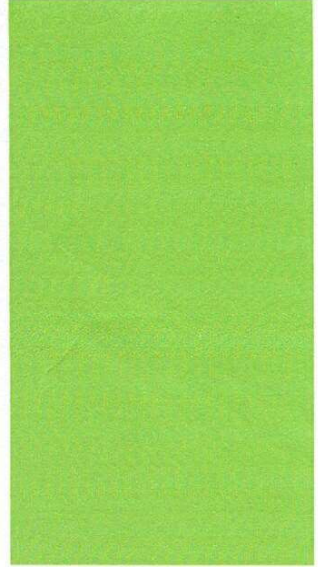
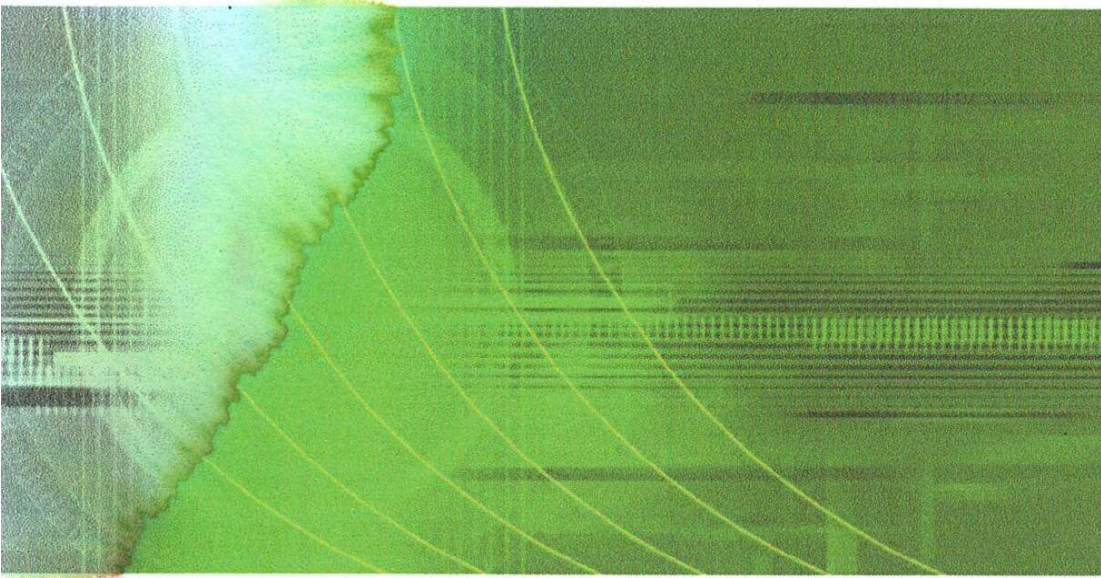
**For Further Assistance:-**  
 Genetix Biotech Asia Pvt Ltd.  
 71/1 First Floor Shiva Ji Marg  
 New Delhi-110015  
 Website: www.genetixbiotech.com  
 E-mail: info@genetixbiotech.com



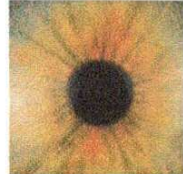
CIN : U24239DL2001PTC112768  
 AN ISO 9001:2008 Certified Company.  
 "No Credit of Special Additional Customs Duty (SAD) is Admissible"  
 SUBJECT TO DELHI JURISDICTION  
 Registered office: C-48 Ground Floor, Kirti Nagar, New Delhi-110015, Ph-41424816, 251123146, Fax-2546737  
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 2nd Floor, Thakker House, Plot No.39, Survey No.502, 503, Vijaya Purli Colony Kapra, Hyderabad-500062 Phone # 040-20585148 Telefax # 040-40161304, 42024387

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Gene Transfer (31)



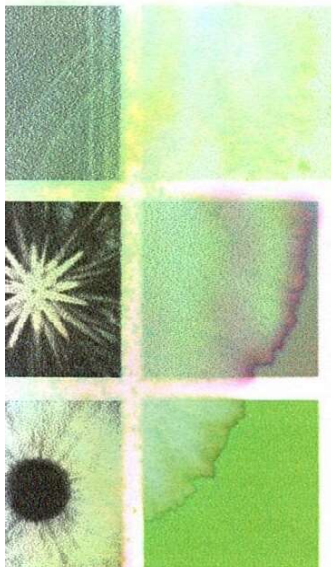
**Electroporation Systems**



Exceptional Systems  
for Exceptional Results



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## Why **Electroporation**?

**Because electroporation is the most popular, most versatile, most efficient transformation method available for gene expression analysis of the widest variety of cell types.**

In 1928 British medical officer Frederick Griffith conducted a series of classic experiments with colonies of rough- and smooth-coated *Streptococcus pneumoniae*. These experiments led Griffith to discover the phenomenon of transformation (the assimilation of exogenous genetic material by a cell) and were an important impetus for subsequent research into the nature of the double helix by Watson and Crick. Since then, by introducing specific genetic sequences into target cells, life science researchers worldwide have exploited the phenomenon of transformation as a valuable tool for evaluating gene expression.

The most versatile and efficient transformation technique is electroporation, which uses accurately pulsed electric currents to induce transient gaps in the phospholipid bilayer of cells. Extracellular genetic material passes through these transient gaps and is assimilated by the target cells' DNA. With careful choice of appropriate pulse time, waveform, and voltage, cell membrane disturbance is minimized, target cell viability is enhanced, and reproducible transformation efficiencies of 80% are routinely achieved. For these reasons, electroporation has become the most popular transformation technique for many cell types.

The Gene Pulser Xcell™ system and the MicroPulser™ electroporator have been cited in hundreds of life science and gene expression research articles. These systems provide a patented arc-quenching design, preoptimized pulse programs for commonly studied bacteria and fungi, storage and recall of pulse parameters for the previous 100 experiments, and a user-friendly interface — and deliver reproducible results every time.

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Electroporation efficiently introduces nucleic acids, siRNA duplexes, and other molecules into numerous cell types. Transiently permeabilized by a square-wave or exponentially pulsed electrical field, cell membranes readily permit exogenous molecules from the surrounding medium to enter the cell. Once inside the cell, these molecules become assimilated into the cellular DNA.

Safely and successfully used to introduce DNA, RNA, siRNAs, proteins, virions, nucleotides, carbohydrates, and even dyes into prokaryotic and eukaryotic cells, electroporation provides both an attractive alternative and a complementary adjunct to lipofection and biolistic methods of transfection.

For more information on transfection and electroporation, or to view our growing list of online protocols, visit us on the Web at [www.bio-rad.com/genetransfer/](http://www.bio-rad.com/genetransfer/)

Choose the system you need.

The **Gene Pulser Xcell system** offers a choice of electrical field waveforms (exponential or square-wave), a choice of system configurations, and a user-friendly interface.

The Gene Pulser Xcell total system (consisting of the main unit, the CE module, the PC module, and the ShockPod™ cuvette chamber) provides full electroporation capability for both eukaryotic and prokaryotic cells.



The **MicroPulser electroporator** is a versatile, easy-to-operate instrument providing reproducible, safe transformation of bacteria, fungi, and other microorganisms.



Gene Pulser Xcell system and MicroPulser electroporator



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## MicroPulser — A Simple Tool for Transformation

### Unique Features of the System

- Faster sample handling — simple one-button pulse delivery, attached cuvette chamber, and rapid charge time
- Rapid program selection — preset programs for commonly studied bacteria and fungi
- Arc-quenching (ARQ) system that reduces arcing, protecting against loss of valuable samples
- Broad range of parameters for manual optimization; manual programming allows voltage to be selected in a 200–3,000 V range with 10 V precision, and pulse width to be adjusted in a 1.0–4.0 ms range with 0.1 ms precision
- 3,000 V capability for improved efficiency in cuvettes with larger volume
- Compact, space-saving design
- Audible and visible pulse indicators
- Display of time constant and actual voltage delivered, to monitor reproducibility

The MicroPulser is a robust, state-of-the-art electroporator that provides safe, efficient, and reproducible transformation of bacteria, fungi, and other microorganisms. Transformation efficiencies much higher than those obtained by chemical methods can be achieved by electroporation. Pulses are easily delivered by choosing a preset program and pushing a button.

### Why Electroporation With the MicroPulser?

#### Efficient

Electroporation is the most efficient bacterial transformation method available. It is orders of magnitude more efficient than chemical methods, and provides results that are more reproducible. The MicroPulser is designed to deliver consistent electrical conditions for electroporation of *E. coli*, fungi, and other microorganisms, resulting in the highest efficiencies possible. The preset programs are tested for commonly studied bacteria and fungi. Voltage and pulse time can be set manually, enabling you to optimize transformation conditions for your experiment.

#### Compact and User-Friendly

The all-in-one design and preset conditions precisely deliver the optimal parameters for bacteria and fungi, established by Bio-Rad and verified in the literature over the years. This allows efficient transformation with minimum effort and time. The small footprint saves valuable bench space.

#### Flexible

You can choose voltages between 200 and 3,000 V, to transform the widest range of microorganisms. By using a larger-capacity cuvette and increasing voltage to maintain the same field strength, you can process large samples and increase your throughput.

#### Programmed Functions

Program	Species	Cuvette Size (cm)	Preset Conditions*
<b>Bacteria</b>			
Ec1	<i>Escherichia coli</i>	0.1	1.80 kV, 1 pulse
Ec2	<i>Escherichia coli</i>	0.2	2.50 kV, 1 pulse
StA	<i>Staphylococcus aureus</i>	0.2	1.80 kV, 1 pulse, 2.5 ms
Agr	<i>Agrobacterium tumefaciens</i>	0.1	2.20 kV, 1 pulse
Ec3	<i>Escherichia coli</i>	0.2	3.00 kV, 1 pulse
<b>Fungi</b>			
Sc2	<i>Saccharomyces cerevisiae</i>	0.2	1.50 kV, 1 pulse
Sc4	<i>Saccharomyces cerevisiae</i>	0.2	3.00 kV, 1 pulse
ShS	<i>Schizosaccharomyces pombe</i>	0.2	2.00 kV, 1 pulse
Dic	<i>Dictyostelium discoideum</i>	0.4	1.00 kV, 2 pulses, 1.0 ms
Pic	<i>Pichia pastoris</i>	0.2	2.00 kV, 1 pulse

\* Unless the pulse time is truncated below 5 ms, the unit will deliver the optimal time constant of ~5 ms to samples in high-resistance media.



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# Gene Pulser Xcell —

## An Exceptional System for Excellent Results

### Unique Features of the System

- Provides both exponential and square waveforms
- Supports electroporation of all cell types, prokaryotic and eukaryotic
- Uses Bio-Rad's patented\* PulseTrac™ circuitry to ensure reproducible results
- Offers value and flexibility for changing research needs because of modular design
- Delivers up to 3,000 V
- Includes the unique ShockPod shocking chamber for one-handed operation

### Programming Capabilities

- User-friendly digital interface for easy, intuitive programming and display of all experimental parameters
- Preset programs for frequently used microbial and mammalian cell lines
- Manual programming, which enables entry or editing of all parameters for exponential or square-wave delivery, or assisted programming using the time constant required
- Optimization protocol that enables the best conditions to be determined using incremental voltage steps
- Delivery parameters given for time constant, actual sample voltage, pulse interval, and pulse time, depending on the waveform chosen
- User method storage for 144 programs
- Storage and recall of pulse parameters and results for previous 100 experiments

\* US patents 4,750,100 and 4,910,140.

The Gene Pulser Xcell is a flexible, modular pulse delivery system that uses exponential or square-wave pulses to deliver the pulses optimal for your cell type.

### Innovative Modular Design for Every Cell Type

The modular Gene Pulser Xcell system is built upon the main unit. The CE module contains the low-voltage capacitors required for mammalian cells and plant protoplasts. The PC module contains the resistors needed for high-voltage electroporation. The system is available in three combinations.



#### Gene Pulser Xcell Total System

The total system includes both the PC module and the CE module and provides full capability to electroporate both eukaryotic and prokaryotic cells using either exponential or square-wave pulses.



#### Gene Pulser Xcell Eukaryotic System

Consisting of the main unit and the CE module, the eukaryotic system enables electroporation of mammalian cells and plant protoplasts. With a range of 25–3,275  $\mu\text{F}$ , the CE module provides a means of controlling the capacitance of the circuit by increasing the time constant of the pulse. For square-wave pulses, the CE module provides the large capacitor necessary for delivering a square-wave pulse into low-resistance media.



#### Gene Pulser Xcell Microbial System

Consisting of the main unit and the PC module, the microbial system enables electroporation of bacteria and fungi, as well as other applications where high-voltage pulses are applied to samples of small volume and high resistance. By placing resistors in parallel with the sample, the PC module controls the resistance of the circuit, providing a means of reducing the time constant of an exponential-decay pulse.

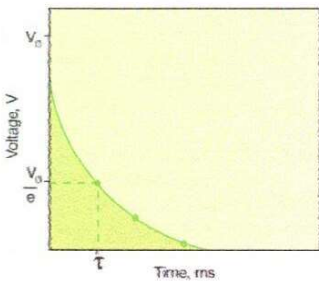
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## Exponential and Square-Wave Pulses

The Gene Pulser Xcell system generates both exponential and square waveforms, enabling you to choose the waveform and protocol that will work best for your cells.

### Exponential Decay

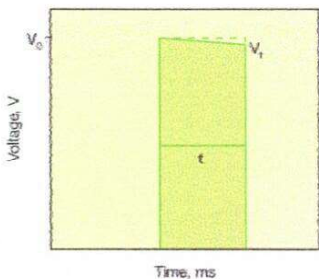
The chosen voltage is released from the capacitors and decays exponentially over time. The delivered pulse is characterized by two parameters, the field strength ( $E$ , expressed in kV/cm) and the time constant ( $\tau$ ). The field strength is controlled by adjusting the voltage on the Gene Pulser Xcell system for a known electrode distance. Resistance and capacitance can also be selected using the interface. Following the pulse, the instrument will display values for the actual volts delivered and the time constant.



**Exponential-decay pulse.** When a capacitor charged to a voltage  $V_0$  is discharged into cells, the voltage applied to the cells decreases over time exponentially. The time required for the initial voltage to drop to  $V_0/e$  (where  $e$  is the base of the natural logarithm) is referred to as the time constant,  $\tau$ , a convenient expression of the pulse length.

### Square Wave

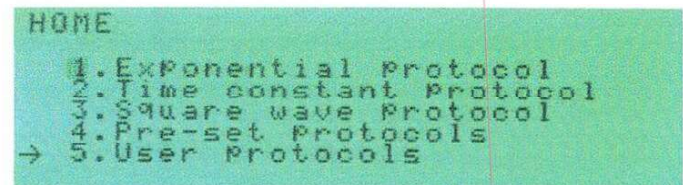
For some cell lines, particularly sensitive lines that are easily damaged using exponential-decay waves, square waves offer increased efficiency and viability. Square-wave pulses are characterized by the voltage delivered, the length of each pulse, the number of pulses, and the length of the interval between pulses. All of these parameters can easily be set using the Gene Pulser Xcell interface. Following the pulse, the instrument will display the actual volts delivered, the pulse time, and the interval time, when multiple pulses are used.



**Square-wave pulse.** Truncating the pulse from a capacitor after discharging it into the sample generates a square-wave pulse. The pulse length is the time the cells are subjected to the discharge. A slight drop in voltage occurs with all square-wave instruments. This drop in voltage is called the pulse droop and is measured as a percentage of the initial voltage.

## User-Friendly Interface

The graphical interface on the main unit controls all functions, including those of any connected accessory modules. The interface consists of a single screen with function keys and an alphanumeric keypad. Programming is simple and intuitive using onscreen prompts. The screen is used for programming, and to display stored and preset protocols, parameters delivered, and a graphic of the pulse waveform.



All programs are easily accessed from the Home screen.

## Reliable and Safe Performance With PulseTrac Circuitry

Microprocessor-controlled circuitry ensures that only the highest-quality electroporation pulses are consistently delivered while offering maximum sample protection. The PulseTrac system monitors and adjusts for the total resistance and capacitance of the complete circuit, including the sample in the cuvette, to provide accurate delivery.

### PulseTrac Features

- Facilitates capacitor recalibration to maintain accurate pulse specification over time
- Provides prepulse sample resistance measurement
- Reduces the risk of arcing in the high-voltage circuit, protecting both instrument and sample
- Tightens the already rigorous precision of the low-voltage capacitors in the CE module from 10% to 20%
- Enables safe, automatic discharge of current if the pulse or circuit is interrupted

### Optimization Protocol

Optimal delivery conditions need to be determined for each new experimental system by using a series of preliminary experiments to determine the ideal pulse parameters. The optimization protocol will enable you to determine the best conditions using incremental voltage steps.

## Preset Programs for Commonly Used Microbial and Mammalian Cells

The Gene Pulser Xcell system presents specific pretested parameters for the most frequently used cell lines.

### Available Preset Programs for Selected Cell Lines\*

Mammalian	Bacterial	Fungal
A549	<i>Escherichia coli</i>	<i>Saccharomyces cerevisiae</i>
BHK21	<i>Agrobacterium tumefaciens</i>	<i>Pichia pastoris</i>
CHO	<i>Pseudomonas aeruginosa</i>	<i>Candida albicans</i>
COS-7	<i>Staphylococcus aureus</i>	<i>Schizosaccharomyces pombe</i>
CV1	<i>Bacillus cereus</i>	<i>Dictyostelium discoideum</i>
HEK 293	<i>Streptococcus pyogenes</i>	
HeLa	<i>Lactobacillus plantarum</i>	
HL60		
HuT78		
Jurkat		
K562		
NIH 3T3		

\* Detailed parameters can be found for each of these cell lines, with details for the preparation of electro-competent cells, in the Gene Pulser Xcell instruction manual or at [www.bio-rad.com/genetransfer/](http://www.bio-rad.com/genetransfer/)

## User Method Storage

Every researcher has preferred methods for electroporating specific cell types. The method storage program enables 12 users to each store 12 programs. The programs can be saved by name using the alphanumeric keypad.

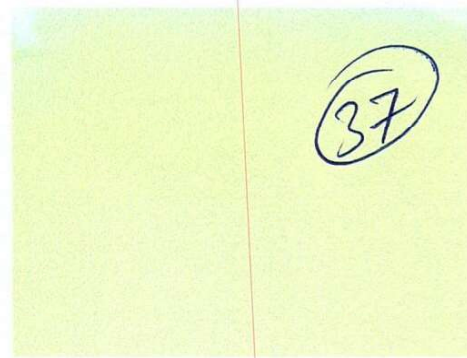
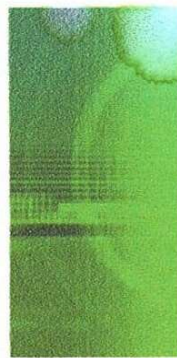
## Electro-Competent Cells

Bio-Rad's EP-Max™10B and EP-Max10B F<sup>+</sup> cells are perfect for the most demanding applications, where consistent, high-efficiency transformations are critical to experimental success. EP-Max10B T1-resistant cells maintain the *tonA* marker, for added protection from T1 and T5 phage infections.

Bio-Rad's high-quality electro-competent cells are also available in a convenient EasyShock™ format. EP-Max10B cells are provided frozen, in 1.0 cm gap electroporation cuvettes, for high transformation efficiencies in a simple four-step protocol.

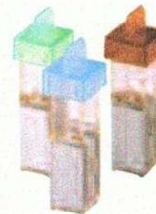
### EP-Max Cell Features

- Blue/white screening
- Transformation efficiencies  $>1 \times 10^{10}$  cfu/ $\mu$ g DNA
- Accepts methylated DNA
- recA* and *endA* mutations for high-quality plasmids
- Transformable by plasmids as large as 50 kb
- Produced with manufacturing controls to ensure consistent performance



## Cuvettes

Bio-Rad's high-quality electroporation cuvettes provide consistent pulse delivery to your valuable samples, ensuring reproducible results. Cuvettes are available in three different gap widths (0.4, 0.2, and 0.1 cm) for optimal field strength delivery to a wide range of cell types.



### Bio-Rad Cuvette Features

- High-quality construction for consistent performance
- Gamma-irradiated to ensure sterility
- Color-coded caps for easy identification
- Available in several package sizes

### Electroporation Cuvette Selection Guide

0.4 cm gap cuvettes	Wider gap for low field strength, used for mammalian and other eukaryotic cells
0.2 cm gap cuvettes	Narrow gap for high field strength, used for yeast, bacterial, and eukaryotic cells
0.1 cm gap cuvettes	Narrowest gap and shallow bottom for small sample volumes (40–80 $\mu$ l) and very high field strength, used for yeast and bacterial transformation

## Ordering Information

Catalog #	Description
<b>Cuvettes</b>	
<b>Standard Packs</b>	
165-2088	Gene Pulser/MicroPulser Cuvettes, 0.4 cm gap, 50 (regular pack)
165-2086	Gene Pulser/MicroPulser Cuvettes, 0.2 cm gap, 50 (regular pack)
165-2089	Gene Pulser/MicroPulser Cuvettes, 0.1 cm gap, 50 (regular pack)
<b>Jumbo Packs*</b>	
165-2091	Gene Pulser/MicroPulser Cuvettes, 0.4 cm gap, 500 (jumbo pack)
165-2092	Gene Pulser/MicroPulser Cuvettes, 0.2 cm gap, 500 (jumbo pack)
165-2093	Gene Pulser/MicroPulser Cuvettes, 0.1 cm gap, 500 (jumbo pack)
<b>Mini Packs</b>	
165-2081	Gene Pulser/MicroPulser Cuvettes, 0.4 cm gap, 5 (mini pack)
165-2082	Gene Pulser/MicroPulser Cuvettes, 0.2 cm gap, 5 (mini pack)
165-2083	Gene Pulser/MicroPulser Cuvettes, 0.1 cm gap, 5 (mini pack)

\* Please inquire about volume pricing.



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## Gene Pulser Xcell System Specifications

### Gene Pulser Xcell Total System

For prokaryotic and eukaryotic cells; includes main unit, CE module, PC module, ShockPod

Outputs	Waveform: Exponential-decay or square-wave Voltage: 10–3,000 V
Capacitance	10–500 V: 25–3,275 $\mu$ F in 25 $\mu$ F increments 500–3,000 V: 10, 25, 50 $\mu$ F
Resistance (parallel)	50–1,000 $\Omega$ in 50 $\Omega$ increments, plus infinity
Sample resistance	20 $\Omega$ minimum at 10–2,500 V 600 $\Omega$ minimum at 2,500–3,000 V
Square-wave timing	10–500 V: 0.05–10 ms duration in 0.05 ms increments, 10–100 ms duration in 1 ms increments, 1–10 pulses, 0.1–10 sec interval 500–3,000 V: 0.05–5 ms duration in 0.05 ms increments, 1–2 pulses, 5 sec minimum interval

### Gene Pulser Xcell Eukaryotic System

For mammalian cells and plant protoplasts; includes main unit, CE module, ShockPod

Outputs and other specifications	Same as total system without the parallel resistance
----------------------------------	--

### Gene Pulser Xcell Microbial System

For bacteria and fungi; includes main unit, PC module, ShockPod

Outputs	Waveform: Exponential-decay or square-wave Voltage: 200–3,000 V
Capacitance	10, 25, 50 $\mu$ F
Resistance (parallel)	50–1,000 $\Omega$ in 50 $\Omega$ increments, plus infinity
Sample resistance	20 $\Omega$ minimum at 200–2,500 V 600 $\Omega$ minimum at 2,500–3,000 V
Square-wave timing	0.05–5 ms duration in 0.05 ms increments, 1–2 pulses, 5 sec minimum interval

### Gene Pulser Xcell Main Unit

Outputs	Waveform: Exponential-decay or square-wave Voltage: 200–3,000 V
Discharge capacitance	10, 25, 50 $\mu$ F
Sample resistance	20 $\Omega$ minimum at 200–2,500 V 600 $\Omega$ minimum at 2,500–3,000 V
Square-wave timing	0.05–5 ms duration in 0.05 ms increments, 1–2 pulses, 5 sec minimum interval

### General

Input voltage	100–120 VAC or 220–240 VAC, 50/60 Hz
Power	Maximum 240 W (during short charging periods)
Operating environment	Temperature 0–35°C, humidity 0–95% (noncondensing)
Regulatory	Safety EN 61010, EMC EN61326 Class A
Dimensions (W x D x H)	Main unit: 31 x 30 x 14 cm CE module: 31 x 28 x 9 cm PC module: 31 x 28 x 5 cm
Weight	Main unit: 6.6 kg CE module: 3.1 kg PC module: 1.9 kg

## MicroPulser Electroporator Specifications

Input voltage	Automatic mains voltage switching, 100–120 V or 220–240 V
Input current	2 A RMS (100–120 V) 1 A RMS (220–240 V)
Maximum output voltage and current	3,000 V peak into >600 W load; limited at 100 A peak maximum
Output waveform	Decaying or truncated-decaying exponential waveform with RC time constant of 5.0 ms assuming loads of 3.3 k $\Omega$
Output voltage and pulse duration adjustment	Voltage adjustable in 200–3,000 V range with 10 V precision; 5 ms default or 1–4 ms with 0.1 ms precision; 5 bacterial and 5 fungal preset programs
Operating environment	Temperature 3.5–35°C, humidity 0–95% (noncondensing)
Dimensions (W x D x H)	29 x 21 x 8 cm
Weight	2.9 kg

## Ordering Information

Catalog # Description

### MicroPulser Electroporator

165-2100	MicroPulser Electroporator, includes a cuvette chamber with leads, 10 sterile cuvettes (5 each of 0.1 cm and 0.2 cm gap)
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### Gene Pulser Xcell Systems and Components

165-2660	Gene Pulser Xcell Total System, for mammalian and microbial cells, 100/240 V, 50/60 Hz, exponential and square-wave delivery, includes main unit, CE module, PC module, ShockPod chamber, 15 sterile cuvettes (5 each of 0.1, 0.2, and 0.4 cm gap), instructions
165-2661	Gene Pulser Xcell Eukaryotic System, 100/240 V, 50/60 Hz, exponential (25–3,275 $\mu$ F range) and square-wave delivery, includes main unit, CE module, ShockPod chamber, 5 sterile cuvettes (0.4 cm gap), cuvette rack, instructions
165-2662	Gene Pulser Xcell Microbial System, 100/240 V, 50/60 Hz, exponential-decay delivery, includes main unit, PC module, ShockPod chamber, 10 sterile cuvettes (5 each of 0.1 and 0.2 cm gap), cuvette rack, instructions
165-2666	Gene Pulser Xcell Main Unit, 100/240 V, 50/60 Hz
165-2667	Gene Pulser Xcell CE Module, 25–3,275 $\mu$ F range controlled by main unit, includes integral leads
165-2668	Gene Pulser Xcell PC Module, 50–1,000 $\Omega$ range controlled by main unit, includes integral leads
165-2669	Gene Pulser Xcell ShockPod Cuvette Chamber, includes integral leads for connection to Gene Pulser Xcell, Gene Pulser® II, or MicroPulser electroporators

Bio-Rad  
Laboratories, Inc.

Life Science  
Group

Web site [www.bio-rad.com](http://www.bio-rad.com) USA 800 4BIORAD Australia 61 02 9914 2800 Austria 01 877 89 01 Belgium 09 385 55 11 Brazil 55 21 3237 9400  
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Web: www.genetixbiotech.com

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## UNDERTAKING REGARDING BLACKLISTING / NON - DEBARMENT

We hereby confirm and declare that we , M/s Genetix Biotech Asia Pvt. Ltd. , having registered office at 71/1, Shivaji Marg , New Delhi-110 015 , India , is not blacklisted/ De-registered/ debarred by any Government department / Public Sector Undertaking / Private Sector / or any other agency for which we have Executed / Undertaken the works / Services & will ensure fair trade practice.

Authorised Signatory



Date: 26.07.2024

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The Head  
Department of Biotechnology  
All India Institute of Medical Sciences  
Ansari Nagar, New Delhi – 110029

**Subject: List of Consumables against Quote Ref- 193323 dated 1<sup>st</sup> April, 2024**

S.No	Details of Consumables	Qty Required Annually	Approx Unit Rate (INR)	GST Value @18%	Total Price (with GST)
1	Gene Pulser®/MicroPulser™ Cuvettes, 0.2 cm gap, 50/pack <b>Cat No: 1652086</b>	1	16725/-	3010.50/-	19736/-
2	Gene Pulser®/MicroPulser™ Electroporation Cuvettes, 0.1 cm <b>Cat No: 1652089</b>	1	16725/-	3010.50/-	19736/-
3	CUVETTES 4MM PKG 50 STERILE <b>Cat No: 1652088</b>	1	16725/-	3010.50/-	19736/-

Note \*\*

- 1) The above price are with 18% GST, Further GST will be applicable as per Government Policy.
- 2) The above Prices are valid till 31<sup>st</sup> March, 2025, further there will be increment of **7% plus GST extra** on above prices for every Financial Year.

Thanks & Regards



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