



CSIR-INDIAN INSTITUTE OF CHEMICAL BIOLOGY
(COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH)
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GSTIN No.: **19AAATC2716R3ZA**



PURCHASE ORDER

M/s. Premas Life Sciences Pvt. Ltd, E 49/5, 2 nd Floor, Okhla Industrial Area, Phase 2, New Delhi-110020 Email: cs@premaslifesciences.com	PO No.	IICB/PUR/2025-26/599/613/118
	Date	22.01.26
	Subject	Procurement of Spectral Cell Sorter
	Your Ref.	Quotation No.: SQPLS/25-26/0333, dated 27.10.25 and Your email dated 27.12.25 & 14.01.2026

Sub: Award of contract for Supply, Installation, Commissioning and Training of Spectral Cell Sorter

Ref:

- Your Quotation No.: SQPLS/25-26/0333, dated 27.10.25
- Your email dated 27.12.25 & 14.01.26

Sir/Madam,

I am directed to inform you that the Purchase Order for the supply, installation, commissioning and training of **Spectral Cell Sorter** is awarded to your firm. Accordingly, you are requested to arrange for Supply, Installation, Commissioning and Training of the offered item/items as detailed below:

Sl. No.	Estimate Description	QTY	UNIT PRICE [INR]	TOTAL PRICE [INR]
1	Cytek® Aurora CS 5L Full Spectrum Sorter (64 fluorescence + 3 scatter Channels, i.e., FSC, Violet SSC & Blue SSC) Part No.: N7-00094 As per Annexure A attached	01	3,13,55,318.18	3,13,55,318.18
2	Accessories: • Sorter Compressor Assy- 230 V As per Annexure A attached	01	Included	Included
3	Accessories: • Biosafety Cabinet Class 2 Type A2 (NSF International Standard 49) As per Annexure A attached	01	Included	Included
4	Compatible 5KVA UPS with and integrated in-built battery offering 30-minute back up and a compact design	01	Included	Included
Detailed specifications of the items shall strictly conform to those specified in Purchaser's Tender Document No.: IICB/PUR/2025-26/599/613/118 [published as a GTE on CPP portal of Government of India with tender ID 2025_CSIR_250575_1] and complied by Supplier in their quotation/offer SQPLS/25-26/0333, dated 27.10.25 and Your email dated 27.12.25 & 14.01.2026				
Grand Total				3,13,55,318.18
Add : GST @ 18%				56,43,957.27
F.O.R. CSIR-IICB Kolkata Price				3,69,99,275.45
R/o				3,69,99,275.00
<i>Rupees Three Crores Sixty Nine Lakh Ninety Nine Thousand Two Hundred and Seventy Five only</i>				

The Purchase Order shall be governed by the terms and conditions as stipulated in CSIR-IICB Tender Document. The technical specifications and other allied features of the ordered goods and services shall strictly conform to those specified in the CSIR-IICB Tender Document.

Attention of the Supplier is also invited to the following conditions:

1	Price basis	F.O.R. CSIR-IICB Kolkata
2	Delivery period [for supply and installation of the ordered goods]	The entire obligations of supply and installation, commissioning and training of the ordered goods shall have to be completed within 23.03.26. Purchaser reserves the right to ask for a joint inspection of the delivered goods in the presence of supplier's representative.
3	Delivery site	CSIR-IICB TRUE Campus, CN-06, CN Block, Sector V, Bidhannagar, Kolkata, West Bengal 700091
4	Taxes & Duties	GST @18% shall be applicable on the order value.
5	Installation and Commissioning	The ordered goods shall be installed and commissioned by Supplier's engineers within the delivery period stipulated in this Purchase Order. Once installation is completed, necessary training shall be imparted to Purchaser's Scientists/Technical Officers etc. for effective operation and maintenance of the equipment.
6	Training	Vendor/Supplier, Manufacturer should provide comprehensive training of 05 days to 04-08 persons at the time of installation, commissioning & testing of the system at no extra cost, at CSIR-IICB, Kolkata.
7	Warranty	The ordered goods shall be covered under on-site comprehensive warranty on whole system including UPS and Workstation for a period of 05 years to be effective from the date of successful installation and commissioning of the goods. Other aspects of the warranty clause are detailed at GCC Clause 2.21 read with the relevant SCC.
8	Payment terms	<p>The payment shall be made in Indian Rupees as follows:</p> <ul style="list-style-type: none"> 80 percent (Eighty percent) of the Contract Price shall be paid on receipt of all the ordered Goods in good condition and upon submission of the documents specified in the Purchase Order. At the time of taking delivery of the ordered goods, Purchaser reserves the right to ask for a joint inspection in presence of Supplier's representatives for verification of the goods delivered. The eighty percent of contract price shall mean to be eighty percent of the basic cost of goods plus 100% taxes [GST] less TDS-GST at the applicable rates. The remaining 20 percent (twenty percent) of the Contract value shall be paid to the Supplier within thirty (30) days after the date of the acceptance certificate issued by the Purchaser subject to submission of Performance Security. <p>Note: All payments due under the Contract shall be paid after deduction of statutory levies at source wherever applicable.</p>
9	Performance Bank Guarantee / Performance Security	Within 21 days of issue of this Purchase Order, Supplier shall furnish a Performance Security for 05% of the order value / invoice value. Other aspects of the Performance Security clause are detailed at GCC Clause 2.13.1 read with the relevant SCC
10	Custom Duty Exemption Certificate	For supplies made from within India, Custom Duty Exemption Certificate and DSIR Certificate will not be issued

11	Terms and Conditions	All the terms and conditions as per GCC & SCC as mentioned in the tender document of CSIR-IICB bearing No.: IICB/PUR/2025-26/599/613/118 [published as a GTE on CPP portal of Government of India with tender ID 2025_CSIR_250575_1] shall be applicable.
12	Liquidated damage	<p>Subject to GCC Clause on Force Majeure, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as penalty, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services or contract value in case the delivered price of the delayed Goods or unperformed services cannot be ascertained from the contract, for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the Percentage specified in SCC. Once the maximum is reached, the Purchaser may consider termination of the Contract pursuant to GCC Clause on Termination for Default.</p> <p>The penalty shall be 0.5% per week or part of a week towards late delivery and towards delay in installation and commissioning.</p> <p>The maximum amount of penalty shall be 10%</p>

The Purchase Order shall be governed by the terms and conditions laid down in our tender document vide Tender Document No.: IICB/PUR/2025-26/599/613/118 [published on CPP portal of Government of India with tender ID 2025_CSIR_250575_1].

You are requested to send us the Order Acknowledgement immediately and in any case within 14 days of receipt of this Purchase Order.

This Purchase Order constitutes a binding contract between you as the Supplier and CSIR-Indian Institute of Chemical Biology as the Purchaser.

Yours faithfully,

Controller of Stores & Purchase
For and on behalf of the CSIR-Indian Institute of Chemical Biology, Kolkata

ANNEXURE A

Description	Qty.
<p>Cytek® Aurora CS 5L Full Spectrum Sorter (64 fluorescence + 3 scatter Channels, i.e., FSC, Violet SSC & Blue SSC) Part No. N7-00094</p> <ul style="list-style-type: none"> - 5-laser full spectrum sorter with tube and plate sorting, sample and collection tube cooling and heating, built-in primary aerosol containment, various nozzle sizes. - The Aurora CS is designed to leverage the paradigm-shifting technology onboard that has made the Cytek® Aurora so successful and deliver all the sorting capabilities you've come to expect in a high-capacity sorter. - The Aurora CS optical design and unmixing algorithm give scientists remarkable flexibility, enabling the use of a wide array of new fluorochrome combinations without reconfiguring the system for each application. - State-of-the art optics and low-noise electronics provide excellent sensitivity and resolution such that the same assays optimized on the Cytek Aurora system or conventional flow cytometers can also be run on the Aurora CS for sorting. - The Aurora CS comes standard with many features that enable it to easily handle any sorting application from small particles to large cells. - The same intuitive SpectroFlo® software is used to drive the Aurora CS, with the addition of a sorter UI console that offers intuitive workflows combined with powerful and customizable functionality. - Take your research even further and gain deeper insights by harnessing the power of Full Spectrum Cytometry to isolate populations of interest. - Assay transferability from the Cytek Aurora full spectrum flow cytometer or conventional flow cytometers. <p>Instrument Specifications:</p> <p>OPTICS</p> <p>Excitation Optics:</p> <p>Optical Platform: Aurora CS contains a fixed optical assembly with the capacity to be configured with five spatially separated laser beams. Laser delays are automatically adjusted during instrument QC.</p>	01
<p>Lasers:</p> <ul style="list-style-type: none"> - 355 nm: 20 mW (Ultraviolet) - 405 nm: 100 mW (Violet) - 488 nm: 50 mW (Blue) - 561 nm: 50 mW (Yellow-Green) - 640 nm: 80 mW (Red) <p>Beam Geometry: Flat-Top laser beam profile with narrow vertical beam height optimized for small particle detection</p> <p>Emission Optics:</p> <p>Emission Collection: Fused silica cuvette (flow cell) coupled to high NA lens for optimum collection efficiency to optical fibers</p> <p>Forward And Side Scatter Detection:</p> <p>FSC (Forward Scatter): high-performance semiconductor detector with 488nm bandpass filter</p> <p>SSC (Side Scatter): two high-performance semiconductor detectors with 405nm and 488nm bandpass filters</p> <p>Fluorescence Detectors: 64 fluorescence channels using high sensitivity Coarse Wavelength Division Multiplexing (CWDM) semiconductor array per laser enabling more efficient spectrum capture in the 365-829 nm range. No filter changes required for any fluorochrome excited by the 355 nm, 405 nm, 488 nm, 561 nm, 640 nm lasers.</p> <p>Optical Configuration:</p> <ul style="list-style-type: none"> - Ultraviolet detector module: 16 fluorescence channels - Violet detector module: 16 fluorescence channels - Blue detector module: 14 fluorescence channels - Yellow-Green detector module: 10 fluorescence channels - Red detector module: 8 fluorescence channels 	

FLUIDICS

Sample Flow Rates: Adjustable in increments of 7 $\mu\text{L}/\text{min}$ from 10 $\mu\text{L}/\text{min}$ to 80 $\mu\text{L}/\text{min}$

Fluidic Modes: Fluidics startup, fluidics shutdown, SIT flush, purge filter, clean flow cell, aseptic clean, sample return

Sample Input Formats: 12x75 mm (5ml) and 15 mL polystyrene or polypropylene tube with sample mixing

Fluidic Reservoirs: 10 L sheath and waste fluid containers with level sensing provided. 3 L cleaning tank also included

END OF SAMPLE DETECTOR

An in-line end of sample detector detects air bubbles in the sample line. When air is detected, the sample line is pinched to prevent air from entering the flow cell.

ELECTRONICS

Signal Processing: Digital signal processing with automatic window gate adjustment
22-bit 6.5 log decades

PERFORMANCE**FLUORESCENCE SENSITIVITY**

FITC: ≤ 5 MESF

PE: ≤ 4 MESF

APC: ≤ 3 MESF

Pacific Blue: ≤ 4 MESF

Fluorescence Linearity: FITC $R^2 \geq 0.995$ / PE $R^2 \geq 0.995$

Forward and Side Scatter Resolution: optimized for resolving lymphocytes, monocytes, and granulocytes.

Side Scatter Resolution: capable of resolving 0.1 μm polystyrene beads from noise

Capable of resolving 70 nm polystyrene beads from noise with the Enhanced Small Particle™ (ESP™) Detection Option

Carryover: $\leq 0.1\%$

Data Acquisition Rate: 25,000 events/s

SORT OUTPUT**Sort Collection:**

- 15 mL polystyrene and polypropylene tubes
- 1.5 mL & 5 ml polystyrene and polypropylene tubes
- 96-well & 384-well plates with index sorting
- Custom plate options available

Nozzles: Quick-replace 70, 85, 100, and 130 μm nozzles with optimized and user definable pressure and sorter settings

Up to 6-way sorting with any nozzle size

Sort Modes: Multiple optimized sort modes for purity, enrichment, mixed, and single cell plus user definable sort modes

Deposit 1 cell per well into 96 wells in less than 2 minutes and 384 wells in less than 5 minutes

TEMPERATURE CONTROL

4° to 37°C for both sample input and output

BIOSAFETY

Built-in aerosol management with user replaceable HEPA filters

SOFTWARE**Spectroflo®CS Software**

- Live unmixing during acquisition and sorting
- Sort on raw or unmixed data
- Developed specifically to streamline assay setup, data acquisition, and file export
- Automated QC module
- Autofluorescence extraction
- Manual and automated drop delay module
- Default and customizable sort modes and nozzle Settings
- Sort collection tube volume monitoring and live view
- Autogenerated sort reports
- Raw and Unmixed FCS 3.1 files

<p>WORKSTATION</p> <p>Computer basic specifications: Operating system: Windows® 11 Pro 64-bit Processor: Intel®Core™i7 (13thGen) or equivalent RAM: 64 GB Hard drive: 1 TB SSD and 2 TB SSD or higher storage Monitor: Two 27" UHD 4K Monitors</p> <p>SORT PERFORMANCE</p> <p>Sort Purity: 1%-2% population of lymphocytes using a 70 µm nozzle, mixed sort mode, and a system threshold rate of 20,000 events/second</p>	
<p>Sort purity ≥ 95% and sort yield is ≥ 90% to theoretical yield</p> <p>Sort Gates: Sort up to 6 populations up to 64 levels deep in the gating hierarchy</p> <p>SORT FEATURE</p> <p>Sort multiple populations into the same tube; up to 40 populations can be sorted across any combination of tubes</p> <p>INSTALLATION REQUIREMENTS</p> <p>Instrument Dimensions (WxDxH): 75 x 57 x 65 cm (29.5 x 22.4 x 25.6 in)</p> <p>Instrument Weight: 105 kg</p> <p>Recommended Workspace (WxDxH): 183 x 81 x 94 cm (72 x 31.9 x 37 in)</p> <p>ROOM REQUIREMENTS</p> <p>Power: 200-250 VAC, 10A Heat Dissipation: 1000 W with all solid-state lasers Temperature: 18-28°C Humidity: 20%-85% relative non-condensing Air Supply: 551.5 to 586 kPa (80 to 85 PSI) clean dry air Air Filtering: No excessive dust or smoke</p>	
<p>Accessories:</p> <ul style="list-style-type: none"> • Sorter Compressor Assy- 230 V • Biosafety Cabinet Class 2 Type A2 (NSF International Standard 49) 	<p>01</p> <p>01</p>