

NIPER-G/PUR/GLOBAL/2018/04

Specifications for Flow cytometer

General: The flow cytometer should provide designer platform that offers excellent performance, ease of operation and flexibility for research applications in a immunology lab and the instrument should provided with the compact footprint to fit on the bench top.

Specification as per the previous

Amended Specifications

1.	<p><u>Mandatory specifications:</u></p> <p>1. High end multi-colour benchtop flow cytometric analyzer with at least 3 lasers – Blue (488nm), Red (630-642nm), and Violet (405nm), with upgradability of 4 to 5 or more lasers. 4th or 5th lasers should be Ultraviolet (355nm) or Yellow green (561 nm). All lasers should be for simultaneous use.</p>	<p>High end multi-colour benchtop flow cytometric analyzer with at least 3 lasers – Blue (488nm), Red (630-642nm), and Violet (405nm), with upgradability of 4 or more lasers. 4th laser may be Ultraviolet (355nm) or Yellow green (561 nm). All lasers should be for simultaneous use.</p>
	<p>2. The equipment must have the ability to detect at least 16 parameters (at least 14 true non-overlapping fluorescence channels/ colours) including one forward and one side scatter simultaneously. System should be upgradable up to at least 14 or more colours in future for simultaneous use.</p>	<p>The equipment must have the ability to detect at least 14 parameters (at least 12 true non-overlapping fluorescence channels/ colours) including one forward and one side scatter simultaneously. System should be upgradable up to at least 14 or more colours in future for simultaneous use of at least 16 parameters or more</p>
	<p>3. The equipment should have dedicated beams-spots for each laser. All the fluorescence detector channels and side scatter channel must be designed with photo multiplier tube (PMT) for achieving best resolution even for dimly stained population</p>	<p>No change</p>
	<p>4. The system should be designed to use the time tested sheath fluid technology i.e., buffered saline. The system should based on hydrodynamic focusing or any</p>	<p>No change</p>

	advanced technologies	
	5. The acquisition speed in terms of cells or particles of this system should be able to acquire at least 35000 or more events per sec for rare event analysis.	No change
	6. The fluorescence resolution in terms of %CV should be less than 3 and or should resolve 0.5 μm particles from background.	No change
	7. The system should have control over instrument set up and experimental results i.e., acquisition, analysis, gating strategies and report parameters in a single software.	No change
	8. The system should have automated compensation calculation and inter beam compensation.	No change
	9. The system should be able to allow analysis of data parallel to sample acquisition and also should have pre-defined assay menu for one click launch.	Specification deleted
	10. The system should have sampler loader to accommodate minimum 25 tubes/samples and 96 and 384 well plates.	The system should have sampler loader to accommodate 96 and 384 well plates.

<p>11.The system should have multiple sample input option with manual loading position including 5,15 & 50 ml conical tubes & 0.5ml / 1.5ml micro centrifuge tubes</p>	<p>The system should have multiple sample input option with manual loading position including 0.5ml / 1.5ml micro centrifuge tubes and 5ml tubes or more</p>
<p>12.The system should have automating instrument set up leading to consistent and reliable results and also should have automatic start up and shut down procedures.</p>	<p>No change</p>
<p>13.The system apart from offering low, medium & high flow rates or adjustable flow rates, should also offer high sensitive mode, which can result in higher fluorescence signal resolution which is required for applications where there is need to look at dim stained populations.</p>	<p>Specification deleted</p>
<p>14.The system should also offer bead free absolute count measurement for research applications.</p>	<p>Specification deleted</p>
<p>15.The instrument should come with the multi cytokine bead based kits (TNF, IL1 beta, IL 6 and IL 12 specific for mouse and rats) along with all buffers</p>	<p>Can be quoted from 3rd party</p>
<p>16.The instrument should also come with sheath fluid for 400 days (10lit/day approx) and a maintenance kit including cleaning, washing kits and other required accessories.</p>	<p>The instrument should also come with sheath fluid for 400 days (10lit/day approx) and a maintenance kit including cleaning, washing kits and other required accessories. The proposed amount will be taken on staggered basis during the warranty period (i.e. within 3 years as and when required)</p>

<p>17.Data management system should have PC workstation with windows 7 or later with intel i7 core processor, 16GB RAM and 80GB Hard disk or better, DVD/CD Rom read/write combo drive, 23” flat monitor with good resolution along with all in one colour laser jet printer or better.</p>	<p>Data management system should have PC workstation with windows 7 or later with intel i7 core processor, 16GB RAM and 80GB Hard disk or compatible computer with the system along with DVD/CD Rom read/write combo drive, 23” flat monitor with good resolution along with all in one colour laser printer or better quality.</p>
<p>18.The system should come with a suitable branded 5 KV UPS with minimum 2hr backup.</p>	<p>The system should come with a suitable branded 5 KV UPS with minimum 1hr backup.</p>
<p>19.After sales and equipment maintenance support: a) We would like to have 2 years comprehensive warranty for the instrument along with all accessories even if they are bought out items</p>	<p>No change</p>
<p>20.Supplier should assure the shifting of the equipment to the new campus within the warranty period without any additional cost</p>	<p>No change</p>

Sd/-
Purchase officer

General Terms and Conditions applicable to all 13 tenders published in newspaper on 19th February 2018 and exhibited in NIPER Guwahati website.

Following additional information is provided for the information of prospective bidders for 13 different items for which tender inquiry is issued:

1. Payment terms:

Considering the request made by few prospective bidders during the pre-bid conference held in the institute on 22nd February 2018, regarding payment terms related with foreign suppliers it is clarified that the **indicated payment terms in the tender documents still remains unchanged.** However Director, NIPER Guwahati **at his own discretion** can consider any other mode of payment requested by suppliers based on the reputation, credentials of foreign suppliers in the field and also protecting the interests of NIPER Guwahati. **No request for advance payment will be considered.**

2. Clarification with regard to projecting the cost implications of free delivery of the item at NIPER Guwahati premises.

Subsequent to the Pre-bid conference with regard to projection of price for items coming from abroad, the following guidelines may be followed:

- A) The F.O.B. C.I.F., C.I.P. prices as per the suppliers quote should be indicated in foreign currency only
- B) The additional cost towards payments of custom duty against duty exemption certificated provided by the institute, clearance charges, forwarding consignment from port of clearance to NIPER Guwahati premises etc. can be quoted in Indian currency.

For comparing the price with other bids, the institute at the time of preparing comparative chart for the tenders, the total F.O.B., C.I.F., C.I.P. cost will be converted into equivalent Indian currency at the exchange rate prevailing on the date of tender opening i.e. 13th February

2018 at 1500 hours IST and add the equivalent Indian currency value to the clearance and forwarding charges indicated by the supplier.
