

AMENDED SPECIFICATIONS (MARKED IN RED COLOUR) AS FINALIZED BY THE COMPETENT AUTHORITY

Sl. No	Technical Specifications for Flow Cytometer
1	Required is a benchtop flow cytometric analyzer with 4/5 lasers – Blue (488nm), Red (630-642nm), Violet (405nm), True Ultraviolet (355nm) and Yellow green (561 nm; in case of 5 th laser)
2	The equipment must have ability to detect at least 18 parameters (at least 16 true non-overlapping fluorescence channels along with at least one forward and one side scatter) simultaneously. Alignment of all the lasers and optics must be fixed.
3	Height, Area and Width information must be available for all parameters simultaneously.
4	The equipment should have dedicated beams-pots for each lasers. All the fluorescence detector channels and side scatter channel must be designed with photo multiplier tube (PMT) or equivalent for achieving best resolution even for dimly stained population.
5	Equipment should have capability of acquiring should be at 30,000 events/sec or higher with all active parameters.
6	Manual loading of standard 5 ml tubes should be acceptable. Both basic and advanced customizable applications should be feasible on the equipment.
7	High throughput automated sample loader for sample analysis from 96 and/or 384 well plates must be provided.
8	Digital signal processing should allow threshold to be set on all available channels simultaneously in any combination of all available parameters during sample acquisition.
9	Latest branded workstations (with hard disk 2TB, RAM 8GB) compatible with the supplied flow cytometer along with two monitors should be provided.
10	Offline advanced analysis software in an offline branded computer with at least 12gb RAM and 1 tb HDD, 23" monitor, along with all system softwares must be provided along with atleast 6TB external hard drive (branded) along with a DVD writer.
11	An offline 3 rd party advanced analysis software (multi user) should be provided with the machine.
12	Compatible UPS for at least 30 min standby time of the supplied flow cytometer must be provided.
13	A colour laser printer should be provided compatible with offline analysis computer.
14	Starter kits and reagents, including sheath fluids, tubes, calibration beads, cleaning kit and compensation kit, should be provided.
15	At least two onsite training workshops for the users to be arranged after equipment installation.
16	User list along with performance or installation certificates should be provided from at least 5 academic users and at least 10 users globally of the same quoted configuration. Performance demonstration of quoted system must be done with 5 laser configuration to be done within Kolkata if requested by the technical committee.
17	Comprehensive warranty for three years that include replacement assurance on all hardware and software components of the equipment should be included in the quoted price. Post-warranty CMC/AMC should also be quoted.

Prof. Sujoy Dasgupta, Chairman

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Dr. Syamal Roy, External expert

Dr. Dipyaman Ganguly, External expert

Dr.Kaushik Biswas, Member

Dr.Zhumur Ghosh, Member

Mr.Sougata Banerjee, Registrar'Nominee