

Running Contract Details	
Equipment Name	Advanced Flow Cytometry
Running Contract Valid Till	07-04-2021
Tender Ref No	KMSCL/EP/T315/1274/2019(R)
Tendered Quantity	15
Supplier Name	M/s Becton Dickinson India Pvt Ltd
GST No	07AAACB2656A1Z9
Installation & Delivery Period	8 Week(s)
Up-time / PM vist	95% & 4 Visits per year
Warranty period	3 Years

Supplier`s Details		
Address	Contact Details	
204 Tolstoy House15 Tolstoy Marg 110001	Contact Person	Shilpa Shekatkar
	Phone	9538999875
	Mobile No	9538999875
	Email	shilpa_shekatkar@bd.com

Item-wise Price Details				
#	Item Details	Unit Rate (Incl.all taxes & charges)	Service Charges (Through KMSCL)	Grand Total
1	Advanced Flow Cytometry <i>Model & Make : BD LSRFortessa X-20 / Becton Dickinson, USA</i>	12950500 Incl.GST :18%	906535	13857035
		12950500	906535	13857035

Annual / Comprehensive Maintenance Charges (Exl.Tax)							
Rate	4 th Year	5 th Year	6 th Year	7 th Year	8 th Year	9 th Year	10 th Year
Advanced Flow Cytometry							
Labour	1,60,000.00	1,60,000.00	1,60,000.00	1,60,000.00	1,60,000.00	1,60,000.00	1,60,000.00
Comprehensive	3,38,000.00	3,38,000.00	3,38,000.00	3,38,000.00	3,38,000.00	3,38,000.00	3,38,000.00

Other terms & conditions

1. The supplier shall execute an agreement with the purchaser as per tender conditions (agreement format is given in the tender

document).

2. The supplier shall submit performance security amounting to 5% of the value of the supply order.
3. The labour & comprehensive charges of equipment after the completion of warranty period is finalized by KMSCL as mentioned above.
4. Since discount rate is not applicable for equipment under Running Contract of KMSCL, purchase/supply order can be issued directly to supplier at the given rate with tax & other charges (exclusive of KMSCL service charges).
5. If purchase/supply order is issued directly to the supplier, KMSCL service charge need not be paid. But the copy of the said order may be forwarded to KMSCL for information.

Technical Specification

Equipment :Advanced Flow Cytometry

The system should be a bench-top system with small footprint.

Fluidics: -

1. The system should have latest and advanced technology features which allows for high precision analysis and should have sample flow rates of 12.5 to 120 µl/min.
2. Sheath and sample should be delivered by positive pressure.
1 of sample volume for data acquisition.
4. Fluid consumption should not be more than 2 liters/day @ 8 hours per day.

I. Optics: -

A. Excitation:

1. The system should come with the following four laser configuration which can be upgraded to fifth one (preferably UVLED/laser): -
 - a. Blue laser:488 nm
 - b. Red laser: 637 nm ±5nm
 - c. Violet laser: 405 nm
 - d. Yellow laser: 561 nm
2. All the lasers should be spatially separated.
3. The alignment of lasers, all optics and flow-cell should be fixed with no requirement of users.
4. System should give absolute count with / without the use of any reference beads.

A. Emission:

1. System should be able to simultaneously detect minimum 16 parameters (14 colors and 2 scatter).
2. System must have PMTs for detection.
3. Emission filters: must be user-changeable, optical layout, band-pass/long-pass/short-pass/dichroic: filters/mirrors should be user configurable, with the option of additional filters/mirrors.
3. System should be able to use as low as 20
4. Changing of filters/mirrors by user should not have any impact on alignment and should not need any user alignment.

A. Performance: -

1. Data acquisition rate: up to 25000 events/sec or more.
2. Particle size range; 0.5-50µm.
3. Fluorescence sensitivity.
4. ?90 ĩ,,200MESF for FITC.
5. ?40 MESF for PE.
6. ?70 MESF for APC.
7. Fluorescence resolution: CV <4% for the singlet peak of propidium iodide stained CEN.

A. Fluorescence detectors

1. High-performance solid-state silicon detector/PMT with two scatter detectors and 13 fluorescence detectors with interference filters optimized for the detection of FITC, PE, PerCP-CyTM5.5 and APC.

A. Sample volume and plate

1. Plate/tube compatibility: Inbuilt walk away automation for analysis from standard 96-well (flat, round and v-bottom) plate to 384 well plates/ deep- well 96-well plates.
2. 75mm tubes.
3. Minimum sample particle size 0.5 µm to 1 µm.
4. Side scatter resolution should be able to separate 0.5 µm beads from noise.
5. Uptake port with manual and automated station.
6. System maintenance automated startup, calibration, cleaning cycles and shutdown.

I. Software: -

1. System should come with a licensed software for data acquisition and analysis.
2. Software should allow for data analysis both in real time during data acquisition or post acquisition.
3. Should have both fully automated and manual compensation modes.
4. The software should feature complete full matrix compensation of all color detectors against each other that allows the user to compensate the signal from each channel out of every other channel.
5. Instrument tracking: automated baseline and performance test with Levey-Jennings plots or equivalent.
6. The software should have automated start- up/shut down and performance tracking capability.
7. Maximum number of events (**details of maximum events saved in a single file must be provided by the bidder/ vendors**).
8. All the maintenance functions, including unclog, de-bubble and system decontamination should be fully automated in the software, minimizing hands-on time.
9. Graphics resolution: publication-quality images (HD images).
10. User account maintenance: Administration and individual accounts with user log.
11. Gate: Standard and customizable gates.

I. Workstation (2 Nos):

1. Operating system: windowsTM 10 or macOS 10.13 High Sierra, 64 bit or similar (**must be clearly specified by bidder/vendor**).
2. Processor: Intel CoreTMi7 or higher specification (**must be clearly specified by bidder/vendor**).
3. RAM; 16 GB or similar specification (**must be clearly specified by bidder/vendor**).
4. Computer: Desktop.
5. Hard drives: 5TB (**must be clearly specified by bidder/vendor**).
6. Monitor: 21 inches or more (**must be clearly specified by bidder/vendor**).
7. Multifunction monochrome laser printer with auto duplex function (**one number**).

I. Other services Required:

1. Onsite/fully functional lab/factory application training to scientists and lab personals, free cost, including travel and accommodation during warranty and CMC/AMC period (if required).
2. The company should shift the complete instrumental set up and reinstall from one campus to another, free of cost as and when required.
3. Company should provide flow advanced offline analysis software(licensed version).
4. Mac book pro with latest version OS, intel i5, 16GB RAM, 512GB HDD for offline analysis.
5. The company should provide regular software updates whenever requires free of cost .
6. Should have safety certificate from a competent authority CE issued by a notified body registered in European commission / FDA (US) / STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate / test report shall be produced along with the technical bid.
7. Should be provided with online 2KVA UPS with 2 hr battery backup.
8. User demonstration with user sample has to be carried out. List of installation in various prominent institutions in India has to be produced. Testimonial(s) from Govt institution where the quoted instrument is working satisfactorily.