

BIDDER MUST HAVE TO SUBMITTED PART-III TECH BID PHYSICALLY IN TENDER ALONG WITH SIGN AND STAMPED. FAILING IN WHICH, WILL BE STRAIGHTWAY REJECTED.

(INST) (PART-III)				
PART III: TECHNICAL BID				
NAME OF EQUIPMENT : FLOW CYTOMETER			TENDER NO: 2526 RSV-18	
DEPARTMENT: PATHOLOGY DEPARTMENT				
MANUFACTURER :		BRAND :	MODEL :	
BIDDER NAME :			EMD : 3,15,000/-	
QTY: 1NOS.		TENDER FEE: 3600/- -TOTAL ESTIMATED VALUE FOR 1 UNIT (RS.): 1,05,00,000/-		
	REQUIRED SPECIFICATION		SPECIFICATIONS AVAILABLE IN OFFERED MODEL	MENTION REMARK, IF ANY DEVIATION
1.	Physical characteristics	<ul style="list-style-type: none"> • High end benchtop flowcytometer with standard laboratory power supply • Operating temperature 18-30 degree C • Operating humidity: 20-80%, non condensing 		
2.	Laser	<ul style="list-style-type: none"> • 3 essential solid state lasers(405nm violet, 488nm blue and 633 to 642 red). • The equipment should have dedicated beam-spots for each laser. • All lasers and their excitation and collection optics should be fixed aligned for data consistency and reliability on a day to day basis. 		
3.	Fluorescence detectors	<ul style="list-style-type: none"> • Minimum 8-13 fluorescence detectors with expandable Capacity. • All the fluorescence detector channels and side scatter channel must be designed with PMT/APD or equivalent detector for voltage optimization with stabilized CV & 		

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		minimal electronic noise contribution for achieving best resolution even for a dimly stained population.		
4.	Fluidics and sample handling	<ul style="list-style-type: none"> The system should be able to process at sample flow rates from 10microL to 200 microL per minute All fluid containers within instruments with active fluid level sensing should be capable of detecting clogging and bubbles. The system should have sample carryover of $\leq 0.1\%$ for rare cell populations discovery and novel marker identification. 		
5.	Performance matrix	<ul style="list-style-type: none"> Maximum acquisition rate upto 35,000 events/sec - allows rapid data collection for large or rare population. Total 8-13 parameters / 8-13 fluorescence channels. High quantum efficiency and detection sensitivity for fluorochromes. 		
6.	Software & Data Analysis	<ul style="list-style-type: none"> The system should be in a single tube acquisition format & upgradable in future to universal plate and tube loader platform which can accommodate minimum ≥ 30 tubes rack as well as plates support directly for complete walk away automation. Pulse Height, Area and Width information must be available for all parameters simultaneously to be able to discriminate doublets based on size, granularity & nucleic acid content. The system software should be able to do a single fluorochrome addition to an existing setting from a panel of reagents and recalculate the spillover matrix by 		

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		<p>running a single tube.</p> <ul style="list-style-type: none"> • Instrument software must be capable of exporting data as FCS files per population. • In addition, system software must allow data overlay of tubes in the same experiment & different experiment. 		
7.	Intended use	For clinical diagnosis and research purpose		
8.	Workstation	The system should be offered with suitable workstation.		
9.	Regulatory support	<ul style="list-style-type: none"> • System must have USFDA-IVD/CE-IVD/21CFR certificate for clinical trial, clinical research studies. • The instrument should support bi-directional LIS connectivity to eliminate transcription errors and future field up gradation for the same must be possible without changing the base instrument. 		
10.	Quality control	<ul style="list-style-type: none"> • System must be capable of standardization and collaboration between inter-lab/intra-lab through assay portability feature to maintain consistency in data quality. • The system generated compensation should be valid for a minimum of 60days and updated with daily QC. 		
11.	Application support	<ul style="list-style-type: none"> • Full onsite installation and application training by engineer should be provided. • The company must have Ahmedabad based service support & should have application support for as & when required for immediate support. • The vendor must have similar model installed in Gujarat for performance feedback/ reference/ demo purpose. 		
12.	Standard Accessories:			

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a)	All accessories required for standard installation, operation and daily maintenance		
b)	Computer, Printer and UPS with battery backup as per machine requirement.		
13.	Note:		
a)	The price list of consumables and reagents which run machine must be submitted with physical tenders.		