



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
Powai, Mumbai 400076.

PR No. 1000048594

RFx. No.6100002296

Film Array Multiplex PCR System

Sr. No	Item Description	Detailed Technical Specification	Technical Compliance (Yes / No)	Additional Information (if any)
1.	Absolute Quantification	A digital PCR system that enables absolute quantification of the target DNA/RNA. System should support multiplexing, multiplexed absolute quantification, copy number variation (CNV), gene expression analysis, gene editing analysis, mutation detection.		
2.	Comprehensive and Compact System	Comprehensive & Compact System: Table-top equipment with complete set of modules for automated partitioning (droplets/partitions), thermal cycling, data acquisition/Imaging module, software and hardware and parts for automated analysis of samples, process control and generation of result reports.		
3.	Comprehensive Software	System should be in-built with a comprehensive software for assay performance, programming, control, data capture, accurate data analysis, and interpretation of results leading to absolute quantification of the targets.		
4.	Software	System should be supplied with software suit to access, design and analyze comprehensive data produced from run under 3 hours.		

5.	Channels	System should offer minimum 5 channels or higher that can be configured for multiplex quantification of up to 12 target DNA or RNA molecules in a given assay, saving time and reagents.		
6.	Automated partitioning/droplet generation platform	System should have an automated partitioning/droplet generation platform resulting in fixed partitions to prevent variation in size & generate droplets/partitioning up to 25,000 or more.		
7.	Reactions	System should support running up to 96 reactions simultaneously.		
8.	Compatibility	System should be compatible with probe-based detection chemistry and Eva Green Chemistry.		
9.	Master Mixes	Vendor should provide validated Master Mixes to be used on Digital PCR System.		
10.	Partitions	Systems should be able to generate minimum 90% valid partitions per reaction well.		
11.	Online support	The system should be provided with the latest and OEM-recommended computer/laptop. Access to online support in performance and analysis of the system at no additional cost.		
12.	Certifications	System equipment and components should be certified/qualified with CE or equivalent certifications for electrical and personnel safety.		
13.	Supply of materials and consumables	Supply of materials and consumables along with the system shipment for the maintenance and calibration of the equipment.		
14.	Installations	Minimum of 15 installations in India.		
15.	Warranty of the system	One year		