Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 01, Item Name:Capillary Sequencer – 8 capillary with accessories				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
1	Page 52 para 28	The machine should be upgraded freely during the warranty period, if any newer version of software lunch. If the newer version of software require hardware up gradation (computer/server/Microsoft newer version) the vendor will supply the compatible hardware also without any additional cost.	Please reframe this point to: The machine should be upgraded freely during the warranty period, if any newer version of software launch. If the newer version of software require hardware up gradation (computer/server/Microsoft newer version) the vendor will supply the compatible hardware also without any additional cost only if hardware providing companies and Microsoft make any updation/ugradation	Amended as The machine should be upgraded freely during the warranty period, if any newer version of software launch. If the newer version of software require hardware up gradation (computer/server/Microsoft newer version) the vendor will supply the compatible hardware also without any additional cost only if hardware providing companies and Microsoft make any updation/ugradation

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 02, Item Name:Gradient PCR Multiwall with Accessories				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
1	Pg 52 Para 1	Quoted instrument should have 3 x 32/ 2 x 48 well block with option of Interchangeable blocks for optimization and throughput i.e. 2 X 96 well, 96 well and 384-Well	Quoted instrument should have 3 x 32/ 2 x 48 well block with option of Interchangeable blocks for optimization and throughput i.e., 1 X 96 well, 96 well and 384-Well. Justification:- 2x96 well format is only available with Thermo Fisher "Model Proflex" Lockon for one vendor.	Amended as Quoted instrument should have 3 x32/ 2 x 48 well block with option of Interchangeable blocks for optimization and throughput i.e., 1 X 96 well, 96 well and 384-Well.
2	Pg 52 Para 15	Wi-fi and Cloud – enabled, and also allow access the system remotely via cloud through a mobile application or desktop- preferably	Remove Justification:- Lock-on for one vendor. Not useful in real clinical working setup.	Amended as The line removed form specification
3	Pg 52 Para 5	Temperature Accuracy: ±0.25 °C (35 °C to 99.9 °C)	Temperature Accuracy: ±0.25 °C	changes not considered
4	Pg 52 Para 7	Temperature Range: 0 to 100.0 °C	Temperature Range: 4 to 100.0 °C	Amended as Temperature Range: 4 to 100.0 °C
5	Pg 52 Para 8	Temperature Uniformity: <0.5 °C	Temperature Uniformity: ±0.3°C to ±0.4°C.	Amended as Temperature Uniformity: ±0.3°C to ±0.4°C.
6	Pg 52 Para 9	Minimum Block Ramp Rate: 5.0 °C⁄sec ± 0.5	Minimum Block Ramp Rate: 4.0 °C⁄sec ± 0.6	Changes not considered

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 03, Item Name:Multiblock High throughput Real Time PCR with accessories				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
1	Pg 53 Para 2	All the necessary blocks change should be user changeable, and system must be quoted with 96 well and 384 well block.	All the necessary blocks change should be user changeable, and system must be quoted with 96 well and 384 well block. Or Separate 96 well and 384 well real time PCR should be quoted. Justification:- Lock-on Point to Thermo Fisher Scientific Model Quant Studio7. Justification:- Lock-on for one vendor. CCD Camera and White LED specific to Thermo Fisher Scientific Model QuantStudio 12K Flex Real-Time PCR System which now has been discontinued.	Amended as All the necessary blocks change should be user changeable, and system must be quoted with 96 well and 384 well block. Or Separate 96 well and 384 well real time PCR should be quoted.
2	Pg 53 Para 3 A	3. Optical System: a. Detection by CCD camera and excitation by white-light LED provides a broad spectrum of light-enabled capabilities with a maximum resolution of 12,000 data points.	Detection by CCD camera/photodiode/PMT and excitation by white-light LED or dedicated filtered LEDs.	Amended as Detection by CCD camera/photodiode/PMT/CMOS andexcitation by LED
3	Pg 54 Para 10	The normalization of reaction due to non-PCR related fluctuations possible by using any calibrated dye.	The normalization of reaction due to non-PCR related fluctuations possible by using any calibrated dye Or System should be independent of calibration dye like ROX. Justification:- Lockon point for Thermo Fisher Scientific Model Quantstudio7/ QuantStudio 12K Flex Real-Time PCR System.	Amended as The normalization of reaction due to non-PCR related fluctuations possible by using any calibrated dye Or System should be independent of calibration dye like ROX.
4	Pg 54 Para 11	Reaction volumes: The reaction volumes of the microfluidic chambers should be ≤ 1 microliter volumes; to facilitate reagents reducing and input DNA/cDNA to provide high quality data.	Remove. Justification:- Lock on point for Thermo Fisher Scientific Model Quantstudio7 / QuantStudio 12K Flex Real-Time PCR System which employes TILDA feature.	Amended as Delelted
5	Pg 54 Para 20	System preferably have TILDA block compatibility	Remove. Justification:- Lockon point for Thermo Fisher Scientific Model Quantstudio7/ QuantStudio 12K Flex Real-Time PCR System which employes TILDA feature.	Amended as Deleted
6	Pg 54 Para 21	All the three blocks 96 (0.1ml fast& 0.2ml),384 should be provided without additional cost.	Justification:- Lockon point for Thermo Fisher Scientific Model Quantstudio7/ QuantStudio 12K Flex Real-Time PCR System.	All the two RT-PCR or blocks 96 well and 384 well should be provided without additional cost.
7	Pg 54 Para 22	Instrument should support four different interchangeable blocks with formats that enable numerous genotyping, gene expression, and standard PCR applications, including digital PCR.	Remove. Justification:- Repetition of point 21.	Amendeda as Deleted

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 03, Item Name:Multiblock High throughput Real Time PCR with accessories				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
8	Pg 54 Para 23	System should have six independent excitation and emission filter channels and accommodates real-time sample 6 color multiplexing capability.	System should have six independent excitation and emission filters channels or Detectors and accommodates real-time sample 5 or more color multiplexing capability. Justification:- Lockon point for Thermo Fisher Scientific Model Quantstudio7/ QuantStudio 12K Flex Real-Time PCR System.	Amended as System should have six independent excitation and emission filter channels and accommodates real-time sample 5 color or more multiplexing capability.
9	Pg 54 Para 25	System should have capacity of 3 independent user interchangeable block of 96 well 0.2µl, 96 fast well 0.1µl, 384 well and . All the blocks should be included without additional cost.	Remove. Justification:- Repetition of point 21.	Amended as Deleted
10	Pg 54 Para 26	Also supplied with Magnetic bead based Automated DNA Extractor with UV Light decontamination, to process 96 samples at a time, Processing Volume: 10–5,000 µL, Heating 4°C above ambient temperature up to 100°C; cooling down to 4°C, Elution Volume-30 to 100µl, Internal in-built memory of at least 30GB, With Standalone Laminar hood wit UV light and Refrigerated centrifuge RPM 17850 RCF: 30200xG with Plate rotor for 4 Standard or 2 Deep well Plate, fixed angel rotor 24x1.5ml, Swing out rotor for 50ml for sample preparation.	Please reframe this point as: Also supplied with Magnetic bead based Automated DNA Extractor with Manufacturer recommended decontamination protocols , to process 96 samples at a time, Processing Volume: 10–5,000 µL depending on magnetic head & plastics consumables, Heating 4°C above ambient temperature up to 100°C; Elution Volume-30 to 100µl, Internal in-built memory of at least 30GB, With Standalone Laminar hood wit UV light and Refrigerated centrifuge RPM 17850 RCF: 30200xG with Plate rotor for 4 Standard or 2 Deep well Plate, fixed angel rotor 24x1.5ml, Swing out rotor for 50ml for sample preparation.	Amended as Also supplied with Magnetic bead based Automated DNA Extractor with Manufacturer recommended decontamination protocols , to process 96 samples at a time, Processing Volume: 10–5,000 µL depending on magnetic head & plastics consumables, Heating 4°C above ambient temperature up to 100°C; Elution Volume-30 to 100µl, Internal in-built memory of at least 30GB, With Standalone Laminar hood wit UV light and Refrigerated centrifuge RPM 17850 RCF: 30200xG with Plate rotor for 4 Standard or 2 Deep well Plate, fixed angel rotor 24x1.5ml, Swing out rotor for 50ml for sample preparation.

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 04, Item Name:Gel Documentation System				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
1	Pg 55 Para 1	Systems should image and analyse chemiluminescent western blots and stained Protein (Coomassie, silver, sypro, etc), DNA (EtBr, Sybr, etc) gels, colony plates, 2D strips, TLC plates and with Fluorescent imaging across 5 separate channels with RGB (Visible range), and near IR fluorophores (e.g., Alexa Fluor™ and Alexa Fluor Plus, DyLight™ dyes) with upto 4 channel multiplexing option.	Systems should image and analyze chemiluminescent western blots and stained Protein (Coomassie, silver, sypro, etc), DNA (EtBr, Sybr, etc) gels, colony plates, 2D strips, TLC plates and with fluorescent imaging across 5 separate channels with RGB (Visible range), and near IR fluorophores (e.g., Alexa Fluor™ and Alexa Fluor Plus, DyLight™ dyes) with upto 3 or more channel multiplexing option. Justification:- Lockon point. Please reframe this point as: Systems should image and analyse chemiluminescent western blots and stained Protein (Coomassie, silver, sypro, etc), DNA (EtBr, Sybr, etc) gels, colony plates, 2D strips, TLC plates and with Fluorescent imaging across 5 separate channels with RGB (Visible range), and near IR fluorophores (e.g., Alexa Fluor™ and Alexa Fluor Plus, DyLight™ dyes) with upto 3-4 channel multiplexing option. Systems should image and analyse chemiluminescent western blots and stained Protein (Coomassie, silver, sypro, etc), DNA (EtBr, Sybr, etc) gels, colony plates, 2D strips, TLC plates and with Fluorescent imaging across 5 separatechannels with RGB (Visible range), and near IR fluorophores (e.g., Alexa Fluor™ and Alexa Fluor Plus, DyLight™ dyes) with upto 3-4 channel multiplexing option.	Amended as Systems should image and analyze chemiluminescent western blots and stained Protein (Coomassie, silver, sypro, etc), DNA (EtBr, Sybr, etc) gels, colony plates, 2D strips, TLC plates and with fluorescent imaging across 5 separate channels with RGB (Visible range), and near IR fluorophores (e.g., Alexa Fluor™ and Alexa Fluor Plus, DyLight™ dyes) with upto 3 or more channel multiplexing option.
2	Pg 55 Para 2	Camera: True 16-bit cooled 6-9 megapixel or more high efficiency low noise CCD sensor with -30 ºC below ambient temperature.	Camera: True 16-bit cooled 6-9 megapixel or more high efficiency low noise CCD sensor with -30 ºC below ambient temperature or -15 ºC from absolute temperature. Justification:- Ambient or Room temperature are varying and different all the time and place. The statement is very open ended which impact the user experience and system performance. To avoid this, use absolute temperature term. Please reframe this point as: Camera: True 16-bit cooled 6-9 megapixel or more high efficiency low noise CCD sensor with -30 ºC below ambient temperature (please delete this feature) Camera: True 16-bit cooled 6-9 megapixel or more high efficiency low noise CCD sensor	Ammended as Camera: True 16-bit cooled 6-9 megapixel or more high efficiency low noise CCD sensor

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 04, Item Name:Gel Documentation System				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
3	Pg 55 Para 6	Illumination: Systems should utilize a transilluminator based on green LED,/UV which effectively excites popular DNA dyes such as ethidium bromide and SYBR and one epi white LED	Please reframe this point as: Illumination: Systems should utilize a transilluminator based on green LED,/UV which effectively excites popular DNA dyes such as ethidium bromide and SYBR Please delete one epi white LED Illumination: Systems should utilize a transilluminator based on green LED,/UV which effectively excites popular DNA dyes such as ethidium bromide and SYBR	Amended as Illumination: Systems should utilize a transilluminator based on green LED,/UV which effectively excites popular DNA dyes such as ethidium bromide and SYBR
4	Pg 55 Para 8	System should possess built-in roll out LED transilluminator with sample view stage size of 22cm x 18 cm or more	System should possess built-in roll out LED transilluminator with sample view stage size of 20cm x 16 cm or more. Justification:- Lockon point. Please reframe this point as: System should possess built-in roll out LED transilluminator with sample view stage size of 21cm x 16 cm or more System should possess built-in roll out LED transilluminator with sample view stage size of 21cm x 16 cm or more	Amended as System should possess built-in roll out LED transilluminator with sample view stage size of 20cm x 16 cm or more.
5	Pg 55 Para 10	Filter Wheel and filters: 12 position motorized filter wheel for capturing images	Please reframe this point as: Filter Wheel and filters: 10- 12 position motorized filter wheel for capturing images Filter Wheel and filters: 10- 12 position motorized filter wheel for capturing images	Amended as Filter Wheel and filters: 10- 12 position motorized filter wheel for capturing images
6	Pg 55 Para 16	The system should have molecular weight marker (MWM) overlay feature to allows users to perform molecular weight determination using a colorimetric molecular weight marker in the membrane channel and combining it with the corresponding chemiluminescent image.	The system should have molecular weight marker (MWM) overlay feature during analysis to allows users to perform molecular weight determination using a colorimetric molecular weight marker in the membrane channel and combining it with the corresponding chemiluminescent image. Justification:- Generalize the specs.	Amended as The system should have molecular weight marker (MWM) overlay feature during analysis to allows users to perform molecular weight determination using a colorimetric molecular weight marker in the membrane channel and combining it with the corresponding chemiluminescent image.

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 05, Item Name:Rotor Base Real Time PCR System				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
1	Page 57 Para 1	Real time PCR system that works on Air based technology offering temperature range from Ambient (Room temperature) to 95oC.	Quoted instrument should have Air based technology offering temperature range from Ambient (Room temperature) to 95 OC / Peltier based Cooling & Heating with Temp range 4– 100 OC Justification:- Air based technology only available with QIAGEN. Lock on for one vendor.	Changes not considered
			Quoted instrument should have Air based technology offering temperature range from Ambient (Room temperature) to 95 OC / Peltier based Cooling & Heating with Temp range 4– 100 OC. Specification is favourong particular brand	
2	Page 57 Para 2	It should be Rotor based real time PCR system	Quoted instrument should have Rotor based real time PCR system/ 96 well plate-based system. Justification:- Rotor based real time PCR system only available with QIAGEN. Lock-on for one vendor.	Changes not considered
			Quoted instrument should have Rotor based real time PCR system/ 96 well plate-based system. Specification is favourong particular brand	
3	Page 57 Para 8	System should offer sample ran from 36 & 72 Format, Reaction volume:- 10 to 50 microliter	System should offer sample ran from 36 & 72 Format/96 well plate-based format Justification:- 36 and 72 Format only available with QIAGEN.	Changes not considered
			System should offer sample ran from 36 & 72 Format/96 well plate-based format Specification is favourong particular brand	
4	Page 57 Para 9	Ramp rate should be >10°C/second heating; >10°C/second cooling	Quoted instrument Ramp rate should be >10°C/second heating; >10°C/second cooling/system should have maximum ramp rate for of 5.0°C/sec or more. Justification:- Lock on for one vendor	Changes not considered

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 05, Item Name:Rotor Base Real Time PCR System				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
4			Quoted instrument Ramp rate should be >10°C/second heating; >10°C/second cooling/system should have maximum Specification is favourong particular brand	

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 10, Item Name:Next Generation Sequencing With Automated Library Preparation and Reporting Server with accessories				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
1	Pg 63 Para 4	System should have capability to generate data output of 20 GB or more high-quality filter data from a single run.	System should have capability to generate data output of 80 GB or more high-quality filter data from a single run. Justification:- For whole human exome sequencing/somatic and transcriptome sequencing for clinical sample system requires atleast this much data output.	Changes not considered
			System should have capability to generate data output of 80 GB or more high-quality filter data from a single run. Justification:- For whole human exome sequencing/somatic and transcriptome sequencing for clinical sample system requires atleast this much data output.	
			System should have capability to generate data output of 80 GB or more high-quality filter data from a single run. For WES sequencing/somatic and transcriptome sequencing for clinical sample system requires at least this much data output.	
2	Pg 63 Para 5	The system should be able to generate at least 100 million reads or more from single/pair end from single sequencing run.	The system should be able to generate at least 100-400 million reads or more from single/pair end from single sequencing run. Justification:- As the procurement is for national cancer institute where exome sequencing can be commonly used for critical unknown cancer samples (hard to classify) so the facility should be developed keeping the future requirement. Human WES from tissue/FFPE samples requires atleast 150-200M reads per sample whereas the current specification doesn't meet this criteria.	Changes not considered
			The system should be able to generate at least 100-400 million reads or more from single/pair end from single sequencing run. Justification:- As the procurement is for national cancer institute where exome sequencing can be commonly used for critical unknown cancer samples (hard to classify) so the facility should be developed keeping the future requirement. Human WES from tissue/FFPE samples requires atleast 150-200M reads per sample whereas the current specification doesn't meet this criteria.	

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 10, Item Name:Next Generation Sequencing With Automated Library Preparation and Reporting Server with accessories				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
			The system should be able to generate at least 100-400 million reads or more from single/pair end from single sequencing run. Human WES from tissue/FFPE samples requires atleast 150-200M reads per sample whereas the current specification doesn't meet this criteria.	
3	Pg 63 Para 6	System should support read length of 200bp, 400bp & 600 bp from single/ pair end sequencing or better for various applications.	System should support readlength of 200bp, 400bp & 600 bp from single/ pair end sequencing or better for various applications and can generate atleast 20GB of data from 600 bp sequencing. Justification:- Higher read length required for HLA typing & 16s metagenomics other applications.	Changes not considered
			System should support read length of 200bp, 400bp & 600 bp from single/ pair end sequencing or better for various applications and can generate atleast 20GB of data from 600 bp sequencing. Justification:- Higher read length required for HLA typing & 16s metagenomics other applications.	
			System should support read length of 200bp, 400bp & 600 bp from single/ pair end sequencing or better for various applications and can generate atleast 20GB of data from 600 bp sequencing. Higher read length required for HLA typing & 16s metagenomics	
	Pg 63 Para 7	System should include a powerful on-board hardware with at least 20 TB of usable data storage capacity and must include all necessary software components to deliver signal processing, base calling, read alignment, variant calling, QC report for data, and downstream secondary analysis of data.	System should include a powerful on-board/external hardware with at least 20 TB of usable data storage capacity and must include all necessary software components to deliver signal processing, base calling, read alignment, variant calling, QC report for data, and downstream secondary analysis of data. Justification:- Lock in point	Amended as System should include a powerful on-board/external hardware with at least 20 TB of usable data storage capacity and must include all necessary software components to deliver signal processing, base calling, read alignment, variant calling, QC report for data, and downstream secondary analysis of data.

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 10, Item Name:Next Generation Sequencing With Automated Library Preparation and Reporting Server with accessories				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
4			System should include a powerful on-board/external hardware with at least 20 TB of usable data storage capacity and must include all necessary software components to deliver signal processing, base calling, read alignment, variant calling, QC report for data, and downstream secondary analysis of data. Justification:- Lock in point	
			System should include a powerful onboard/ external hardware with at least 20 TB of usable data storage capacity and must include all necessary software components to deliver signal processing, base calling, read alignment, variant calling, QC report for data, and downstream secondary analysis of data. Specification is favoring a particular brand	
5	Pg 63 Para 8	A powerful server, optimized software suite with graphical user interface for data analysis of NGS data in clinical research and faster reporting. System should be built upon hardware with at least dual 10 cores or more CPU, 128 GB of RAM and at least 15 tera byte of usable storage for efficient data storage, analysis and reporting. System should be provided with workflows to support various research applications in the area of oncology, inherited disease & infectious disease. The system should have access to decision-making software to generate report against proper guidelines, therapies, and clinical trials to assist and interpret the results of the clinical samples. System should be provided with analysis workflows to be able to support the analysis of single sample, paired sample, tumor/normal sample, CNV detection, family trio analysis and 16s Metagenomics. The database for variant calling should be update continuously throughout the	A powerful onboard/external server, optimized software suite with graphical user interface for data analysis of NGS data in clinical research and faster reporting. Justification:- Lock in point	Ammendeed as A powerful onboard/external server, optimized software suite with graphical user interface for data analysis of NGS data in clinical research and faster reporting.
			A powerful onboard/external server, optimized software suite with graphical user interface for data analysis of NGS data in clinical research and faster reporting. Justification:- Lock in point	
			A powerful onboard/external server, optimized software suite with graphical user interface for data analysis of NGS data in clinical research and faster reporting. Specification is favoring a particular brand	

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 10, Item Name:Next Generation Sequencing With Automated Library Preparation and Reporting Server with accessories				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
6	Pg 64 Para 14	should provided 16 runs of each 15-20 millinon, 70-80 million and 100-130 million reads consumables including Library prep without additional cost. Also include two custom panel for 50 cases.	should provided 16 runs of various flowcells/chip including consumables, including Library prep without additional cost. Also include two custom panel for 50 cases. Justification:- Lockon as per only one vendor format.	Amended as should provided 8 runs of 15-20 millinon and 8 runs of 60-80 millons read or more each various flowcells/chip including consumables, including Library prep without additional cost. Also include two custom panel for 50 cases.
			should provided 16 runs of various flowcells/chip including consumables, including Library prep without additional cost. Also include two custom panel for 50 cases. Justification:- Lockon as per only one vendor format.	
			Please delete No. of amplicons should be mentioned in custom panel	Minumim of 50 gene solid tumor panel and another 300 hotspot panel shared later
			should provided 16 runs of various flowcells/chip including consumables, including Library prep without additional cost. Also include two custom panel for 50 cases. Specification is favoring a particular brand	Amended as should provided 8 runs of 15-20 millinon and 8 runs of 60-80 millons read or more each various flowcells/chip including consumables, including Library prep without additional cost. Also include two custom panel for 50 cases.
7	Pg 64 Para 15	Must include fully automated walkaway solution for Library preparation.	Must include fully automated walkaway solution for Library preparation for atleast 24 samples or more in single run. Justification:- As the instrumentation is for NCI central facility, where minimum 24 samples output required for automated library preparation	Amended as Automated Library prepration deleted
			Must include fully automated walkaway solution for Library preparation for atleast 24 samples or more in single run. Justification:- As the instrumentation is for NCI central facility, where minimum 24 samples output required for automated library preparation	Amended as Automated Library prepration is deleted
			Must include fully automated walkaway solution for Library preparation for atleast 24 samples or more in single run. Specification is favoring a particular brand	

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 10, Item Name:Next Generation Sequencing With Automated Library Preparation and Reporting Server with accessories				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
8	Pg 64 Para 24	Must supply compatible kits for library preparation , sequencing and barcoding to test the machine	Please specify the number of kits to be provided	Amended as Library kit for 100 reactin, sequencing kit for 16 run and atleast 1-30 barcode
9	Pg 64 Para 34	The machine should be upgraded freely during the warranty period, if any newer version of software lunch. If the newer version of software require hardware up gradation (computer/server/Microsoft newer version) the vendor will supply the compatible hardware also without any additional cost.	Please reframe this point to: The machine should be upgraded freely during the warranty period, if any newer version of software launch. If the newer version of software require hardware up gradation (computer/server/Microsoft newer version) the vendor will supply the compatible hardware also without any additional cost only if hardware providing companies and Microsoft make any updation/ugradation	Amended as The machine should be upgraded freely during the warranty period, if any newer version of software launch. If the newer version of software require hardware up gradation (computer/server/Microsoft newer version) the vendor will supply the compatible hardware also without any additional cost only if hardware providing companies and Microsoft make any updation/ugradation

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 11, Item Name:Fully automated next generation sequencer with accessories				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
1	Pg 65 Para 1	System should have rapid turnaround time from nucleic acid to report in a single day.	System should have rapid turnaround time from nucleic acid to report up to 2days.	Ammended as System should have rapid turnaround time from nucleic acid to report up to 2days
			System should have rapid turnaround time from nucleic acid to report up to 2days.	
			System should have rapid turnaround time from nucleic acid to report up to 2days. Specification is favoring a particular brand	
2	Pg 65 Para 4	Automated Library prep, Templating, sequencing, and reporting should be integrated on one instrument with a setup-and-go workflow.	Library prep, Automated Templating, sequencing, and reporting should be part of the complete instrument setup for streamline workflow.	Ammended as Automated Library prep, Templating, sequencing, and reporting either integrated on one instrument or separate with a setup of streamline workflow.
			Library prep, Automated Templating, sequencing, and reporting should be part of the complete instrument setup for streamline workflow.	
			Library prep, Automated Templating, sequencing, and reporting should be part of the complete instrument setup for streamline workflow. Specification is favoring a particular brand	

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 11, Item Name:Fully automated next generation sequencer with accessories				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
3	Pg 66 Para 7	System should be robust and user friendly with prefilled reagents and preset instrument protocols, requiring one touchpoint and as little as 10 min of total hands-on time for setup and should not require any further user intervention from nucleic acid to variant report.	System should be robust and user-friendly streamlined workflow for setup and should not require any further user intervention from nucleic acid to variant report.	Amended as System should be robust and user-friendly streamlined workflow for setup and should not require any further user intervention from nucleic acid to variant report.
			System should be robust and user-friendly streamlined workflow for setup and should not require any further user intervention from nucleic acid to variant report.	Amended as System should be robust and user-friendly streamlined workflow for setup and should not require any further user intervention from nucleic acid to variant report.
			System should be robust and userfriendly streamlined workflow for setup and should not require any further user intervention from nucleic acid to variant report. Specification is favoring a particular brand	
4	Pg 66 Para 8	System should support single end 12-15M reads per lane and 48-60M reads on a full chip to support multiple applications.	System should support single/paired end 50M or more reads per flowcell/Chip to support multiple applications.	Amended as System should support single end 60M reads or more in a single chip or flow cell
			System should support single/paired end 50M or more reads per flowcell/Chip to support multiple applications.	

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 11, Item Name:Fully automated next generation sequencer with accessories				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
			System should support single/paired end 50M or more reads per flowcell/Chip to support multiple applications. Specification is favoring a particular brand	Amended as System should support single end 60M reads or more in a single chip or flow cell
5	Pg 66 Para 9	The instrument should support 100bp to 400bp single end sequencing read length.	The instrument should support 100bp to 600bp single/paired end sequencing read length.	Changes not considered
			The instrument should support 100bp to 600bp single/paired end sequencing read length.	
			The instrument should support 100bp to 600bp single/paired end sequencing read length. Specification is favoring a particular brand	
6	Pg 66 Para 12	The software should provide a summary of consumables that need to be installed in the integrated sequencer based on the run plan and should provide onboard vision system that verifies consumable placement using and user real-time alerts of any errors through automated barcode scanning.	The software should provide a summary of consumables that need to be installed in the sequencer based on the run plan and should provide onboard vision system that verifies consumable placement using and user real-time alerts of any errors through automated barcode scanning.	Ammended as The software should provide a summary of consumables that need to be installed in the sequencer based on the run plan and should provide onboard vision system that verifies consumable placement using and user real-time alerts of any errors through automated barcode scanning.

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 11, Item Name:Fully automated next generation sequencer with accessories				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
			The software should provide a summary of consumables that need to be installed in the sequencer based on the run plan and should provide onboard vision system that verifies consumable placement using and user real-time alerts of any errors through automated barcode scanning.	
7	Pg 66 Para 13	The instrument should be able to track the usage of the lanes on the sequencing chip, barcodes on the barcode plate, and the sequencing reagent and nucleotide volumes to facilitate the reuse	The instrument should be able to track the real time sequencing run.	Ammended as The instrument should be able to track the real time sequencing run.
			The instrument should be able to track the real time sequencing run.	

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 11, Item Name:Fully automated next generation sequencer with accessories				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
8	Pg 66 Para 16	Manufacturer should have their own readymade panels for different cancers to detect Mutations, Indels, CNVs and gene fusion from DNA and RNA in a single workflow: such as solid tumor multi biomarker (>50 genes) assay, more comprehensive panel (with 160 genes), Myeloid panel, cell free panels for critical liquid biopsy samples and immune-oncology panels as T cell characterization. Limit of detection for the cell free panels should be 0.1 % or better. Vendor should provide comprehensive assay design and development guidelines for instrument.	Please reframe this point as: Manufacturer should have their own readymade panels for different cancers to detect Mutations, Indels, CNVs and gene fusion from DNA and RNA in a single workflow: such as solid tumor multi biomarker (>50 genes) assay, more comprehensive panel (with 160 genes), Myeloid panel, cell free panels for critical liquid biopsy samples (50 genes total NA panel) and immune-oncology panels as T cell characterization. System should also be comapatible with 500 gene multiple biomarker solid tumor assay (DNA, RNA, TMB MSI, HRR, HRD) In near future. Limit of detection for the cell free panels should be 0.1 % or better. Vendor should provide comprehensive assay design and development guidelines for instrument	Acceptable Manufacturer should have their own readymade panels for different cancers to detect Mutations, Indels, CNVs and gene fusion from DNA and RNA in a single workflow: such as solid tumor multi biomarker (>50 genes) assay, more comprehensive panel (with 160 genes), Myeloid panel, cell free panels for critical liquid biopsy samples (50 genes total NA panel) and immune-oncology panels as T cell characterization. System should also be comapatible with 500 gene multiple biomarker solid tumor assay (DNA, RNA, TMB MSI, HRR, HRD) In near future. Limit of detection for the cell free panels should be 0.1 % or better. Vendor should provide comprehensive assay design and development guidelines for instrument
9	Pg 66 Para 17	The vendor should provide an installation and training kit to enable users to perform functional tests during installation and training.	Please specify the quantity of the kits	
10	Pg 66 Para 18	The instrument preferably manufactured at an FDAregistered and ISO 13485– certified facility and should be CE – IVD mode.	Please Remove as this is lockin point	Amended as The quotaed model should be either CE IVD or DX model
			Please Remove as this is lockin point	Amended as

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 11, Item Name:Fully automated next generation sequencer with accessories				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
			Please reframe this point as: The instrument preferably manufactured at an FDA-registered and ISO 13485–certified facility and should be both RUO and CE – IVD	The quotaed model should be either CE IVD or DX model
11	Pg 66 Para 19	At least 50 chip or equivalent for seqencing and consumables for the same must be included without any additional cost	At least 50 chip/flowcells or equivalent for sequencing and consumables for the same must be included without any additional cost	Acceptable At least 50 chip/flowcells each having 60 million or more single end read or equivalent for sequencing and consumables for the same must be included without any additional cost
			At least 50 chip/flowcells or equivalent for sequencing and consumables for the same must be included without any additional cost	
			Please clarify or breakup this point	Acceptable 50 chip/ Flow cell with capacity of 50 million single end read Consumable except targeted panel for including library prep, barcode for 500 cases (1-30), sequencing consumable without additional cost

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 13, Item Name:Digital PCR with accessories				
Sr. No.	Tender Specification Page & Para	TENDER SPECIFICATION	REPRESENTATION RECEIVED FROM THE FIRM	Reply to Pre-bid Queries
1	Page 68 Para 1	System should have integrated compartmentalization, thermal cycling and data acquisition of at least 4 targets in a single instrument workflow helping in reducing errors, multiple inventories and hassle-free workflow to minimize hands on time to 5-10 mins.	The Digital PCR system should be an automated platform with either micro fluidic nanoplate or microchamber based or dropletbased technology. System should be able to perform partitioning, cycling, acquisition and analysis. Justification:- The inclusion of suggestive changes would allow the wider participation from world-class manufacturer/s. The availability of multiple instruments in a work-flow would provide the option of multiple checkpoints, quality-control, troubleshooting and parallel additional utilities at different steps (partitioning, sealing, amplification and data acquisition/analysis) in a work-flow.	Changes not considered
2	Page 68 Para 4	System must have starting reaction volume up to 20 µl with 20,000 uniform partitions.	Please reframe this point as: System must have starting reaction volume from 6µl-40 µl with 20,000 uniform partitions.	Amended as System must have starting reaction volume from 6µl-40 µl with 20,000 uniform partitions.
3	Page 69 Para 7	System should include high-power LED (light-emitting diode) sources and CMOS imager for data acquisition and must be able to collect data for each filter combination in <2 seconds.	System should include highpower LED (light-emitting diode) sources and CMOS imager or multipixel photon counter for data acquisition. Justification:- Detection of each droplet (compartment) individually by Multipixel photon counter, is proven to be much more sensitive than a single image of entire compartment acquired using a CMOS camera; thus, compromising on the sensitivity. Also, the detection in BioddPCR system happens by analyzing each compartment (droplet) individually, which provides and option of performing multiplexing assays (upto 4-6 colors) in a single well of a PCR plate.	Amended as System should include highpower LED (light-emitting diode) sources and CMOS imager or multipixel photon counter for data acquisition
4	Page 69 Para 9	The system should be capable of analyzing up to 16 samples in one go within 1.5 hours.	The system should be capable of analyzing from one (01) to ninety-six (96) samples in one go. Time to result for one (01) sample should be less than three (03) hours and the instrument must be able to read and interpret the data for ninety-six (96) samples from a plate within five (05) hours and thirty (30) minutes. Justification:- The QX-200 ddPCR system from Bio- Rad works on the most sensitive detection principle, where each compartment is analysed individually to provide maximum sensitivity and reproducibility.	Ammended as The system should be capable of analyzing from one (01) to 15 samples or more in one go. Time to result for sample should be less than three (03) hours

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 13, Item Name:Digital PCR with accessories				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
			Please reframe this point as: The system should be capable of analyzing up to 16 samples in one go within 2 hours.	
5	Page 69 Para 10	System should be able to provide multiplexing with at least 4 optical channels along with 1 reference channel to enable more targets to be measured per sample saving time and reagents.	System should be able to provide multiplexing upto four (04) targets to be measured per sample saving time and reagents. Justification:- Bio- -200 ddPCR platform is capable and proven (multiple publications) to perform multiplexing for four (04) individual targets in a single well even with the existing dual sources of light and detectors. The following attribute is possible due to the unique detection capability where each partition (droplet) is interrogated and analysed individually.	Amended as System should be able to provide multiplexing with at least 4 optical channels
6	Page 69 Para 11	System should have the flexibility of running four (04), eight (08), twelve (12) or sixteen (16) samples at a time thus supporting minimum wastage of reagents.	The system should be flexible of analyzing from one (01) to ninety-six (96) samples in a single go. Justification:- The following inclusion would provide the flexibility to run and analyse different probes/samples in a same run; with an option of interpreting a complete ninety-six (96) well plate to avoid wastage, lessen the turn-around-time (TAT) and significantly reduce the running cost (CPT).	Amended as The system should be flexible of analyzing from one (04) to 16 sample or more samples in a single go
7	Page 69 Para 15	System should be compatible with both dye based and probe based chemistry. Also, applications like Liquid Biopsy Digital PCR assays for oncology, TaqMan assays for gene expression, genetic variation, gene regulation, and other quantification experiments should be compatible with the system.	System should be compatible with both dye based and probe based chemistry, along with multiplexing capability using both chemistries (dye and probe). Also, applications like Liquid Biopsy Digital PCR assays for oncology, TaqMan assays for gene expression, genetic variation, gene regulation, and other quantification experiments should be compatible with the system. Justification:- Bio-Rad QX -200 ddPCR platform is the only digital PCR capable of performing multiplexing even with the dye based chemistry. The following is possible due to the unique capability where each partition (droplet) is interrogated and analysed individually.	Amended as System should be compatible with both dye based and probe based chemistry, aAlso, applications like Liquid Biopsy Digital PCR assays for oncology, TaqMan assays for gene expression, genetic variation, gene regulation, and other quantification experiments should be compatible with the system. Multiplexing capability either dye or probe.
8	Page 69 Para 19	Software should be able to detect fluorescence like FAM™, HEX™, VIC™, ABY™, ROX™, and JUN™ like dyes.	Please reframe this point as: Software should be able to detect fluorescence like FAM™, HEX™, VIC™, ABY™, ROX™, and JUN™ or similar dyes.	Amended as Software should be able to detect fluorescence like FAM™, HEX™, VIC™, ABY™, ROX™, and JUN™ or similar dyes.

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 13, Item Name:Digital PCR with accessories				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
9	Page 69 Para 25	Must be be supplied with An automatic system for extraction of contamination- free DNA, RNA from a range of sample types, Such as Whole Blood, Cells, Tissue, FFPE Tissue, Wastewater, Circulating Cell Free DNA and RNA from Plasma, miRNA from Tissue, Plasma and Serum & viral total nucleic acid (RNA and DNA) from serum, plasma using magnetic bead based chemistry. should use cartridges Pre-Filled with reagents and paramagnetic particles .should work in stand-alone mode and/or Tablet / PC controlled mode. Should have in-built UV sterilization. System should extract genomic DNA from multiple different human sample types in a single instrument run. Compatible sample types include human whole blood, buffy coat, bone marrow, buccal swabs, tissues, and cells isolated from tissue cultures or various biological fluids such as urine and amniotic fluid. Without any additional Cost	Please reframe this point as: Must be be supplied with An automatic system for extraction of contamination- free DNA, RNA from a range of sample types, Such as Whole Blood, Cells, Tissue, FFPE Tissue, Wastewater, Circulating Cell Free DNA and RNA from Plasma, miRNA from Tissue, Plasma and Serum & viral total nucleic acid (RNA and DNA) from serum, plasma using magnetic bead based chemistry. should use cartridges Pre-Filled with reagents and paramagnetic particles .should work in stand-alone mode and/or Tablet / PC controlled mode. Should have in-built UV sterilization. (Delete the highlighted wording) System should extract genomic DNA from multiple different human sample types in a single instrument run. Compatible sample types include human whole blood, buffy coat, bone marrow, buccal swabs, tissues, and cells isolated from tissue cultures or various biological fluids such as urine and amniotic fluid. Without any additional Cost	Ammended as Must be be supplied with An automatic system for extraction of contamination- free DNA, RNA from a range of sample types, Such as Whole Blood, Cells, Tissue, FFPE Tissue, Wastewater, Circulating Cell Free DNA and RNA from Plasma, miRNA from Tissue, Plasma and Serum & viral total nucleic acid (RNA and DNA) from serum, plasma using magnetic bead based chemistry. should use cartridges Pre-Filled with reagents and paramagnetic particles .should work in stand-alone mode and/or Tablet / PC controlled mode. Should have in-built UV sterilization. (Delete the highlighted wording) System should extract genomic DNA from multiple different human sample types in a single instrument run. Compatible sample types include human whole blood, buffy coat, bone marrow, buccal swabs, tissues, and cells isolated from tissue cultures or various biological fluids such as urine and amniotic fluid. Without any additional Cost
10	Page 69 Para 32	The vendor will perform IQ/OQ during installation and PQ every year as per NABL recommendation	Please specify the PQ	Amended as Same PQ to be done veery year

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 14, Item Name:Digital Slide Scanning System				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
1	Page 70 Para 2	The scanner should be able to intake minimum 300 slides or more in one go (at one time).	Please reframe this point as: "The scanner should be able to intake minimum 400 slides or more in one go (at one time)." Reason: the future expansion of the lab will require high throughput scanner in order to bring core pathology on digitization mode.	Amended as The scanner should be able to intake 300 or more slides more in one go (at one time)

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 15, Item Name:Flowcytometer with accessories				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
1	Pg 75 Para 1	System should be a bench-top flow-cytometer with minimum 4 laser (blue, red, Violet and UV/yellow green) and 14 color configurations.	System should be a bench-topfl ow-cytometer with minimum3 laser (blue, red, Violet) and12 color configurations. Remarks:- All the available Flow cytometer fromdiff erent Manufacturers used forclinical assays (CE-IVD Approved) canbe confi gured up to Max. 3 Laser 12color configurations.	Ammended as System should be a bench-topfl ow-cytometer with minimum3 laser (blue, red, Violet) or more and12 color or more configurations. CE IVD is desierable but not mandatory
			Please reframe this point as: System should be a bench-top flow-cytometer with minimum 3 laser (blue, red, Violet) and 12 color configurations. Reason: All the available Flow cytometer from different Manufacturers used for clinical assays (CE-IVD Approved) can be configured up to Max. 3 Laser 12 color configurations.	
2	Pg 75 Para 10	The system should providesensiti vity: ≤80 MESF-FITC &≤30MESF-PE	The system should providesensiti vity: ≤85 MESF-FITC&≤30 MESF-PE. Remarks:- For wider participation.	Acceptable The system should providesensiti vity: ≤85 MESF-FITC&≤30 MESF-PE
			Please reframe this point as: The system should provide sensitivity: ≤85 MESF-FITC &≤30 MESF-PE Reason: For wider participation.	

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Item no 16, Item Name:Imaging & Analysis For Cytogenetics – Fully Motorized System Digital Slide Scanner (Metaphase Finder System)				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
1	Page 78 Para 16	Camera :Monochrome , Resolution: 4 MP or higher , Resolution (HxV) – 2448px X 2048px. Sensor Type: CMOS/CCD, Frame Rate: 30fps. Pixel bit depth: 12-bit . Pixel Size (HxV): 3.45µm X 3.45µm Global shutter USB3.0 interface	Please note that point no. 26 of the tender specifications mentions requirement of 'Immunohistochemistry interpretation', for which a colour camera is required. All other applications like FISH & Karyotyping can also be performed with the same colour camera. Therefore, this point should be read as:- Camera: Colour, Resolution: 4 MP or higher, Resolution (HxV) – 2448px X 2048px. Sensor Type: CMOS/CCD, Frame Rate: 30fps. Pixel bit depth: 12-bit. Pixel Size (HxV): 3.45µm X 3.45µm Global shutter USB3.0 interface. The same camera should work for Karyotyping, FISH & IHC.	Ammended as Camera: Colour/ monochrome , Resolution: 4 MP or higher, Resolution (HxV) – 2448px X 2048px. Sensor Type: CMOS/CCD, Frame Rate: 30fps. Pixel bit depth: 12-bit. Pixel Size (HxV): 3.45µm X 3.45µm Global shutter USB3.0 interface. The camera should work for Karyotyping and FISH. For IHC same camera or another compatible camera may be supplied.
			Please note that point no. 26 of the tender specifications mentions requirement of 'Immunohistochemistry interpretation', for which a colour camera is required. All other applications like FISH & Karyotyping can also be performed with the same colour camera. Therefore, this point should be read as:- Camera: Colour, Resolution: 4 MP or higher, Resolution (HxV) – 2448px X 2048px. Sensor Type: CMOS/CCD, Frame Rate: 30fps. Pixel bit depth: 12-bit. Pixel Size (HxV): 3.45µm X 3.45µm Global shutter USB3.0 interface	Ammended as

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Molecular Pathology test Menu				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
1		NGS test Menu NGS Tumor Specific Panels NGS MPN Panel NGS 500 comprehensive gene panel NGS Cell free Lung NGS Hereditary cancer panel	Individuals panels HRR pathway 28 genes at least 69 genes Add SNVs, CNVs Fusions, TMB MSI HRR and HRD TNA- CNV fusion and hotspots 12 genes 35 genes minimum and could be custom designed	Amended as Individuals panels HRR pathway 25 genes more related to tumor MPN Panel- Atleast 60 genes Scomprehensive gene panel must have - At least 500 genes should include SNV,CNV and fusions Lung cell free- At least 10 genes including fusion Heridetary gene- At least 35 common gene described
2		Digital PCR Test Panel addition request		Changes not considered
3	32	Digital PCR EGFR Driver Mutation Panel for NSCLC liquid biopsy testing	EGFR Driver Mutation Panel for Targeting T790M and L858R mutations in a single tube multiplex assay along with wild type for fractional abundance calculation	Changes not considered
4	33	Digital PCR EGFR Drug Resistance Panel for NSCLC liquid biopsy testing	EGFR Drug Resistance Panel Targeting T790M, C797S T>A, C797S G>C, L792F, L718Q mutations in a single tube multiplex assay along with wild type for fractional abundance calculation	Changes not considered
5	34	Digital PCR EGFR Low Frequency mutation panel for NSCLC liquid biopsy testing	EGFR Low Frequency mutation panel Targeting L861Q, G719C, G719S, S768I mutations in a single tube multiplex assay along with wild type for fractional abundance calculation	Changes not considered
6			Please delete the column of Make/Model, HSN Code and Catalogue No. from annexure-2 as this annexure represents the test menu which included various parameters. Hence it will be difficult to mention the HSN, Cat no and Make of individual components	Changes not considered

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Commercial Queries				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
1	15.11	The supplier along with its Manufacturer, Indian Agent and the CAMC provider shall ensure continued supply of the spare parts for the machines and equipment supplied by them to the purchaser for 10 years from the date of installation and handing over.	Please amend this as below: "Spares for the equipment shall be available for 10 years or 5 years from the date of discontinuation of supplied equipment (whichever is earlier).	Changes not considered
2	18.1	The bidder shall provide in its bid the required as well as the relevant documents like technical data, literature, drawings etc. to establish that the goods and services offered in the bid fully conform to the goods and services specified by the purchaser in the Bidding Documents.	The service related documents will n ot be submitted however operating manuals can be provided	Cnages not considered
3	21.1 C	Payment for Comprehensive Annual Maintenance Contract Charges: The consignee will enter into CAMC with the supplier at the rates as stipulated in the contract. The payment of CAMC will be made on six monthly basis after satisfactory completion of said period, duly certified by the End User on receipt of bank guarantee for an amount equivalent to 2.5% of the cost of the equipment valid till 2 months after expiry of entire CAMC period.	Please consider the bank guarantee for CAMC contract proportional to contract value not the instrument value	Changes not considered
4	Section VII	L1 Ranking and Payment L1 calculation will be based on the total cost of CAPEX + price of all Annexures + NPV of CAMC from 6th to 10th year	Please exclude annexure 4 & 5 from L1 evaluation criterion as the cost of the items mentioned in these annexures are already been considered for CPT calculation, hence it may repeat the cost which will impact the commercial aspect of the tender.	Changes not considered

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Commercial Queries				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
5	Section VII	Penalty Clause The vendor will keep adequate facilities to maintain 100% uptime of the equipments in core pathology. The increase in warranty period will be equivalent to downtime of the machine, however if a single machine is down, warranty of the entire chain of machines for the core pathology sequence (processor, embedding station, microtome and autostainer) will be increased.	Please reduce the uptime from 100% to 95% as per the AIIMS standard procurement manual and GFR.	Amended as The vendor will keep adequate facilities to maintain 95% uptime of the equipments in core pathology. The increase in warranty period will be equivalent to downtime of the machine, however if a single machine is down, warranty of the entire chain of machines for the core pathology sequence (processor, embedding station, microtome and autostainer) will be increased.
6	Section VIII: Qualification Criterion	Minimum Work of Similar Nature: The Manufacturer and/or Bidder should have supplied and installed the tendered quantity of the below mentioned items in last five years from the date of Bid Opening, successfully supplied and executed order(s)** to hospital(s) like any Govt. hospitals/institutes of national importance or at any other reputed hospitals/institutes globally as detailed below.	Requested to add following equipments: - RT-PCR - Spectrophotometer - Flowcytometer with their accessories	Changes not considered
7			4. Annexure-1: Please provide list of equipment for which MAF is required.	Amended as Annexure 1 revised and added
8			Annexure-4 (Pg no. 45): List of items to be freezed for 10 years, order shall be placed through AIIMS, New Delhi as and when required: USD fluctuation at more than 10% should be considered	changes not considered
9	Pg No: 105 (e):	All software/hardware updates should be provided free of cost during CAMC. In case of failure by the supplier, the Bank Guarantee of CAMC will be forfeited.	Please delete this clause as the software updates is beyond the CAMC scope	Changes not considered

Response To Pre-Bid Queries (Pre-Bid date: 10.04.2023)				
NIB Ref: HITES/PCD/NCI-AIIMS/53/22-23				
Commercial Queries				
Sr. No.	**Tender Specification Page & Para**	**TENDER SPECIFICATION**	**REPRESENTATION RECEIVED FROM THE FIRM**	**Reply to Pre-bid Queries**
10	Pg No: 106 (5):	Uptime & Downtime Penalty Clause: a) The firm should provide uptime guarantee of 95% during warranty period and CAMC period. b) During the Warranty period and CAMC period, desired Uptime of 95% of 365/366 (Leap Year) days (24 hrs), if downtime more than 5%, the warranty period/CAMC period will be extended by double the downtime period Complaints should be attended properly, maximum within 8 hrs.	Please calculate the uptime clause on the basis of business working days i.e. The machine shall remain in working condition/fully functional for 247 days (being 95% of 261 days) during the year.	Changes not considered
11			Hence hereby we request you to please exclude the following equipments from MAF requirement. Item no. 4: Gel Documentation System Item no. 8: Westernblot with Power Pack with vertical system Item no.9: Gel Electrophoresis Apparatus (Horizontal) with power pack Item no.12: Fragment Analyzer Item no.17: Cell Counter	Amended MAF authorization not required for Westernblot, Gel electrophoresis, Fragment analyser and cell counter Gel documentation Authorization required