



Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited
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Supply and Commissioning of different types of Medical Equipment at Medical College and Hospital of the Govt. of West Bengal

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-215/2018

Dated-12.10.2018

Amendment-II

REVISED TECHNICAL SPECIFICATION

PCR MACHINE

1. THERMAL CYCLER FOR PCR OPEN SYSTEM	
PERFORMANCE / FEATURE	THRESHOLD LIMIT/ RANGE
TEMPERATURE RANGE (°C)	(0 -90) OR MORE
NUMBER OF THERMAL WELLS	32 OR MORE
SELECTABLE HEATING LID TEMPERATURE (°C)	100 OR MORE
REACTION VOLUME(μ L)	(10-30) OR MORE
TEMPERATURE ACCURACY (°C)	WITHIN \pm 0.25
TEMPERATURE UNIFORMITY BETWEEN SAMPLES (°C)	WITHIN \pm 0.5
COMPATIBILITY WITH AMBIENT TEMPERATURE IN °C	(10 to 35) OR MORE
MUST HAVE SPECIFICATIONS	
PERFORMANCE / FEATURE	YES / NO
CONSUMABLES ARE NOT COMPANY OR BRAND SPECIFIC	
AUTOMATIC PROGRAMABLE RUN	
LOW - HIGH THROUGHPUT CAPABILITIES FOR	

ALL PCR AMPLIFICATION NEEDS	
GRADIENT SYSTEM / VERIFLEX	
END PROGRAMME COOLING BELOW AMBIENT TEMPERATURE	
AUTO RESTART FACILITY	
2 or more STEP PROGRAMME TEMPLATES	
DISPLAY WITH GRAPHICAL REPRESENTATION	
PROGRAMME NAMING	
PASSWORD PROTECTION	
PROGRAMME STORAGE CAPACITY	
PAUSE BUTTON	
STOP BUTTON	
ACCOMMODATE 2 OR MORE BLOCKS AT A TIME	
END PROGRAMME ALARM	
2. MOLECULAR IMAGER GEL DOC	
PARAMETER / FEATURE	THRESHOLD LIMIT/RANGE
OPERATING TEMPERATURE (° C)	(10 to 35) OR MORE
MUST HAVE FEATURES	
PARAMETER / FEATURE	YES /NO
EXCITATION SOURCE - TRANS UV AND TRANS WHITE	
UV / BLUE CONVERSION SCREEN	
ILLUMINATION CONTROL – 2 OR MORE SOURCE TRANS UV, TRANS WHITE, EPI- WHITE (IN CASE MORE THAN 2 IS SUPPLIED)	
COMPATIBILITY WITH FOLLOWING DYES - QDOTR, SYBR SAFER, ETHIDIUM BROMIDE	
COMPATIBLE WITH BOTH PRE CAST GEL AND POUR IT YOURSELF GEL (AGAROSE OR POLYACRAMIDE)	
COMPATIBLE WITH DENSITOMETRY	
SHOULD PERFORM REAL TIME SAMPLE IMAGING	
IMAGE LAB SOFTWARE INTERFACED WITH TABLE TOP COMPUTER/ LAPTOP	
3. HORIZONTAL ELECTROPHORESIS MACHINE FOR PCR	
PERFORMANCE / FEATURE	THRESHOLD LIMIT/RANGE
GEL SIZE (CM)	10 X 8
SPACERS THICKNESS in MM,	0.75 to 1.0 OR MORE
RIDGED COMBS (WELLS)	10 to 15 OR MORE
NUMBER OF WELLS CAN BE RUN SIMULTANEOUSLY	8 OR MORE

POWER PACK VOLTAGE	5 - 200 OR MORE
POWER PACK VOLTAGE INCREMENT STEP	1
POWER PACK POWER IN WATT	200 OR MORE
OUTPUT TERMINAL (in Number)	2 OR MORE
MUST HAVE SPECIFICATIONS	
PERFORMANCE / FEATURE	YES / NO
CONSTANT VOLTAGE AND CURRENT IN POWER PACK	
SPACERS WITH GLASS PLATE	
CAPABLE OF DNA ELECTROPHORESIS	
BUFFER TANK WITH PLATINUM ELECTRODES	
SAFETY FEATURES: LOAD DETECTION, GROUND LEAK DETECTION, SUDDEN LOAD CHANGE DETECTION, OVERLOAD / SHORT CIRCUITS DETECTION, AUTO POWER UP AFTER POWER	
UV TRANSPARENT GELL TRAYS, COMBS	
ONLINE UPS OF APPROPRIATE CAPACITY FOR THERMAL CYCLER FOR PCR OPEN SYSTEM, MOLECULAR IMAGER GEL DOC AND HORIZONTAL ELECTROPHORESIS MACHINE FOR PCR	
QUALITY STANDARD AND SAFETY CERTIFICATION FOR ALL 3 UNITS	
EUROPEAN CE OR US FDA	