INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
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Technical Specification of Biosample Analyzer

(BIOSAMPLE ANALYZER (Automated electrophoresis system for quality control of DNA, RNA samples for NGS QC work flow))

as per below mentioned configuration and specifications:

1) Should be Unique system for the analysis of genomic DNA and other nucleic acid samples by proprietary small-scale gel electrophoresis.
2) Should process 1 to 16 samples per Run.
3) Sample loading from two 8 tube strips.
4) Should require Requires only 1 to 2 µL of samples per run—even for high sensitivity analysis.
5) System should come with software including electronic user information.
6) System should come with Accessories like (Vortex Mixer, Tube Strip Holder, Tip Waste Bucket, USB cable, etc.)
7) System should come with Start-up kits for standardisations.
8) System should be capable of doing rapid analysis results should be available within 1 to 2 min per sample with reliable reproducible results within 20 min for 16 samples.
9) System should offer unattended walk away operation with fully automated sample processing for up to 16 samples.
10) System should have screen tape tool for hardware diagnosis of all the tape station instruments.
11) System should offer full range of below applications for all the steps in any NGS work flow,
12) Integrity standards for RNA (RNA Integrity Number equivalent, RINe) and genomic DNA (DNA Integrity Number, DIN)
13) QC of cell-free DNA with qualification based of the calculation of %cfDNA.
14) QC of fragmented genomic DNA e.g. DNA extracted from FFPE tissue.
15) QC of adapter ligated and amplified NGS libraries.
16) Analysis of post-capture amplified libraries after target enrichment.
17) Computer/Lap top with specifications similar to I5-8350CPU@1.7Ghz/1.90GHz,8GB RAM, Win 10 Pro 64 bit needs to be provided Locally from India.
18) Warranty**: 3 year-on site- for entire equipment and accessories**.