

Online Proposals for Quantitative viral load Estimation Platform for HBV-DNA and HCV-RNA under Rental Reagent Model for three years are invited at rate per test cost (including Reagents and Plasticwares) in the Department of Microbiology, King George's Medical University UP, Lucknow, Mob.No.9451991015, Mail ID – microbiology@kgmcindia.edu under National Hepatitis Control Programme (NHM). Online proposal has to be submitted within 10 days. Last date of submission is 14th August, 2020. Offline Hard Copies of proposal to be sent within 14 days, i.e. on 18th Aug., 2020.

DESCRIPTION AND SPECIFICATION

Schedule –I

Technical Specifications of QUANTITATIVE VIRAL LOAD TESTING PLATFORM FOR HBV AND HCV

- 1: Closed HCV and HBV nucleic acid extraction and Viral Load Testing Platform using human whole blood derived serum/plasma
- 2: Technology Platform should be based on real time PCR chemistry like TaqMan, molecular beacon probes, SYBR Green and all other fluorescent dye based chemistries and should be calibrated for multiple dyes.
- 3: The Assay should be FDA-approved and CE-IVD marked. The quoted test shall be licensed to bidder in India by DCG(I).
- 4: The limit of detection must be -
HCV RNA: 15 IU/ml or lower for 0.65 ml input
HBV DNA : 20 IU/ml or Lower for 0.65 ml input
- 5: Dynamic range of the quoted assay shall be
HCV: 15 – 1 X 10⁸ IU/mL or better
HBV: 20 – 1.7 x 10⁸ IU/ml or better
- 6: Specificity of the assay shall be 100%
- 7: Genotype coverage: Assay shall cover HCV genotypes 1 to 6 & HBV genotype A to H plus Pre-Core Mutants.
- 8: The assay shall have inclusion of reagents/enzymes (either built in or external addition) to remove the carry over contamination by degrading of Nucleic Acid templates amplified in previous runs.
- 9: Capable of completing a cycle of extraction and testing within 8 hrs.
- 10: Automated sample extraction and the testing should have a throughput of up to 96 Specimens in batches of 24 to 96.
- 11: The platform shall have barcode system for specimen tube identification
12. Tender is for 3 years period, with an option for upgradation of instrument on Reagent Rental Basis.

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Microbiology, 4/8/2020
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