



Government of Assam

OFFICE OF THE PRINCIPAL CUM CHIEF SUPERINTENDENT
GAUHATI MEDICAL COLLEGE, GUWAHATI-781032, ASSAM, INDIA

No.MC/268/2013/Pt / 795

Date: 09/08/2021

Notice Inviting Tender


Scaled tender affixing court fee stamp of Rs. 8.25 (Rupees eight and twenty five paisa) only in the two system are invited from intending supplier /Manufacture/accredited authorized dealer for supply of consumables (Kits/ chemicals/plasticweres) for state level VRDL, Department of Microbiology, Gauhati Medical College under annual rate contract basis. Bid should be submitted with the tender Fee (Non refundable) and EMD in favour of The Principal cum chief superintendent and Secretary, GMCH.

Important dates of the tender					
Sl. No	Scheduled	Start Date	Start time	End Date	End time
1	Pre-Bid Meeting	17/8/2021	2.00 PM	-	-
2	Tender will be received by under signed			31/8/2021	02.00 PM
3	Technical Bid opening	02/09/2021	11.00 AM	-	-
4	Verification of quality of the consumables by sample testing wherever applicable.	05/09/2021 06/09/2021	11.00 AM	-	-

Note: If the date of pre-bid meeting/opening of bids is declared a public holiday, the tender shall be opened on the next working day at the same venue and time.

Brief schedule					
Sl. No	Particulars	Court Fee	Tender fees amount in Rs	Bid security (EMD) amount in Rs.	Delivery period
01	Supply of consumables (Kits/Chemicals/ Plasticweres)	8.25 (Rupees eight and twenty five paisa only)	2000.00 (two thousand only)	20,000.00 (twenty thousand only)	15 days (From the date of supply order issued)

All other relevant information and the details Bid document are available on website <http://gmchassam.gov.in> and can be viewed from 11/08/2021. Bidder may also download the details from the dedicated website and submit the hard copy to State Level VRDL, Department of Microbiology, Gauhati Medical College, Fifth floor, Narakasur Hilltop.

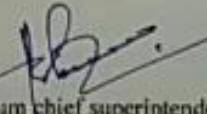

Principal cum chief superintendent
Gauhati Medical College
Guwahati-32

Date:
Principal cum-chief Superintendent
Gauhati Medical College & Hospital
Guwahati-32.

Memo No:

Copy forward for information to:

1. The Superintendent, GMCH, Guwahati-32
2. The Finance and account Officer, GMCH, Guwahati-32
3. The Director of information and public Relation, Govt. of Assam with the request to publish the Notice inviting tender in local news paper (The Assam Tribune)
4. Notice Board, GMCH
5. College website. GMC
6. Office file


Principal cum chief superintendent
Gauhati Medical College
Guwahati-32

Principal cum-chief Superintendent
Gauhati Medical College & Hospital
Guwahati-32.



Government of Assam
OFFICE OF THE PRINCIPAL CUM CHIEF SUPERINTENDENT
GAUHATI MEDICAL COLLEGE, GUWAHATI-781032, ASSAM, INDIA

Annexure-I format for technical bid:


Sl. No	Name of items	Make	Pack size	Technical specification (if any)

Annexure-II document required for technical bid

Sl. No	Name of the firm	Document required	Submitted or not	Remarks (if any)
1.	-----	<ol style="list-style-type: none"> Valid trade license of local municipal body/GMC Valid GST registration. Valid Drug license/ Manufacturing license. Copy of ITR for last 03 years Performance certificate (Previously supplied in Govt. Institution) including copies of supply order. Manufacture authorization letter. Copy of GRN/TIN issued by taxation authorities in the name of bidder. Court fees of Rs. 8.25 EMD amounting of Rs. 20,000.00 Product catalogue latest printed company price list and technical specification of quoted items ISO 13485 certificate (whatever applicable to be decided by technical committee) Separated envelope for both technical and price bid, etc. 		

Annexure III format for price bid:

Sl. No	Name of items	Make/ Model	Pack size	Basic Rate (Excluding of GST)	Rate of GST (%) as applicable	Amount (inclusive of GST)	Any special discount for the Institute	Net amount in INR


 Principal cum chief superintendent
 Gauhati Medical College
 Guwahati-32
 Principal cum-chief Superintendent
 Gauhati Medical College & Hospital
 Guwahati-32.



Government of Assam
OFFICE OF THE PRINCIPAL CUM CHIEF SUPERINTENDENT
GAUHATI MEDICAL COLLEGE, GUWAHATI-781032, ASSAM, INDIA

Terms & condition:

1. The envelope containing the tender and all subsequent communication shall be address and delivered to
The Nodal Officer
State Level VRDL, Department of Microbiology,
Gauhati Medical College, Guwahati -32
All communication shall be addressed to the Office named above by titled only and not by name.
2. Copy of Registration certificate under Municipality bodies or other competent authority a copy of GST number along with latest income tax & sales tax clearance certificate should be attached with technical bid and valid drug license.
3. Conditional & telegraphic tenders shall not be accepted.
4. A notarized undertaking to the effect that the company/ firms/ distributor are not blacklisted should be attached with the tender.
5. The rates should be quoted exclusive of GST mentioning the rate of GST. All tenders/ quotation will be deemed to be for F.O.R (Free on road) destination at Guwahati Medical College hospital, Guwahati including packing, forwarding the insurance charges and not be ex-work, ex-godown, ex-miles etc.
6. A person signing the tender form or any other document forming the part of contract on behalf of another shall be deemed to warranty that he has the authority to bind such order in a constitution of law and if on the enquiry it appears that the person so signing has no authority to do so, the purchase may without prejudice to other civil and criminal remedies against the contract, hold the signatory liable for all costs and damages and forfeit money.
7. The tender must be submitted in two parts (i) Technical bid (ii) Financial bid separately. All documents required as per terms and conditions should be enclosed with technical bid only. Tender not received in specified manner will be rejected.
8. Technical and financial bids are to be submitted separately in two sealed envelopes clearly indicating the technical bids and financial bids on the envelopes. **Both the envelopes should be put in a common sealed envelope clearly superscribing the NIT no, date and names of the supplier on the body of the envelope.**
9. The inner label as well as label on the catch cover/ carton shall bear conspicuously to wards, "Hospital supply, Not for sale" and bolder that those already printed on the label. The above caption shall run from the lower left corner to the top right hand corner. The lab/ cap/ bottle etc. Should have mark of "Hospital supply, not for sale".
10. Bid Guarantee and security
 - (a) The tender must be accompanied with refundable money of Rs. 20,000/- (Rupees twenty thousand only) in a lump sum amount in the form of Demand draft/ banker's cheque/ Fixed deposit receipt in favour of **The Principal cum chief superintendent and Secretary, GMCH**, payable at Guwahati. Earnest money in the other form will not be accepted. Bids not accompanied by earnest money as started above or less than the amount stipulated above shall be summarily rejected.
 - (b) Earnest money/security deposit any other sums of the tenders lying with the Gauhati Medical College hospital, Guwahati in connection with any other tender/ case will not be considered against this tender.
 - (c) The successful bidder shall be required to furnish performance security of Rs. 20,000/- by the firm in the form of fixed deposit receipt duly hypothecated in favour of **The Principal cum chief superintendent and Secretary, GMCH**, Guwahati. The performance security will be forfeited on the violation of tender norms and failure to supply in time by bidder.
 - (d) Earnest money deposit by unsuccessful bidders will be refunded after completion of tender process. EMD submitted by successful bidder will be converted as performance security automatically.
 - (e) In case of successful bidder is found in breach of any condition/ tender at any stage, legal action as per rules/ laws shall be initiated against the agency concerned. In that case EMD/ performance security shall be forfeited after giving proper opportunity through show cause notice.
11. The work/ supply order will be placed as and when requirement arises from the concern department and payment will be made subject to availability of fund after observing all necessary formalities. Any claim for the advance payment will not be entertained. No interest will be allowed for late payment.
12. The maximum delivery period from the date of placing the order should be specified. There after this institute will be forced to charge 5% of the cost of items for each 10 days or part of it as penalty till receipt of the materials.
13. All quotation/ tender should be deemed valid for least of one year from the date of completion of comparative statement of the tender. However, the same can be extended for another period of 01 (one) year or till the finalized of new tender whichever is earlier subject to sole discretion of authority of GMCH.
14. Any request for increase in the approved basis rate (excluding tax) will not be entertained for any reasons for the contract period for any reason and the items required to be supplied by contractor should strictly be in accordance with the sample approved.



Government of Assam
OFFICE OF THE PRINCIPAL CUM CHIEF SUPERINTENDENT
GAUHATI MEDICAL COLLEGE, GUWAHATI-781032, ASSAM, INDIA

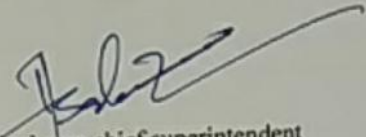
15. The inspection for goods will be carried out by the consignee at destination & rejected goods will have to be removed by you within 10 days of dispatch of advice from the undersigned failing which goods will live at own risk.
16. The rejected goods must be replaced by you within 7 days from the date of notice, intimating that the goods have been rejected. Failing to supply the materials as per approved standard will be considered for cancellation of contract/black listing of the firms for at least 3 years.
17. The supply must be completed satisfactory within the stipulated period, failing which the store purchase Officer / chairman purchase committee reserve the right to purchase or allow the indenting officer to purchase goods at risk provided that where goods were not supplied accordingly to the master pattern & not in accordance of the demand the indenting officer decides to retain the inferior goods.
18. The bidder should enclose latest tender specific original authorization certificate from the original manufacturer or its Indian firm which the technical bid, failing which the tender are liable to be rejected straightway. The bidder must be dealing in system packs for auto analyzed.
19. There should be provision for supplying immediately on emergency basis as and when necessary.
20. (a). **Bidder quoting multiple rates with multiple samples against one items shall be consider as non responsive for all purpose.**
(b) **Samples are to be submitted as and when called for. Single sample with single rate is to be submitted against single items at the time of sample verification. Quotation multiple rates and submitting multiple samples for a single items will summarily be rejected.**
21. The items required to be supplied by contractor should strictly be in accordance with sample approved.
22. The material shall not be consider delivered until it is approved & received by the competent authority as defined from time to time by purchase committee.
23. The bidder shall certify that the rates quoted as the lowest ones for any institution (Govt. of Private) in the state.
24. The rates shall not be finalized after exhibiting/ demonstration of the materials, if required by technical scrutiny committee/ purchase committee.
25. The authority reserved the right to reject any or all the bids or part. The decision of the Hospital authority in this regard shall be final and binding on all
26. If the prices of contracted article is /are controlled by the Govt. the payment will in no case be allowed at higher rate than the quoted.
27. The quantity can be increase or decrease or all together abandoned as per the changed requirement of the department as well as available of the funds.
28. Undersigned reserved the right to reject any or all the tenders without assigning any reasons. GMCH does not pledge itself the right of acceptance of the sole or any part of the tender or portion of the quantity offered and the tender shall be required to supply the same at rate quoted.
29. **Payment schedule:** payment will be made after receipt of the bills containing certificate from the concerned store/ department that the items/ materials has be supplied by the firms is fully up to their satisfaction and according the specification and subjected to availability of fund.
30. TDS and other applicable taxes as prevailing rates will be deducted at the time of making the payment.
31. No advance payment will be made any case.
32. **Details specification** of the items should be provided with the price. All the items etc. **should be ISO 13485, CE and CLIS us FDA certificate & required WHO certificate whatever applicable should be enclosed.**
33. Supply is made from the latest batch of production with the maximum shelf life period & original packing having minimum expiry period of 6 month or more.
34. No revision in rate (On higher size) will be accepted during contract period.
35. No payment will be made for unsatisfactory supply.
36. In case a proposal is accepted the firm shall sign an agreement with the authority for rate contract.
37. While submitting the tender document, the tender should specifically sign on each page of tender document.
38. Photocopy of price list and price in spiral binding will not be accepted.
39. Authorization certificate from the Principal is mandatory of the rate contract proposal is submitted by authorized stockiest/ dealers.
40. The bidder should enclose the duly filled format as **Annexure-I & Annexure-II** in technical bids.
41. The bidder should quote the rate as per format as **Annexure-III** in price bid only.
42. The Hospital authority reserve to impose any other condition for regulating the contract in public interest.
43. All disputes are subject to the jurisdiction of courts in Guwahati and agreement will be governed by and be construed in accordance with the laws of India.
44. **Interest firms/ parties will have to submit unconditional acceptance to the above terms and conditions at the time of submission of the bid on the letter head of the firm.**



Government of Assam
OFFICE OF THE PRINCIPAL CUM CHIEF SUPERINTENDENT
GAUHATI MEDICAL COLLEGE, GUWAHATI-781032, ASSAM, INDIA

45. The bidders who does not fulfill any of the above conditions and incomplete tender are liable to be summarily rejected at the risk and cost of bidder only and further correspondence in this regard will not be entertained.

Note: Bidder must go through these conditions very carefully and put his signature in token of acceptance of those terms and condition. It also made clear that no re-presentation shall be considered after opening the financial bids except requiring any information by this office.


Principal cum chief superintendent
Gauhati Medical College
Guwahati-32
Principal cum-chief Superintendent
Gauhati Medical College & Hospital
Guwahati-32.

list of consumables				
Sl. No	Name of items	Make	Size/Pack	Remarks
01	Qiagen One Step RT-PCR Kit	Qiagen	100 rxn	As per WHO recommendation
02	QIAmp Viral RNA Mini Kit	Qiagen	250/50 rxn	
03	QIAmp Viral DNA Mini Kit	Qiagen	250/50 rxn	
04	QIAmp Mini Elute Gel Extraction Kit	Qiagen	50 rxn	
05	PCR Tubes (0.2mL) with Flat Capped	-	1000/pack	
06	PCR Strips(8-tubes) with flat capped (compatible to ABI QuantStudio-5)	-	125/pack	
07	RNase free Microcentrifuge Tubes (1.5mL/2mL) flat capped	-	500/Pack	
08	Tissue Paper Pack	-	-	
09	Screw Capped cry vial (1.5mL/2mL)		(500/Pack)	
10	DNA Ladder (50bp/100bp)	Preferred make: Thermo/Promega/ Qiagen	(500/250 ul)	
11	Gel Red (Nucleic Acid Stain/Gel Stain)	Preferred make: Sigma-Aldrich	1ml	
12	Racked aerosol barrier filter tips (10µL/20µL/100µL/200µL/1000µL)	-	(960 tips/pack)	
13	cDNA Synthesis Kit	Preferred make: Qiagen /Thermo/Invitrogen	100 rxn	
14	PCR Master Mix 2X	Preferred make: Qiagen /Thermo	100 rxn	
15	TAE Buffer-50X	Preferred make: Qiagen/Thermo	500 ml	
16	Nuclease Free Water-; (1 ml/ 50 ml)	Preferred make: Qiagen /Thermo	1ml tube/ 50mL	
17	RNase Inhibitor-2500U,	Preferred make: Thermo/Promega	2500U	
18	DNA Taq Polymerase Enzyme-High Fidelity,	Preferred make: Qiagen/Invitrogen/Promega	500-2500U	
19	Molecular Grade Agarose	Preferred make: Qiagen/Invitrogen/Promega	500 gm	
20	Rectified Spirit,	-	500 ml	
21	Sodium Hypochlorite,	-	500 ml	
22	Ethanol Absolute (MBG)(99.9%)	-	500 ml	
23	Conventional PCR Primers	Preferred make (Integrated DNA Technology/Eurofins)		
24	Real Time PCR Primers and Probes	Preferred make (Integrated DNA Technology/Eurofins)	-	
25	HiDi Formamide (25ml) (4311320)	-	-	
26	BDT3.1 cycle Sequencing kit (4337455)	-	100 reactions	
27	Cathode Buffer (4408256) (Compatible ABI 3500 Genetic Analyzer)	-	-	

List of consumables				
Sl. No	Name of Items	Make	Size/Pack	Remarks
28	Anode Buffer (4393927) (Comptable ABI 3500 Genetic Analyzer)	-	-	
29	POP7 (4393708) (Comptable ABI 3500 Genetic Analyzer)	-	-	
30	Conditioning reagents (4393718) (Comptable ABI 3500 Genetic Analyzer)			
31	BigDye X Terminator Purification Kit (4376486)	-	-	
32	Full Sleeve Apron (Autoclavable and Reusable in three different colours: White/Blue/Green etc.)	-	-	
33	PPE Kit	-	100 nos/ Pack	
34	N-95 Masks	-	20 nos/ Pack	
35	Nitrile Gloves (Sizes: Small; Medium; Large)	-	100 pcs/Pack	
36	Real Time PCR Detection Kit for Hepatitis A Virus	-	100 rxn	
37	Real Time PCR Detection Kit for Hepatitis E Virus	-	100 rxn	
38	10X TE Buffer	-	500 ml	
39	2X RT-PCR Master Mix with Loading Dye	-	100 rxn	
40	6X Gel Loading Dye	-	1 ml	
41	2X qPCR Master Mix	-	100 rxn	
42	2X qRT-PCR Master Mix	-	100 rxn	
43	Lysostaphin	-	1 ml	
44	Lysozyme	-	1 gm	
45	Triton-X-100	-	100 ml	
46	1 kb DNA Ladder		1ml	
47	Plasmid Extraction Kit	-	50 rxn	
48	Gram Positive Bacteria Nucleic Acid Extraction Kit	-	50 rxn	
49	Fungal Nucleic Acid and Protein extraction Kit (50 rxn)	-	50 rxn	
50	Invitro Transcription Kit (50 rxn)	-	50 rxn	
51	Concentrated HCl	-	500 ml	
52	NaOH pellets	-	100/500 gm	
53	Tetrasodium/Disodium EDTA MB Grade	-	100 gm	
54	Tris Base	-	500 gm	
55	TRIzol Reagent	-	100 ml	
56	Sample concentrator	-	-	
57	Cryoboxes		100 wells	
58	Cryogenic storage rack, stainless steel horizontal	-	96 wells	
59	Cryogenic storage rack, stainless steel vertical	-	-	
60	PCR tube cooling rack (96 wells)	-	96 wells	
61	Spray bottles-	-	250mL	
62	Parafilm 2inch/ 4 inch	-	-	
63	Cryotags/Tough tags	-	-	
64	Screw capped glass bottles- 50mL, 100mL, 500mL, 1000mL	-	-	
65	Glove Holder	-	-	
66	Kimwipe (Tissue pack)		10/pack	

Sl. No	List of consumables			
	Name of items	Make	Size/Pack	Remarks
67	Syber Green 2X PCR Master Mix	Preferred make: Qiagen/Thermo/Promega	2x5ml/kit	
68	Autoclaveable bag(sizes: small, medium and large)	-	200/ pack	
69	Micro Tips (10 Ul) (Non filter)	-	1000 tips/ pack	
70	Micro Tips (100 Ul) (Non filter)	-	1000 tips/pack	
71	Micro Tips (200 Ul) (Non filter)	-	1000 tips/pack	
72	Micro Tips (1000 Ul) (Non filter)	-	1000 tips/pack	
73	Real time PCR kits for Zika virus	-		
74	Centrifuge tube 15 ml	-		
75	Centrifuge 50 ml	-		
76	0.2 ml PCR tube rack	-		
77	PCR strips 8 tubes with flat capped (compatible to BioRad Machine)	-	125/Pck	

78	Whole genome sequencing (technical specification: 1. Sample type: Total RNA (ng) of SARS-COV-2 2. WGS platform: Viral genome amplification. 3. RNA extraction: Kit based 4. Amplification: whole viral Genome sequence differential gene expression studies. Base by base view of the genome. Identification potential causative variants for further studies of gene expression and regulation mechanisms of SARS-COV-2. Delivers large volumes of data in a short amount of time to support assembly of novel genomes 5. Sequencing (Library preparation & sequencing on Illumina platform with 2x150 or 2x250 bp module. 200 x coverage. 20-25 million reads. 6. Data required (whole genome sequencing 2-3 GB 7. Data analysis: Required Alignment to the reference genome, Consensus genome fasta. Phylogenetic report, variant analysis & reporting with annotation.)	-	-	-
79	Target gene sequencing of viral/bacterial RNA/ DNA	-	-	-
80	96 well Real Time PCR plates compatible for Quant Studio 5/BioRad CFX 96/ ABI 7500	-	-	-
81	96 well Real Time PCR plate sealer compatible for Quant Studio 5/BioRad CFX 96/ ABI 7500	-	-	-
82	96 well Real Time PCR plate for LC 480	-	-	-
83	96 well Real Time PCR plate sealer for LC 480	-	-	-
84	ELISA kit for Virus & Bacteria Name and specification enclosed in Annexure-I	-	-	-
85	RT- PCR kits for virus & Bacteria Name and specification enclosed in Annexure-II			

List of consumables				
Sl. No	Name of items	Make	Size/Pack	Remarks
86	Mag Max Viral/ pathogen kit			
87	KF 96 tip comb for DW Magnets 10X 10 pcs			
88	KF 96 KF Plate (200 ul) -48/CS, case of 48			
89	Deep well 96 plate- 50 pcs, each			
90	MICROAMP clear adhesive film, 100 pc			
91	Mag RNA-II viral RNA Extraction kit			
92	250 ul automated Filter tips			
93	1.3 ml U bottom deep well plate		2 plate/ bag	
94	0.2 ml PCR 8- strips with flat cap		125 strips/ box	

Annexure 1
Specifications for ELISA kits

Sl no	Virus/Bacteria	Specimen	Assay	Specifications
1	Hepatitis A virus#	Serum	IgM ELISA Qualitative 96 test	<ul style="list-style-type: none"> • Solid phase ELISA • Preferred make (in order of preference): 1. Hepavase 2. Axyme 3. Immunovision USA 4. DRG International USA 5. Immunoshop or any other company/firm • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: WHO GMP /ISO/FDA certification or NIV/CDC recommendation.
2	Hepatitis E virus#	Serum	IgM ELISA Qualitative 96 test	<ul style="list-style-type: none"> • Solid phase ELISA • Preferred make (in order of preference) :1. MP Diagnostic 2. MB SSRL Milano ItalyOR any other company/firm • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: WHO GMP /ISO/FDA certification or NIV/CDC recommendation.
3	Hepatitis B virus#	Serum	HBsAg ELISA Qualitative 96 test	<ul style="list-style-type: none"> • Solid phase ELISA • Preferred make (in order of preference): 1. Axyme 2. Abbot 3. J.MitraCo.Pvt.Ltd (WHO) 4. Bio-Rad USAOR any other company/firm • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Analytical Sensitivity 0.1ng/ml • Certification:WHO GMP /ISO/FDA/ certification or NIV/CDC recommendation.
4	Japanese Encephalitis virus#	CSF and Serum	IgM ELISA Qualitative 96 test	<ul style="list-style-type: none"> • Solid phase ELISA • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: Certification of WHO GMP /ISO/FDA or NIV/CDC Recommendation.
5	West Nile virus#	CSF & Serum	IgM ELISA Qualitative 96 test	<ul style="list-style-type: none"> • Solid phase ELISA • Preferred make (in order of preference): 1. Focus diagnostics 2. Pan Bio 3. In BiosOR any other company/firm • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: WHO GMP /ISO/FDA/ certification or NIV/ CDC recommendation
6	Dengue virus#	Serum	NS1 Antigen ELISA Qualitative 96 test	<ul style="list-style-type: none"> • Solid phase ELISA • Preferred make(in order of preference): 1. PLATELIA (BioRad) 2. Standard Diagnostics 3. Pan BioOR any other company/firm • No cross reactivity with other viruses. Detects all 4 Dengue serotypes (DEN1 -DEN4). • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: WHO GMP /ISO/FDA certification or NIV/CDC recommendation.
7	Dengue virus#	Serum	IgM ELISA Qualitative 96 test	<ul style="list-style-type: none"> • Solid phase ELISA • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ AGAINST ALL 4 SEROTYPES • Certification: WHO GMP /ISO/FDA certification or NIV/CDC Recommendation.
8	Chikungunya virus#	Serum	IgM ELISA Qualitative	<ul style="list-style-type: none"> • Solid phase ELISA • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: WHO GMP /ISO/FDA

9	Measles virus#	Serum	96 test IgM ELISA Qualitative 96 test	certification or NIV/CDC Recommendation. <ul style="list-style-type: none"> • Solid phase ELISA • Preferred make(in order of preference): 1. Enzygnost 2. Euroimmune, or any other company/firm • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: WHO GMP /ISO/FDA certification or NIV/CDC Recommendation.
10	Rubella#	Serum	IgM ELISA Qualitative 96 test	<ul style="list-style-type: none"> • Solid phase ELISA • Preferred make(in order of preference): 1. Enzygnost 2. Euroimmun OR any other company/firm • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: WHO GMP/ISO/FDA certification or NIV/CDC Recommendation
11	Mumps#	Serum/CSF	IgM ELISA Qualitative 96 test	<ul style="list-style-type: none"> • Solid phase ELISA • Preferred make(in order of preference): 1. Demeditec (OSB) 2. Novalisa 3. Novatech OR any other company/firm • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: WHO GMP /ISO/FDA certification or NIV/CDC Recommendation
12	Parvo B-19 virus#	Serum	IgM ELISA Qualitative 96 test	<ul style="list-style-type: none"> • Solid phase ELISA • Preferred make(in order of preference): 1. Serion 2. Verion, 3. NovatechOR any other company/firm • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: WHO GMP /ISO/FDA certification or NIV/CDC Recommendation
13	Varicella zoster virus#	Serum	IgM ELISA Qualitative	<ul style="list-style-type: none"> • Solid phase ELISA • Preferred make(in order of preference): 1. Enzygnost 2. Demeditec 3. Novatech any other company/firm • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: WHO GMP /ISO/FDA certification or NIV/CDC Recommendation.
14	Cytomegalovirus#	Serum	IgM ELISA Qualitative	<ul style="list-style-type: none"> • Solid phase ELISA • Preferred make(in order of preference): 1. PLATELIA (BioRad) 2. EUROIMMUNE 3. Serion 4. Verion 5. Calbiotech USAOR any other company/firm • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: WHO GMP /ISO/FDA certification or NIV/CDC Recommendation
15	Rota virus#	Stool	Antigen ELISA	<ul style="list-style-type: none"> • Solid phase ELISA • Preferred make(in order of preference): 1. Rota clone Italy 2. R.BiopharmaOR any other company/firm • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: WHO GMP /ISO/FDA certification or NIV/CDC Recommendation
16	Adeno virus#	Stool	Antigen ELISA	<ul style="list-style-type: none"> • Solid phase ELISA • Preferred Make (in order of preference): 1. R.Biopharma 2. NovaTec 3. Immundiagnostica OR any other company/firm • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$

				<ul style="list-style-type: none"> • Certification: WHO GMP /ISO/FDA certification or NIV/CDC Recommendation.
17	Astro virus*#	Stool	Antigen ELISA	<ul style="list-style-type: none"> • Solid phase ELISA • Preferred make (in order of preference): 1. R.Biopharma OR any other company/firm • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: WHO GMP /ISO/FDA certification or NIV/CDC Recommendation.
18	Noro virus#	Stool	Antigen ELISA	<ul style="list-style-type: none"> • Solid phase ELISA • Preferred make (in order of preference) :1. R.Biopharma OR any other company/firm • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: WHO GMP /ISO/FDA certification or NIV/CDC Recommendation.
19	Hepatitis C virus#	Serum	Total antibody ELISA	<ul style="list-style-type: none"> • Solid phase ELISA • Preferred make (in order of preference): 1. Orthodiagnostics 2. J.Mitra Co.Pvt.Ltd 3. BioRad USAOR any other company/firm. • Should detect of all HCV genotypes including the genotypes 1,1A & B prevalent in India. • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: WHO GMP /ISO/FDA certification or NIV/CDC Recommendation
20	Hepatitis D virus#	Serum	Total antibody ELISA	<ul style="list-style-type: none"> • Solid phase ELISA • Preferred make (in order of preference): 1. General Biological Corporation, Taiwan 2. DSI, SRI ItalyOR any other company/firm • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: WHO GMP /ISO/FDA certification or NIV/CDC Recommendation
21	Epstein-Barr virus#	Serum	IgM ELISA Qualitative	<ul style="list-style-type: none"> • Solid phase ELISA • Preferred make (in order of preference): 1. Avitex 2. Alexon 3. Demeditec 4. In Bios OR other company/firm • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: WHO GMP /ISO/FDA certification or NIV/CDC Recommendation.
22	HSV (I & II) virus#	Serum	IgM ELISA Qualitative	<ul style="list-style-type: none"> • Solid phase ELISA • Preferred make (in order of preference): 1. CalbiotechOR any other company/firm • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: WHO GMP /ISO/FDA certification or NIV/CDC Recommendation.
23	Scrub typhus#	Serum/CSF	IgM ELISA Qualitative	<ul style="list-style-type: none"> • Solid phase ELISA • Preferred make (in order of preference): In Bios OR any other company/firm • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: WHO GMP /ISO/FDA certification or NIV/CDC Recommendation.
24	Leptospira#	Serum/CSF	IgM ELISA	<ul style="list-style-type: none"> • Solid phase ELISA • Preferred make (in order of preference): 1. Pan Bio OR any other company/firm • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: IVD/FDA/CE/WHO approved or NIV/CDC Recommendation.
25	Rota virus & Adeno virus*#	Stool	Rapid antigen detection	<ul style="list-style-type: none"> • Rapid card test • Should detect all sero groups

			kit	<ul style="list-style-type: none"> • Certification: IVD/FDA/CE/WHO approved • The kit should have minimum 60% of shelf life or 12 months (whichever is more) at the place of discharge of consignees. • High sensitivity (100 %), High specificity (98-100 %)
26	Leptospira*#	Human serum/plasma/whole blood	Rapid antigen detection kit	<ul style="list-style-type: none"> • Rapid diagnostic test for Ig M antibodies to Leptospirosis interroganssp • Latex agglutination/ Immunochromatographic strip/dot based • The kits must be of very high sensitivity > 95%, specificity not less than 95%
27	Brucella#	Serum	IgM ELISA	<ul style="list-style-type: none"> • Solid phase ELISA • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: IVD/FDA/CE/WHO approved or NIV/CDC recommendation.
28	KFD	Serum	IgM capture ELISA kit	<ul style="list-style-type: none"> • Solid phase ELISA • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: IVD/FDA/CE/WHO approved or NIV/CDC recommendation.
29	ZIKA	Serum/CSF	IgM capture ELISA kit	<ul style="list-style-type: none"> • Solid phase ELISA • Sensitivity $\geq 99\%$ and specificity $\geq 98\%$ • Certification: IVD/FDA/CE/WHO approved or NIV/CDC Recommendation.

* "Kit demo" against reactive/positive serum samples (as deemed fit by end user), in front of an expert committee, is mandatory and essential part of technical evaluation. Decision of technical expert committee will be final – no show at demo invitation implies automatic disqualification

"Preferred kits" are selected on the basis of end-users experience and NIV/CDC recommendation or WHO GMP /ISO/FDA certification. However, kits of other make can be considered, and can be called for kit demo/validation in consultation with end-users. Decision of technical expert committee will be final.

Annexure: II

Sl no	Virus/Bacteria	Specimen	Assay	Specifications
01	Hepatitis B Virus	Serum/ Plasma	Quantitative Real Time PCR Kit	<ul style="list-style-type: none"> • Ready to use kit including Internal control and Positive control • Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. • Sensitivity and specificity of $\geq 99\%$ will be preferred. • Analytical sensitivity (Limit of Detection) $\geq 95\%$. • CE-IVD approved/NIV-ICMR or WHO recommended
02	Hepatitis C Virus	Serum/ Plasma	Quantitative Real Time PCR Kit	<ul style="list-style-type: none"> • Ready to use kit including Internal control and Positive control • Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. • Sensitivity and specificity of $\geq 99\%$ will be preferred. • Analytical sensitivity (Limit of Detection) $\geq 95\%$. • CE-IVD approved/NIV-ICMR or WHO recommended
03	Influenza panel Real Time PCR Kit [Influenza A, Influenza A(pandemic H1N1), Influenza A(H3N2), Influenza B(with subtypes Yamagata & Victoria)]	Throat swab/Nesopharyngeal swab	Qualitative Real Time PCR	<ul style="list-style-type: none"> • Ready to use kit including Internal control and Positive control • Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. • Sensitivity and specificity of $\geq 99\%$ will be preferred. • Analytical sensitivity (Limit of Detection) $\geq 95\%$. • CE-IVD approved/NIV-ICMR or WHO recommended
04	Influenza panel Real Time PCR Kit with Respiratory Syncytial virus [Influenza A, Influenza A(pandemic H1N1), Influenza A(H3N2), Influenza B, Respiratory Syncytial virus (A & B)]	Throat swab/Nesopharyngeal swab	Qualitative Real Time PCR	<ul style="list-style-type: none"> • Ready to use kit including Internal control and Positive control • Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. • Sensitivity and specificity of $\geq 99\%$ will be preferred. • Analytical sensitivity (Limit of Detection) $\geq 95\%$. • CE-IVD approved/NIV-ICMR or WHO recommended
04	HSV Virus 1&2 Real Time PCR Kit	Serum/ CSF	Qualitative Real Time PCR	<ul style="list-style-type: none"> • Ready to use kit including Internal control and Positive control • Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. • Sensitivity and specificity of $\geq 99\%$ will be preferred. • Analytical sensitivity (Limit of Detection) $\geq 95\%$. • CE-IVD approved/NIV-ICMR or WHO recommended

05	Viral Meningitis Panel Real Time PCR Kit (Enterovirus, Epstein-Barr virus, HSV 1 & 2, Human adeno virus, Human parecho virus, Human parvo virus B19, Varicella zoster virus)	Serum/ CSF	Qualitative Real Time PCR	<ul style="list-style-type: none"> • Ready to use kit including Internal control and Positive control • Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. • Sensitivity and specificity of $\geq 99\%$ will be preferred. • Analytical sensitivity (Limit of Detection) $\geq 95\%$. • CE-IVD approved/NIV-ICMR or WHO recommended
06	Viral Gastroenteritis Panel (Rota virus, Adeno virus, Noro virus, Astro virus and Sapovirus) Real Time PCR Kit	Stool	Qualitative Real Time PCR	<ul style="list-style-type: none"> • Ready to use kit including Internal control and Positive control • Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. • Sensitivity and specificity of $\geq 99\%$ will be preferred. • Analytical sensitivity (Limit of Detection) $\geq 95\%$. • CE-IVD approved/NIV-ICMR or WHO recommended
07	Multiplex RT-PCR kit for respiratory pathogen (Virus: Influenza A, Influenza A (H3N2), Influenza B, Inf pandemic (H1N1), parainfluenza (1-4), enterovirus, Human metapneumo virus (A + B), Human respiratory syncytial virus, adeno virus, Human rhino virus, human Boca Virus, Human parecho virus, Human corona virus (alpha and Beta) (Bacteria: Mycoplasma pneumonia, Chlamydia SP, Legionella SP, Streptococcus pneumoniae haemophilus Influenzae A-F)	Throat swab/Nesopharyngeal swab	Qualitative Real Time PCR	<ul style="list-style-type: none"> • Ready to use kit including Internal control and Positive control • Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. • Sensitivity and specificity of $\geq 99\%$ will be preferred. • Analytical sensitivity (Limit of Detection) $\geq 95\%$. • CE-IVD approved/NIV-ICMR or WHO recommended
08	Multiples tropical fever panel (Dengue virus, Chikungunya virus, West Nile virus, Orientia tsutsugamushi, Leptospira species and Zika virus species)	CSF & Serum	Qualitative Real Time PCR	<ul style="list-style-type: none"> • Ready to use kit including Internal control and Positive control • Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. • Sensitivity and specificity of $\geq 99\%$ will be preferred. • Analytical sensitivity (Limit of Detection) $\geq 95\%$. • CE-IVD approved/NIV-ICMR or WHO recommended
09	Hepatitis C Virus detection and genotyping Real Time PCR Kit	Serum/ Plasma	Qualitative Real Time PCR	<ul style="list-style-type: none"> • Ready to use kit including Internal control and Positive control • Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. • Sensitivity and specificity of $\geq 99\%$ will be preferred. • Analytical sensitivity (Limit of Detection) $\geq 95\%$.

				<ul style="list-style-type: none"> • CE-IVD approved/NIV-ICMR or WHO recommended
10	Hepatitis B Virus genotyping Real Time PVR Kit	Serum/ Plasma	Qualitative Real Time PCR	<ul style="list-style-type: none"> • Ready to use kit including Internal control and Positive control • Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. • Sensitivity and specificity of $\geq 99\%$ will be preferred. • Analytical sensitivity (Limit of Detection) $\geq 95\%$. • CE-IVD approved/NIV-ICMR or WHO recommended
11	Chikungunya virus detection Real Time PCR kit	CSF/Serum	Qualitative Real Time PCR	<ul style="list-style-type: none"> • Ready to use kit including Internal control and Positive control • Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. • Sensitivity and specificity of $\geq 99\%$ will be preferred. • Analytical sensitivity (Limit of Detection) $\geq 95\%$. • CE-IVD approved/NIV-ICMR or WHO recommended
12	Dengue virus detection Real Time PCR kit	Serum	Qualitative Real Time PCR	<ul style="list-style-type: none"> • Ready to use kit including Internal control and Positive control • Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. • Sensitivity and specificity of $\geq 99\%$ will be preferred. • Analytical sensitivity (Limit of Detection) $\geq 95\%$. • CE-IVD approved/NIV-ICMR or WHO recommended
13	Dengue virus detection and serotyping Real Time PCR kit	Serum	Qualitative Real Time PCR	<ul style="list-style-type: none"> • Ready to use kit including Internal control and Positive control • Should detect serotypes 1-4 • Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. • Sensitivity and specificity of $\geq 99\%$ will be preferred. • Analytical sensitivity (Limit of Detection) $\geq 95\%$. • CE-IVD approved/NIV-ICMR or WHO recommended
14	Multiple PCR for Dengue, Chikungunya and Zika virus detection Real Time PCR kit	Serum/CSF	Qualitative Real Time PCR	<ul style="list-style-type: none"> • Ready to use kit including Internal control and Positive control • Should detect serotypes 1-4 • Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. • Sensitivity and specificity of $\geq 99\%$ will be preferred. • Analytical sensitivity (Limit of Detection) $\geq 95\%$. • CE-IVD approved/NIV-ICMR or WHO recommended
15	Epstein-Barr virus detection kit	Serum	Qualitative Real Time	<ul style="list-style-type: none"> • Ready to use kit including Internal control and Positive control

			PCR	<ul style="list-style-type: none"> • Should detect serotypes 1-4 • Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. • Sensitivity and specificity of $\geq 99\%$ will be preferred. • Analytical sensitivity (Limit of Detection) $\geq 95\%$. • CE-IVD approved/NIV-ICMR or WHO recommended
16	HIV viral load detection Real Time PCR kit	Serum/Plasma	Qualitative Real Time PCR	<ul style="list-style-type: none"> • Ready to use kit including Internal control and Positive control • Should detect serotypes 1-4 • Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. • Sensitivity and specificity of $\geq 99\%$ will be preferred. • Analytical sensitivity (Limit of Detection) $\geq 95\%$. • CE-IVD approved/NIV-ICMR or WHO recommended
17	HPV detection Real Time PCR kit (For High risk genotypes)	Serum/Plasma/Tissue	Qualitative Real Time PCR	<ul style="list-style-type: none"> • Ready to use kit including Internal control and Positive control • Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. • Sensitivity and specificity of $\geq 99\%$ will be preferred. • Analytical sensitivity (Limit of Detection) $\geq 95\%$. • CE-IVD approved/NIV-ICMR or WHO recommended
18	Leptospira detection Real Time PCR kit	Serum	Qualitative Real Time PCR	<ul style="list-style-type: none"> • Ready to use kit including Internal control and Positive control • Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. • Sensitivity and specificity of $\geq 99\%$ will be preferred. • Analytical sensitivity (Limit of Detection) $\geq 95\%$. • CE-IVD approved/NIV-ICMR or WHO recommended
19	Zika virus detection Real Time PCR kit	CSF/Serum/Plasma	Qualitative Real Time PCR	<ul style="list-style-type: none"> • Ready to use kit including Internal control and Positive control • Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. • Sensitivity and specificity of $\geq 99\%$ will be preferred. • Analytical sensitivity (Limit of Detection) $\geq 95\%$. • CE-IVD approved/NIV-ICMR or WHO recommended
20	CMV viral load detection Real Time PCR kit	Serum	Qualitative Real Time PCR	<ul style="list-style-type: none"> • Ready to use kit including Internal control and Positive control • Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. • Sensitivity and specificity of $\geq 99\%$

				<ul style="list-style-type: none"> will be preferred. Analytical sensitivity (Limit of Detection) $\geq 95\%$. CE-IVD approved/NIV-ICMR or WHO recommended
21	Japanese Encephalitis detection Real Time PCR kit	CSF & Serum	Qualitative Real Time PCR	<ul style="list-style-type: none"> Ready to use kit including Internal control and Positive control Compatible with various Real Time PCR Platforms like ABI 7500, ABI Quant Studio 5, Bio-Rad CFX 96, Roche LC 480 etc. Sensitivity and specificity of $\geq 99\%$ will be preferred. Analytical sensitivity (Limit of Detection) $\geq 95\%$. CE-IVD approved/NIV-ICMR or WHO recommended