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Fully Automated Nucleic Acid Amplification Testing (NAT) facility

(Pre-transfusion molecular screening)

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SI.	Technical Specifications	
No.		
1.	The system must be fully automated system with process control from sample pipetting to	
	interpretation of final results with minimal end-user interface for the whole period of testing	
	procedure	
2	The Principle of the assay shall be based either on RT- PCR (Real Time-PCR) or on TMA (Transcription	
	Mediated amplification).	
3	The system shall be able to detect the viral targets either in single sample or in mini-pool samples.	
4	The system must perform all steps from sample processing and viral nucleic acid extraction to target	
	amplification and detection automatically.	
5	The automation system provided must have the following features and must provide documentary	
	evidence that it can be achieved.	
	a. Positive sample identification with barcode scanning	
	b. Manually entered samples IDs possible	
	c. Disposable filtered tips must be used to prevent any carry over and cross contamination of	
	samples	
	d. Leaks, fibrin clots and bubble during aspiration and dispense cycles, and samples and reagent	
	can be detected and documented	
	e. True level sensing or insufficient volume detection for sample and reagent can be detected	
	and documented	
6	Selected company must supply appropriate and adequate units of air conditioning, other required	
-	accessories including UPS, tables, Hepafilter etc. as per instrument requirement.	
7	Selected company must provide a complete protocol for validation of the system in relation to	
	Installation Qualification (IQ), Operational Qualification (OQ) and Performance Qualification (PQ). The tenderer shall provide sufficient number of qualified personnel to assist validation process and	
	acceptance evaluation.	
8	The system should support multiplexed multidye in-vitro nucleic acid amplification testing feature for	
O	use in blood screening either in single unit blood donation or in mini pools of serum / plasma for the	
	presence of hepatitis B virus deoxyribonucleic acids (HBV DNA), human immunodeficiency virus	
ļ	ribonucleic acids (HIV-1 RNA) & (HIV-2 RNA) and hepatitis C virus ribonucleic acids (HCV RNA) in	
	human plasma or serum	
9	Reagents should be ready to use cassette format and stable either at room temperature or 2 to 8 °C	
	to avoid any unnecessary delay or inconvenience.	
10	Barcode facility should be provided for identification of the proper reagent for verification and cross	
	check for correct reagent placement as well as to ensure the expiry and lot of the reagents and	
	consumables	
11	The equipment should have computer interface facility with Blood Bank Interface System to reduce	
!	any chances of error.	
12	Selected Company must guarantee the system or any part there of commencing from the date of	
	acceptance certificate are in good working condition. They shall also replace faulty parts and provide	
	both scheduled and breakdown maintenance service by qualified maintenance personnel.	
13	The rate contract awarded firm must ensure that due to want of reagents and other consumables	
	the testing procedure should not be hampered even for one day and the firm shall maintain	
	sufficient buffer stock of reagents and consumables in Imphal without fail as per requirement	
14	Discriminatory test should be available on the same platform and must provide discriminated result	
	within 24 hours from starting of testing. Company should submit a SOP of complete procedure to the	
	institute.	

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	As Placed Pank have limited space, the NAT system must support single room eneration and Deagants
_	As Blood Bank have limited space, the NAT system must support single room operation and Reagents should be ready to use and each kit should contain positive and negative controls, calibrators,
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	internal controls and external control samples and all other necessary chemicals for the completion of the whole Test procedure. Instrument with less daily mentainence will be preferred.
16	Assay Performance – they should be able to detect accurately the following viral markers of
	a. HIV 1 & 2 (All HIV variants including subtypes)
	b. HCV genotype 1,2,3,4,5 and 6
	c. HBV genotype A,B,,C,D,E,F,G,H and pre core mutants
17	The selected company must provide proven data with details showing assay performance of the
	reagents for the detection of the requirements listed as above. Wider spectrums of viral genotypes
	detection will be advantageous in assessment
18	Analytical sensitivity of the complete assay performed on system should be at least
	a. HIV<55 IU/ml
	b. HCV<8 IU/ml
	c. HBV<3 IU/ml
19	The service provider shall specifically quote globally and scientifically known commercial automated
	NAT Testing system and Assays which should be approved by United States Food and Drugs
	Administration (US FDA), or European Standard (CE) and Competent Indian Authority for use in donor
	blood screening.
20	User will pay Cost Per Valid Reportable Donation i.e. if in a month, blood bank has 1000 donation and
	agreed rate is Rs. X, institute will pay 1000 x X (agreed rates) plus taxes only. This remain valid
	irrespective of Assay, method (ID/ Mini pool), Discriminatory tests, control and calibrator used.
	Institute will not pay anything extra for any repeat test, run fail, use of control, calibrator or any
	other relevant test.
21	The selected company must deploy Protocol for accurate identification, labelling and reporting of
	samples in mutual consultation and agreement with the authority
22	The service provider should provide free of cost maintenance of instruments for entire contract
	period. The system must have throughout of minimum 250 samples in 8 hrs and 500 samples in 12
	hrs (including detection and discrimination)
23	All reagents supplied shall be within 1/3rd of their shelf life (calculated from the printed dates of
	manufacture and expiry) at the time of delivery. Any expired and used reagents shall be replaced by
	the company free of cost.
24	Equipment shall be a newly manufactured one and not a refurbished system
25	The tenderer has to provide the test kits and consumables needed to run 1000 (One thousand) tests
	for validation and trial run

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Annex: 11

Terms and Conditions for Fully Automated NAT facility (Pre-transfusion Molecular Screening)

 Si. Terms and Conditions No. The institute wants to install fully automated NAT system (Pre-transfusion molecular screening) under reagent rental contract with 5 years validity. Validity may increase further depending on performance of the selected company. Under this model, the institue will not pay any money for the instrument, its maintenance and will only pay for the cost per valid donation of the Blood Bank. Role of the institue will be limited to providing space, tap water connection, security, electricity and power backup for the instrument. All other arragement including air conditioner, UPS, furniture, room modification etc. will be responsibility of the selected company. Company must provide man power for running of the instrument and role of this man power will be limited to collection of sample tube from blood bank personnel, performing test in the instrument and supply result to the blood bank concerned person within defined time frame. System should have facility to provide consolidated report on month end. Selected Company should submit seal and signed monthly report along with monthly invoice to the institute to release payment. Institute will make payment within 7-10 working days after receiving of the invoice (as per agreement). If any other blood bank's(other than RIMS) sample is run in this instrument, company must have facility to segregate separate report for all concerned blood banks. Such software should be provided free of cost to the institute. The institute will pay per valid donation only irrespective of reagent, control, calibrator, consumables used by the instrument. If any rerun require by the instrument and extra reagents need to be put in the instrument for this purpose, company should absorb that cost and should not pass any extra cost other than agreed rate to the institute e.g. if institute perform 1000 test and agreed rate is Rs.X, institute will insure the company is not allowed to charge anything extra		(Pre-transfusion Molecular Screening)		
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