		Resp	oonse To Pre-Bid Qu	eries (Pre-Bid date: 11.05.2020)	
				MR/COVID-19/01/2020-21 dated: 08-05-2019	
	T			Media (VTM) (2020_HLL_47913_1)	
SI.	Tender	TENDER SPECIFICATION	NAME OF THE	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION
No	Page &		FIRM		
1	Para Page 40,	Two separately packed sterile synthetic fibre	M/s HORIBA India	Two Sterile Swabs: -	Suitable changes made in the
1	Para 1	swabs (polyester, rayon, or Dacron) with	Pvt. Ltd.	1) Polyester swab with Plastic shaft (PP ABS) for	technical specification
	I did 1	plastic shafts or wire shaft (flexible Shaft).	T Vt. Ltd.	Oropharyngeal sampling	lectifical specification
		plastic sharts of whe shart (hexible shart).		2) Sterile Nylon Synthetic Fiber Flexible swab with	
				break point for Nasopharyngeal sample.	
				Sireux point for Nasophal yngedi sample.	
				Advantage:	
				Nylon Swab is softer for taking sample, high	
				bending, high Flexibility as compared to Polyester is	
				low bending, low flexibility which is hard to collect	
				nasal sample.	
2	Page 40,	2 10-15 ml volume screw-cap, leak-proof self-	M/s HORIBA India	10ml double cap round bottom/screw cap leaked	Suitable changes made in the
	Para 2	standing tubes containing 2-3 ml viral	Pvt. Ltd.	proof with 3ml media	technical specification
		transport medium (VTM)		Self-Standing/ Round Bottom.	
				Advantage:	
				3 ML advantage is that in case of resampling there	
				will be no sample shortage.	
				Double Cap ensures single handed operation and	
				avoid chances of cross contamination with	
				respected to screw cap.	
				Nylon swab, VTM and Polyester swab all three	
			NA/a NAisus us a situa	should come in single sterile packs	Cuitable above as used in the
3				As per ICMR Criteria The VTM Tube Is Not self-	Suitable changes made in the
			Laboratories Pvt Ltd.	standing It is Ok	technical specification
			Lta.		
	I	I			

4			Lifescience	Since getting self standing tube from manufacturer companies are difficult, can we offer medium in 15 ml Centrifuge tube or 10 ml	Suitable changes made in the technical specification
5			Healthcare Pvt Ltd	10-15 ml volume screwcap, leak-proof tubes containing 2-3 ml viral transport medium (VTM)" Justification: Non-self-standing tubes does not influence sample collection and thus it should be allowed	Suitable changes made in the technical specification
6	Page 40, Para 3	Vial should have labeling stickers	No queries		No queries
7		VTM should contain protective antibiotics, antifungal agents to control microbial contamination and buffer to stabilize the pH.	No queries		No queries
8		The pH should be 7.3+ 0.3 and the osmolality in mOsm/Kg H20 500.00-600.00	No queries		Suitable changes made in the technical specification
9		The medium should contain a cryoprotectant to preserve the viruses, if specimen are frozen for prolonged storage.	No queries		No queries
10	1	The medium should be stable at room temperature.	No queries		No queries
11		Should be European CE-IVD or US-FDA approved, if not should be validated and approved by any of the ICMR validation centres	No queries		No queries
12	Page 40, Para 9	Magnetic stands	No queries		No queries

13		Magnetic stand for RNA extraction with	<u> </u>		Suitable changes made in the
	1	capacity of 12 tubes, 24 tubes, 36 tubes and/or 96 tubes.	,	specification of viral RNA and VTM has mentioned, but the magnetic stand is continued in VTM specications, It is applicable for Viral RNA kit, kindly clarify for the same.	technical specification
14			M/s Agappe	Eligibility: Whether US-FDA is essential for all the	Not item not specified
			Diagnostics Ltd	three proposed items	

Response To Pre-Bid Queries (Pre-Bid date: 11.05.2020) Tender Enquiry No.: HITES/PCD/ICMR/COVID-19/01/2020-21 dated: 08-05-2019 Item No. 2 - RNA Extraction Kit (VTM) (2020_HLL_47913_2) GI. Tender TENDER SPECIFICATION NAME OF THE REPRESENTATION RECEIVED FROM THE FIRMS COMMITTEE

SI. No	Tender Page &	TENDER SPECIFICATION	NAME OF THE FIRM	REPRESENTATION RECEIVED FROM THE FIRMS	COMMITTEE RECOMMENDATION
	Para 20	Mit about division with allies we are because	MA/a Da KDC	d and Wind BNA Indiation With many factors of by Dr. KDC	No Change
1	Page 39,	Kit should work with silica membrane	M/s Dr. KPC	Ø eco' Viral RNA Isolation Kit manufactured by Dr. KPC	No Change
	Para 1	column or magnetic bead-based	Bioinnovations &	Bioinnovations &	
		technology allowing extraction of Viral	Diagnostics	Diagnostics is a silica membrane column less isolation kit	
		RNA from Human Samples (Plasma, CSF,		invented by Dr.	
		Urine, Other cell-free bodyextraction of		KPC Bioinnovations & Diagnostics.	
		Viral RNA from Human Samples (Plasma,		Ø The kit neither use silica membrane column or magnetic	
		CSF, Urine, Other cell-free body fluids		bead-based	
		and Cell-culture supernatants.)		isolation technology.	
				Ø eco' RNA Isolation Kit is a centrifugation based isolation kit.	
				Ø No use of silica membrane column reduces a huge amount of plastic	
				· ·	
				waste generation.	
				Ø eco' RNA Isolation Kit can save 3500 kg plastic waste	
				generation per million isolation compared to silica membrane column based isolation kit.	
				Ø The eco' Viral RNA Isolation Kit requires a heat block and a	
				tabletop	
				centrifuge for isolation which is commonly available in all the	
				pathological	
				lab/ diagnostic centres/ Virology lab.	
				Ø Kit protocol is such simplified, any technician can perform	
				the isolation	
				without having any previous experience of RNA Isolation.	
				Ø Steps involved in isolation is the same with silica membrane	
				column	
				based isolation.	
				Ø Carrier RNA is provided with the RNA isolation kit for better	

2	Page 39,	☑ Should be able to process sample	No queries		
	Para 2	volume from 25 µl to 300 µl and elution			
		volume from 30 to 100 μl.			
3	Page 39,	The kit should preferably use spiking	M/s Imperial Life	The kit should use spiking with carrier RNA to enhance	Suitable changes made
	Para 3	with carrier RNA to enhance quantity of	Sciences	quantity of eluted viral RNA (Optional; Applicable for kits	in the technical
		eluted viral RNA.		based on silica membrane column technology)	specification
				Reason:	
				This point need to be removed as this feature of spiking with	
				carrier RNA is available and applicable only for very few and	
				limited kits that too based on silica membrane column	
				technology	
4	1		M/s Genes2ME	The kit based on silica membrane column technology should	
			,.	preferably use spiking with carrier RNA to enhance quantity of	
				eluted viral RNA with Kits	
				Reason for Amendment: Spiking with carrier RNA is not	
				available in most of the available Viral RNA extraction Kits in	
				the market and only few Column based kits has this feature.	
				So, this point can be removed from the tender specifications	
5	Page 39,	Recovery of the Viral RNA should be	No queries		
	Para 4	more than equal to 85%			

6	1	Process of extraction may involve either centrifugation steps or magnetic	GCC Biotech (India) Pvt Ltd	Ideally magnetic bead based process is technically/scientifically non-viable	No Change
	''	stand based magnetic Bead separation.	(and should be removed.	
				If still considered – price/cost for	
				both process should be evaluated	
				separately as they are not	
				comparable cost wise.	
				Reason:	
				Technically both the processes are un-comparable due to its	
				technical application, and it is proven that yield of Nucleic acid	
				from column based technique is much higher than Bead based	
				technology and much user-friendly, time-saving with less time	
				consuming and manual handling easier for expert and/ or	
				new users.	
				If recommendation taken from scientist – they would reject	
				magnetic based process due to various disadvantages.	
				We suggest either if both process are considered costing/price	
				cannot be compared for both.	
7		☐ Time per batch extraction should less	No queries		
		than 60 minutes.			
8	Page 39,	☐ The extraction kit should be	M/s Trivitron	The extraction kit should be compatible with manual process	No Change
	Para 7	compatible with manual and/or	Healthcare Pvt Ltd	l	
		automated platforms		Justification:	
1				Automated platforms are closed system for extraction kits.	
I	I	I	L		

			M/s Dr. KPC Bioinnovations & Diagnostics	Ø eco' Viral RNA Isolation Kit is a manually operated RNA Isolation Kit. It won't work with automated platforms. Ø Although manually operated, any commonly available lab centrifuge can process a higher number of samples in less time using eco' Viral RNA Isolation Kit. Ø eco' Viral RNA Isolation Kit can process better number in less time compared to silica membrane column based automated platform	No Change
9	Page 39, Para 8	☑ Should be European CE-IVD or US-FDA approved should submit certificates or should be validated by any of the ICMR validation centres	No queries		
10	1 '	**Note: - If the RNA Extraction Kit offered is Magnetic Bead Type, then 10 numbers of magnetic stands are to be supplied per lakh tests offered and the offered price should include the price of offered magnetic stand (Size of the offered Magnetic Stand shall be mentioned specifically in the offer).	M/s LifeLine Pharma	If the RNA Extraction Kit offered is Magnetic Bead Type, then 10 numbers of magnetic stands + 4 Thermoshakers are to be supplied per lakh tests offered and the offered price should include the price of offered magnetic stand (Size of the offered Magnetic Stand and Thermoshaker shall be mentioned specifically in the offer). Reason: Both Thernoshakers and Magnetic stand are must required with Magnetic based Extraction kits and must be provided along with the kit so that to make sure smooth functioning of the tests and at scale at all the centres	Suitable changes made in the technical specification

11	M/s Labindia Healthcare Pvt. Ltd.	The bidder should follow the recommendation of ICMR for use of thermoshaker and magnetic stands, for whichever type of RNA Extraction Kit offered is Magnetic Bead Type/column type. In case of Magnetic Bead type, then 10 numbers of magnetic stands and upto 4 thermoshakers are to be supplied per lakh tests free of cost.	
12	M/s Patel Enterprises	Both Thermo shakers and Magnetic stand may be required for good quality results. Therefore the bidder must provide magentic racks and Thermoshakers free of cost along with Magnetic based Extraction kits for seamless working of the tests at all the centers. The bidder should also be able to supply the required Thermoshakers and Magnetic stand	
13	M/s Alliance Transfusion Pvt. Ltd.	It can be modified as: The bidder should supply the necessary equipments such as such magnetic racks, thermal heating blocks with vibrations, as recommended by any evaluating body of repute such as ICMR. The bidders should supply 10 magnetic racks and 3-4 thermal heating blocks with vibrations free of cost per 1 lakh extraction kits to ensure smooth functioning of the lab.	
14	M/s Agappe Diagnostics Ltd	Eligibility: Whether US-FDA is essential for all the three proposed items	No Change

Response To Pre-Bid Queries (Pre-Bid date: 11.05.2020) Tender Enquiry No.: HITES/PCD/ICMR/COVID-19/01/2020-21 dated: 08-05-2019 Item No. 3 - Combo RT-PCR COVID-19 Tests (2020 HLL 47913 2) REPRESENTATION RECEIVED FROM THE FIRMS COMMITTEE SI. Tender TENDER SPECIFICATION NAME OF THE Page & **FIRM RECOMMENDATION** No Para Item No. 3 - Combo RT-PCR COVID-19 M/s J. P. Industries What is your desired minimum or maximum pack size in terms of No. Page 39, No change required 1 of reactions per pack for "combo RT-PCR covid-19 Kit" say for 200 Tests Para 1 reaction or 500 reaction or 1000 reaction or any other packing as per the availability with the bidders Suitable for in-vitro qualitative M/s Advancells 1. In RT PCR kit, does the kit have to work with RNA Extractor kit or Not Acceptable 2 Page 39, detection of SARS-CoV-2 nucleic acids Para 1 Group can we bid RT PCR kit in throat (oropharyngeal) swabs, which is blood based and require no RNA Extraction 2. If bidding for such kit will it mean that the bid amount will be nasopharyngeal swabs, anterior nasal swabs, mid-turbinate nasal swabs, adjusted as RNA extraction nasal washes, nasal aspirates and and VTM both will not be required for this kit? broncho alveolar lavage fluid (BALF) from individual who are suspected of COVID-19 Page 39, Should be European CE-IVD or US-No queries No Queries FDA approved, if not, should be Para 2 validated and approved by any of the ICMR validation centres Company should have obtained Page 40, No queries No Queries marketing license for RT-PCR test kits Para 3 from the Drug Controller General India

or it may be parallel obtained.

5	Page 40,	☑ The Real-Time Fluorescent RT-PCR Kit	M/s LifeLine	The Real-Time Fluorescent RT-PCR Kit for Detecting SARS-CoV-2	Suitable changes made in
	Para 4	for Detecting SARS-CoV-2 should use	Pharma	should use fluorescent probe based TaqMan chemistry with multiplex	the technical
		fluorescent probe based TaqMan		reaction. Probes should have commonly used reporter dyes so as to	specification
		chemistry with multiplex reaction.		have compatibility with all types of real time PCR platforms. The	
		Probes should have reporter dyes in		supplier shall make sure that there kit will also work with QPCR	
		the range of Yellow and Green		machines having yellow and Green filters only.	
		channels, to have compatibility with all			
		types of real time PCR platform		Reason:	
		(machines)		IT will give	
				1. flexibility for labs to use 1 tube per sample with 3 channel machines	
				(85% of labs have such machines) - will do 92+ Samples per hour per	
				machine for these labs	
				2. It will also give flexibility to labs to use two tube per sample if they	
				have only 2 Channel machine using same kit	
				3. By doing this we will achieve mass supply, mass scale without any	
				additional capex need at same cost with same kit	
6			M/s Thermo Fisher	The Real Time Fluorescent RT PCR kit	Suitable changes made in
			Scientific	for detecting SARS-CoV-2 should use	the technical
			Invitrogen	Fluorescent probe based Taqman	specification
			Bioservices India	Chemistry with multiplex Reaction.	
			Pvt. Ltd.	Probes should have reporter dyes in	
				the range of spectral separation to	
				have compatibility with common RT	
				PCR machines available.	

			1
7	M/s 3B BlackBio		Suitable changes made in
	Biotech (I) Ltd	with Texas Red dye(ie orange channel)(The dye has an absorption	the technical
		wavelength that peaks around 589 nm, and an emission maximum	specification
		around 615 nm) which is available for detection on all four plex - real	
		time PCR platform (machines) ,-So we request you to insert this	
		(orange channel) also ,to make this orange channel also acceptable in	
		the specification	
8	M/s Siemens	Real time Fluorescent PCR kit for detection of SARS COV2should use	Suitable changes made in
	Healthcare Privat	fluorescentprobe-based chemistry assingle-plex or multiplex reaction.	the technical
	Limited	Probes shouldhave reporter dyes ascommonly used ones like	specification
		inGreen, Yellow, Red and Orange channels.	
		Justification:	
		Real time probe-based chemistries are	
		preferred one for highly specific	
		detection for pathogens, and probe could	
		be of various types. sensitivity and	
		specificity of assay can be 100% with	
		probes like molecular beacon, taqman or	
		hydrolysis probes labelled with multiple	
		types of dyes of different colors and	
		wavelengths. Limiting the specifications	
		to taqman probes with Yellow and green	
		channel only will lead to elimination of	
		various companies and disqualifying	
		without proper reason.	

7	M/s Labindia	The Real-Time Fluorescent RT-PCR Kit for Detecting SARS-CoV-2	Suitable changes made in
	Healthcare Pvt.	should use fluorescent probe based TaqMan chemistry with multiplex	the technical
	Ltd.	reaction. Probes should have commonly used reporter dyes so as to	specification
		have compatibility with all types of real time PCR platforms. Many	
		labs have RT-PCR machines with only 2 channels in which case the	
		supplier of the COVID 19 kits shall make sure that there kit will also	
		work with QPCR machines having yellow and Green filters only.	
10	M/s Alliance	It can be modified as: The COVID-19 RT-PCR Kit should use commonly	Suitable changes made in
	Transfusion Pvt.	used reporter dyes since across the country, various RT-PCR	the technical
	Ltd.	instruments are being used. It should be the responsibility of the kit	specification
		supplier (selected bidder) to privide compatible kits with all types of	
		real time PCR platforms wether 2 channels or more. The bidders	
		should provide written assurance that their kits shall will work with RT-	
		PCR machines having yellow and Green filters only	

M/s JITM Skills Pvt	1. The tender mentions that kits should be ICMR approved and also	Suitable changes made in
ltd	should have Taqman or / aswell Multiplex chemistry Our kits is	the technical
	sybergreen based with 100% accuracy certificate / approval by ICMR.	specification
	Also our kit is compatible with all the RT-PCR machines being used in	
	India Based on the certificates that we have obtained, will that be considered.	
	2. The mentioned quantity are tests or kits . If kits how many tests	
	should be there in kits.	
	We JITM Skills pvt ltd is manufacturer of COVID 19 Diagnostic Kits	
	approved by ICMR and developed by IIT Delhi.	
	This is a probe free one-Step RT/q-PCR based detection kit for	
	COOVID 19. The RNA Extracted from the Patient Sample (Nasal	
	swab/throat swab or other Suitable samples will be added to a PCR	
	Plate containing the Master Mix with the required components. The	
	PCR Plates will be subjected to reverse transcription and amplification	
	in a real-time PCR Instrument. This diagnostic assay is based on SYBR	
	Green dye for detection.	
	· Probe Free method\	
	· 100% sensitivity	
	· 100% specificity	
	· Result in less than 90 minutes	
	· The kit does not use fluorescent probes, hence cost effective	
	- Easily scalable	

12	M/s Trivitro Healthcare Pvi	The Real-Time Fluorescent RT-PCR Kit for Detecting SARS-CoV-2 should use Fluorescent probe chemistry with multiplex reaction Justification: TaqMan Chemistry is brand name and proprietary of one particular manufacturer that will disqualify other bidders.
13	M/s Patel Enterprises	,
14	M/s Denovo Technologies	The Real-Time Fluorescent RT-PCR Kit for Detecting SARS-CoV-2 should use fluorescent probe based TaqMan chemistry with multiplex reaction or Single plex reaction. Probes should have reporter dyes in the range of Yellow and Green channels, to have compatibility with all types of real time PCR platform (machines)
15	M/s J. P. Indus	tries The technology we are using in covid kit is probe free real time RT-PCR Diagnostic Kit. No requirement of probe makes it easy and accurate to diagnose. Our kit is compatible with all the machines on which probe based kit works. Are we eligible to participate with this product whose specificity and sensitivity both are declared as 100% by ICMR.

16	Page 40,	② If the kit is representing only one	M/s LifeLine	This point should be removed and invalid	Suitable changes made in
	Para 5	gene it should be of SARS CoV-2	Pharma	as per WHO/CDC and ICMR guidelines	the technical
		specific only and should have an			specification
		internal control of human		Reason:	
		housekeeping gene.		As the tender is for Combo RT-PCR COVID-19 Tests (Screening and	
				confirmation) only one gene kit will be invalid as for Screening it takes	
				1 Gene and for confirmation it takes minimum 1 gene. + internal	
				control of human housekeeping gene for both testing if done	
				separately.	
				With one gene for screening and confirmation chances of False	
				negatives will be very high and not recommended as per	
				WHO/CDC/ICMR guidelines.	
17			M/s Siemens	Multigene detection kits (combination of	Suitable changes made in
			Healthcare Private	screening and confirmatory assays) should have screening E gene	the technical
			Limited	along with confirmatory genes of ORF/RdRp/N gene of SARS CoV2	specification
				along with Internal control, positive control and negative control, to	
				asses sample extraction quality and RT PCR reaction	
				Justification:	
				Screening and confirmatory gene based kits are being used in high	
				quality controlled markets like in US and EU, with different types of	
				controls, and that could be Internal control, as extraction control	
				using synthetic RNA spiking to clinical	
				samples, and same is part of design of majority of assay	
				manufacturers including Thermo, Seegene, Altona, Labgenomics etc.	
				Adverse selection based on housPekeeping gene will discourage the	
				fair competition and at the end favoring few manufacturers only.	
				Regulatory agencies like FDA and CEIVD are approving kits with	
				internal control for better patient management	

18	M/s Thermo Fisher	This point pertains to singleplex kit, hence it should not be included in	Suitable changes made in
	Scientific	view of all other multiplex specifications in the mentioned tender	the technical
	Invitrogen		specification
	Bioservices India		
	Pvt. Ltd.		
19	M/s Labindia	This point should be removed as the WHO guidleines have clearly	Suitable changes made in
	Healthcare Pvt.	recommended usage of at least two different targets on the COVID-	the technical
	Ltd.	19 virus genome, of which at least one target is preferably specific for	specification
		COVID-19. We suggest, expunging the above point.	
20	M/s Gentix	If the kit is representing only one gene it should be of SARS CoV-2	Suitable changes made in
	Biotech Asia Pvt	specific only and	the technical
	Ltd	should have an internal control of human	specification
		housekeeping gene.	
		Or	
		Multiplex detection (combination of	
		screening and confirmatory assays) should have screening E gene	
		along with confirmatory genes	
		of ORF/RdRP/N genes of SARS-CoV-2	
		Justification:	
		These two point are contradictory it should	
		be either point 5 or point 6	
		Publication attached one gene is better results by avoiding false	
		positive or false negative	
21	M/s Patel	The Point is invalid and should be removedimmediately as tender is	Suitable changes made in
	Enterprises	for Combo PCR kit with Screening and Detection	the technical
			specification

22	7		M/s Alliance	It can be modified as: The WHO guidleines have stated a mimimum	Suitable changes made in
			Transfusion Pvt.	of two different targets on the COVID-19 virus genome, of which at	the technical
			Ltd.	least one is specific for COVID-19. In such a case, kits representing	specification
				only gene of SARS CoV-2 will be compromising on the quality of	
				testing.	
				Therefore, the above point should be removed.	
23	Page 40,	Image: Property of the	Altona Diagnostics	1) Include "S Gene" along with ORF/RdRP/N Gene.	Suitable changes made in
	Para 6	screening and confirmatory assays)	India Pvt Ltd		the technical
		should have screening E gene along		2)Internal control can be a human housekeeping gene or exogenous	specification
		with confirmatory genes of		control. (Reference Document attached.	
24		ORF/RdRP/N genes of SARS-CoV-2	M/s Alliance	It can be modified as: The single tube multiplex Real-Time	Suitable changes made in
		along with human housekeeping gene	Transfusion Pvt.	Fluorescent RT-PCR Kit for Detecting SARS-CoV-2 should have	the technical
		as an internal control to assess sample	Ltd.	screening gene along with preferable 2 confirmatory genes of	specification
		quality, RNA extraction and RT PCR		ORF/RdRP/N genes along with human housekeeping gene as an	
		reaction.		internal control. The use of 2 confirmatory genes will increase the	
				sensitivity and specifictiy of the testing kits while the single tube	
				format will be recommended as it will do 92+ samples per machine	
				per hour doing screening and confirmation at same time	
				Technical Specifications for the Extraction Kit	

25		Sciences	•	Suitable changes made in the technical specification
26		althcare Pvt. Ltd.	confirmatory genes of ORF/RdRP/N genes (2 Confirmatory genes will	Suitable changes made in the technical specification
27	M/s			Suitable changes made in the technical specification

28	
29	
30	
31	

M/s Thermo Fisher	Multiplex Detection [Combination of screening & confirmatory	Suitable changes made in
Scientific	Assays] kit which should be US-FDA/CEIVD/ICMR approved and	the technical
Invitrogen	should have screening E-Gene/S-Gene with confirmatory Genes of	specification
Bioservices India	ORF/RdRP/N genes of SARS-CoV-2 along with Internal Control.	
Pvt. Ltd.		
M/s Patel	Besides screening E gene, at least any 2 of confirmatory genes such	Suitable changes made in
Enterprises	as ORF/RdRP/N genes of SARS-CoV-2 along with human housekeeping	the technical
	gene as an internal control should be present in the multiplex Real-	specification
	Time Fluorescent RT-PCR Kit for Detecting SARS-CoV-2 kit. The human	
	housekeeping gene as an internal control is specially important to	
	assess sample quality, RNA extraction and RT PCR reaction.	
M/s Perkin Elmer	The kit representing multiplex detection, it should have any two	Suitable changes made in
	genes ORF/RdRP/N/E genes of SARS-CoV-2 along with human	the technical
	housekeeping gene as an internal control to assess sample quality,	specification
	RNA extraction and RT PCR reaction	
M/s Denovo	Multiplex detection or single plex (combination of screening and	Suitable changes made in
Technologies	confirmatory assays) should have screening E gene along with	the technical
	confirmatory genes of ORF/RdRP/N genes of SARS-CoV-2 along with	specification
	human housekeeping gene or internal control as an internal control	
	to assess sample quality, RNA extraction and RT PCR reaction.	

- 22	1	24/ 1:5 1:	lander to the control of the control	6
32		M/s LifeLine	Multiplex detection (combination of screening and confirmatory	Suitable changes made in
		Pharma	assays) should have screening E gene along with confirmatory genes	the technical
			of ORF/RdRP/N genes (2 Confirmatory genes will be preferred as it	specification
			will ease repeat testing) of SARS-CoV-2 along with human	
			housekeeping gene as an internal control in a single tube format to	
			assess sample quality, RNA extraction and RT PCR reaction.	
			Reason:	
			It will help as	
			1. Including 2 confirmatory gene over 1 is highly recommended as it	
			will	
			Remove repeat testing (time and cost) as it is recommended that for	
			every Screening positive and Confirmatory negative sample.	
			It will remove chance of false negatives as with 2 genes chances of	
			missing both in test will be rare.	
			There are cases of single gene not detected due to localised mutation.	
			Having 2 confirmatory genes will remove that risk and make detection	
			accurate.	
			2. Single tube format will be recommended as it will do 92+ samples	
			per machine per hour doing screening and confirmation at same time	
			compared to 31-42 samples per hour per machine compared to 2/3	
			tube format.	
33	Page 40, 2 The assay should be robust and			No Queries
	Para 7 compatible with RNA extracted using			
	different viral RNA extraction kits			
	available in the market.			
	1			

24	Daga 40	The kit supplied should be open	M/s Gentix	The kit supplied should be onen anded, compatible to most of DT DCD	No change required
34	_	The kit supplied should be open	·	The kit supplied should be open ended, compatible to most of RT-PCR	INO change required
	Para 8	ended, compatible to any kind of RT-	Biotech Asia Pvt	machine (minimum 3) available in market	
		PCR machine available in market.	Ltd		
				Justification:	
				CE IVD approved kits are validated on	
				system its compatible to many system but	
				validated on most used systems globally (like	
				BioRad, Thermo and Roche)	
35			M/s Thermo Fisher	Multiplex kit requires specific dye combinations which can be	Not Acceptable
			Scientific	detected only by select instrument models and hence will not be	
			Invitrogen	compatible with any kind of RT-PCR machine	
			Bioservices India	available in market. Suggested Change: Remove this point if the	
			Pvt. Ltd.	requirement is for multiplex kit.	
36			M/s Imperial Life	Point to be added:	Suitable changes made in
			Sciences	Multiplex assay with minimum two confirmatory genes from	the technical
				ORF/RdRP/N genes of SARS- CoV-2 should be mandatorily present in	specification
				the quoted Kit	
				Reason:	
				Requirement of Minimum two genes in confirmatory assay should be	
				included as it will reduce the Re-testing rate and false negatives	
				ultimately leading to enhanced specificity and sensitivity. It will also	
				save onto cost which is involved in Repeated testing and shall also	
				allow testing more number of samples at the	
				same time	
				Sume time	

37	M/s Genes2ME	Addition of New Specification Point: Multiplex assay having at least two confirmatory genes of ORF/RdRP/N genes of SARS-CoV-2 should be there in the test kit. Reason for Amendment: Addition of this point will make the test specifications more superior. This will save lot of time and efforts which goes in repeat testing on the sample. By addition of 2 genes for confirmation will increase the sensitivity of the Test.	Suitable changes made in the technical specification
38	M/s Thermo Fisher Scientific Invitrogen Bioservices India Pvt. Ltd.	Please, consider addition of following latest and important aspect of Combo RTPCR COVID-19 TESTS: 1. The kit should offer multiplex solution- all the target genes should be in single tube, so as to run maximum samples in single run. The throughput should be 90+ samples in less than 2 hours on Real Time PCR. 2. The kit should detect target S gene for both screening and confirmation with reduced homology to other similar coronavirus strains. 3. The kit should target 100% of all currently available complete genomes for 2019 nCoV. 4. The kit should have high sensitivity and LOD with ~10 GCE/rxn	Suitable changes made in the technical specification
39	M/s Agappe Diagnostics Ltd	Eligibility: Whether US-FDA is essential for all the three proposed items	Not item not specified

40		M/s HORIBA India	Dual Targets suggested by US CDC and WHO for RdRp and N genes	Suitable changes made in
		Pvt. Ltd.	& the kit is approved by ICMR would the same qualify for tender.	the technical
			 Offering a Single-Tube Real-Time RT-PCR Reaction for maximum 	specification
			utilization	
			Need information Expected preferred LOD (Limit of Detection)	
			• Need information on % CV of the kit preferred requirement Intra &	
			Inter day performance	
			• Expected minimum TAT (expected turnaround Time for RT PCR) kits	
			• If a kit is approved by ICMR can the same be quoted – attached for	
			reference	