छायाँनाथ रारा नगरपालिका
नगरकार्यपालिकाको कार्यालय
गमगढी, मुगु

कर्णाली प्रदेश, नेपाल

For

PROPOSAL DOCUMENT

Procurement of RT-PCR Machine and LabEquipment with kits, reagents, accessories

Supplier's Name: .....

Address: .....

Contact No.....

Date: .....

छायाँनाथ रारा नगरपालिका
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PCR Machine, Lab setup तथा Reagent खरिद सम्बन्धि सूचना

प्रथम पटक सूचना प्रकाशित मिति : २०७७०५।२९

विश्व तथा नेपालमा महामारीको रुपमा फैलिएको COVID १९ को उपचार नियन्त्रण तथा प्रतिकार्यका लागि **PCR Machine, Lab setup तथा Reagent खरिद** हालको आपतकालिन अवस्थामा सार्वजनिक खरिद ऐन, २०६३ को दफा ६६ तथा नियमावलीको नियम १४५ बमोजिम विशेष परिस्थितिमा खरिद गर्नु पर्ने भएकोले इजाजत प्राप्त फर्म वा कम्पनी वा आपूर्तिकर्ताले आ.व २०७५।७६ को करचुक्ता प्रमाणपत्र, मूल्य अभिवृद्धि कर दर्ता प्रमाण पत्र तथा इजाजत पत्र र विश्व स्वास्थ्य संगठनले मान्यता दिएको आधिकारिक पत्रको छायाँकपि सहित यो सूचना प्रकाशित भएको मितिले ७ (सात) दिन (सातौं दिनको ५:०० बजे) भित्र छायाँनाथ रारा नगरपालिकाको **website: chhayanathraramun.gov.np** बाट आर्थिक प्रस्ताव डकुमेन्ट डाउनलोड गरि आपुर्ति कर्ताले आपूर्ति गर्ने उपकरणको स्पेशिफिकेशन र सामान आपुर्ति गर्न लाग्ने समय समेत खुलाई प्रस्ताव कार्यालयको इमेल ठेगाना **info@chhayanathraramun.gov.np** पेश गर्न हुन जानकारी गराईन्छ । सूचनामा मांग गरिएको कागजात अनिवार्य रुपमा पेश गर्नु पर्ने छ । अन्यथा त्यस्ता प्रस्तावहरु मूल्यांकनमा समेत समावेश गरिने छैना यस सम्बन्धमा विस्तृत जानकारी चाहिएमा उक्त इमेलमा लेखि पठाउन हुन वा फोन नं ९८५८३२२३६४ बाट जानकारी लिन सकिनेछ ।

प्रमुख प्रशासकीय अधिकृत

1. Price Quotation and PriceSchedules

Date:

To: *[name and address of the Purchaser]*

Gentlemen and/or Ladies:

Having examined the Direct Purchase (DP) documents, we the undersigned, offer to supply and deliver ***[description of goods and services]*** in conformity with the said DP documents for the sum of ***[total amount in words and figures]*** or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Price Quotation.

We undertake, if our Price Quotation is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

We agree to abide by this price Quotation for a Period of 4**5** days from the last date fixed for submission of the Price Quotation..

Until a formal Contract is prepared and executed, this Price Quotation, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any Price Quotation you may receive.

Datedthis_____dayof_____20____.

[Signature] *[In the capacityof]*

DulyauthorizedtosignPriceQuotationfor andonbehalfof_____

RT-PCR Machine and Lab Equipment with kits, reagents,accessories

1 . Price Schedule

S.NO.	Description	Unit	Quantity	Unit Price in NRs.		Total Price	Remark
				In Figure	In Words		
1	RT-PCR Machine	**set**	**1**				
2	Bio safety Cabinet Class II		**1**				
3	PCR Cabinet or Laminar Flow		**1**				
4	Auto Clave Horizontal		**1**				
5	Micro Centrifuge (High Speed)		**1**				
6	Refrigerated Centrifuge (High Speed)		**1**				
7	Vortex Mixture		**1**				
8	Freezer -20		**1**				
9	Freezer -80		**1**				
10	Multi-Channel Pipette		**5**				
11	Pipette Variable different size (2 each)		**10**				
12	Spin Centrifuge		**1**				
13	Supply & Installation of Inverter type(wall mount) Air Conditioner 2 ton with all complete work		**4**				

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		PACK Size	Quantity (				
14	Real Time RT-PCR Kits for SARS Cov-2		**500 Test**				
15	RNA extraction reagent for manual extraction		**500 Test**				
16	3ml VTM (with 2 swabs) one for each sample		**1000 vial**				
17	Pipette Rack		**1**				
18	Filter tips with Rack 0.2-10ul (96*10)		**1**				
19	Filter tips with Rack 20-200ul		**1**				
20	Filter tips with Rack 10-1000ul		**1**				
21	Storage Rack For microcentrifuge tubes 1.5- 2ml		**1**				
22	Neclease free eppendrof tube / microcentrifuge tube 2ml (1000PCs)		**1**				
23	Neclease free eppendrof tube / microcentrifuge tube 0.5 ml (Pcs)		**1**				
24	PCR tube (0.2ml) (1000PCS)		**1**				
25	PCR strip (0.1ml) (8*125)		**1**				
26	Zip lock bag plastic (large) (100pcs)		**10**				
27	Zip lock bag plastic (medium) (100PCs)		**10**				

28	Autoclavable Biohazard bag (100pcs)		**10**				
29	Almunium foil		**5**				
30	falcon tube 15ml		**500**				
31	Parafilm		**2**				
32	Cryobox		**50**				
33	Nitrite gloves-M		**10**				
34	Analytical Ethanol 99.99% (500ml)		**20**				
Total Amount							
VAT 13%							
Total Including VAT							

Total Price (in words)..

Bidder's Name:……………………………………………..   Signature of Bidder

Address:…………………………

……   Contact No.………………

नि. प्रमुख प्रशासकीय प्रमुख

Schedule of Requirements

S.NO.	Item	Unit	Place of Delivery	Delivery Schedule	Bidders Offer
1	RT-PCR Machine and Lab Equipment with kits, reagents, accessories	Set	**Chhayanath Rara Municipality** Gamgadhi, Mugu	Within 10 days from Contractsign.	

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Evaluation and Qualification Criteria

Evaluation Criteria

a) Delivery schedule: Supplier should supply & installation of this package. As per Schedule of Requirement.

b) Supplier should submit the technical specifications (technical data sheet) of this package with the proposaldocument.

Technical specifications
Real Time PCR System

S.No.	Purchaser's Specifications	Bidder's Compliance Sheet		
	Real Time PCR System	**Yes/No**	**Page No. in Catalogue**	**Remarks**
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country of Origin			
1	**Description of Function**			
1.1	Real Time PCR is an instrument that employs precise temperature control and rapid temperature changes to conduct the polymerase chain reaction (PCR) with Real-time Amplification of DNA/RNA from purified samples.			
2	**Operational Requirements**			
2.1	Real Time PCR Thermal Cycler Mechanism system along with micro centrifuge tubes and PCR tubes.			
3	**System Configuration**			
3.1	Real Time PCR Thermal Cycler Mechanism system with automatic DNA extraction / detection System			
4	**Technical Specifications for Real Time PCR**			
4.1	**Sample Layout:** Should be flexible for the tube input volumes having capability of running at least 72 or 96 samples. System must berotor based system or plate based system.			
4.2	**Uniformity:** Should have uniform temperature distribution. Should maintain optical detection in all wells for maximum uniformity.			
4.3	**HRM:**SystemshouldhaveHRMtoolwithstatisticalanalysissoftware. Should have high resolution SNP screeningcapability.			
4.4	**Chemistries:** Should come with standard chemistries for gene expression, quantification, miRNA, mutation scanning, genotyping, methylation studies etc. Should also be an open system for other kit suppliers.			
4.5	**Optical detection:** At least 6 filtered Photodiodes			
4.6	**Emission:** At least 5 targets.			
4.7	**LightSourceLifespan:**Warrantyonlightsourceforminimum20years			
4.8	**Excitation Multiplexing:** Minimum upto 5 targets			
4.9	**Reaction Volume:** 5 µL - 150 µL			
4.10	**Performance Temperature accuracy:** ±0.5°C			

4.12	**Channels:**Real-timePCRcyclerandHRMinstrumentwith5channels.			
4.13	**Detection Device:** Photomultiplier Tube (PMT) for higher sensitivity with sensitivity control.			
4.14	**Excitation/emission wavelengths range:** 450-715nm			
4.15	**Dynamic range:**10 orders of magnitude			
4.16	**RampingRate(peak):**fastrampingof5°Cto10°Csec			
4.17	**Sensitivity:** Single copy gene			
4.18	**Contamination Protector:** The system must have contamination protector so as to avoid DNA carryover contamination.			
4.19	**Software:** Should have user friendly software for data Analysis			
5	**Computer Requirement:**			
5.1	**Laptop Configuration:** Must be supplied with suitable i5 6th Generation, 500GB laptop and printer.			
6	**Accessories, Spares and Consumables**			
6.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in theoffer. Bidders must specify the quantity of everyitem included in their offer (including items not specified above).			
7	**Operating Environment**			
7.1	3KVA online UPS Backup of suitable rating for at least 60 minutes to be supplied for the entire system.			
7.2	The system offered shall be designed tostore and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity,etc.			
7.3	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plugs to meet purchaser'scountry requirements.Thepowercablemustbeminimum3metres long.			
8	**Standards and Safety Requirements**			
8.1	Must submit ISO 9001 or ISO 13485 for medical devices			
8.2	Must submitFDA/CE &CE-IVD certified approved product certificate.			
8.3	Must submit Validmanufacturer authorization letter.			
9	**User Training**			
9.1	Must provide user training (including how to use and maintain the equipment).			
10	**Warranty**			
10.1	Comprehensive warranty for 2 years			
11	**Maintenance Service During Warranty Period**			

11.1	During the warranty period supplier must ensure corrective/breakdown maintenancewheneverrequired.			
12	**Installation and Commissioning**			
12.1	Supplier must accomplish proper installation &commissioning onsite.			
12.2	Application training must be given on site and minimum 10 test to be done in the lab at the time of training and installation			
13	**Documentation**			
13.1	User (Operation) manual in English.			
13.2	Service (Technical / Maintenance) manual in English.			
13.3	List of important spare parts and accessories with their part number and costing.			
NOTE: -Bidder must completely fill the Technical specification form(TSF). Only Yes/no/all complies should not be written. Page number in catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee.				

1. TechnicalSpecificationofBiologicalSafetyCabinet(BSC)

S.N.	Purchaser's Specifications 90	Bidder's Offer	Yes	No	Pg No of Catalog
	BSC Class II type A2				
	Manufacturer				
	Brand				
	Type / Model				
	Country of Origin				
1	**Description of Function**				
1.1	BSC Class II used for safely working with materials contaminated with or potentially contaminated with pathogens requiring a defined biosafety level with integrated temperature-compensated airflow monitoring system.				
2	**System Configuration**				
2.1	BSC Class II type A2 with complete accessories ensuring both the safety of sample and environment.				
3	**Technical Specifications**				
3.1	External Dimensions (W x D x H) with optional base stand Size: 136*79*220 (cms) Approx.				
3.2	Internal Work Area Dimensions (W x D x H) Size: 116*61*68 (cms) Approx.				
3.3	Tested Opening : 203 mm (8") Approx.				
3.4	Material: Main Body Should be made of mild steel duly epoxy coated powder and inner chamber is totally made of joint less stain less steel 304 grade.				
3.5	Main filter: High-efficiency Particulate Air (HEPA) filter with 99.999% efficiency at 0.3 micron				
3.6	Light and UV Lamp with LED indicator, LCD Display, UV Timer				
3.7	Motorized front window consist of frameless laminated UV resistance shattered proof glass door.				

3.8	Low heat and low energy consumption offering 70% more energy savings				
3.9	Average airflow velocity (Inflow) of 0.53 m/s (105 fpm) at initial set point				
3.10	Air flow system is 70% air recirculation and 30% exhaust.				
3.11	Noise Level: 55 dB Approx.				
3.12	Audio visual alarms				
3.13	Power: 220-240V/ 50 Hz AC with appropriate plug to meet purchaser's country requirements.				
3.14	Normal Power Consumption.				
3.15	Angle arm rest for comfortable working position				
4	**Accessories, spares and consumables**				
4.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).				
5	**Operating Environment**				
5.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.				
5.2	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plug to meet purchaser's country requirements.				
6	**Standards and Safety Requirements**				
6.1	Must submit CE and ISO 14644-1 Class 3 air quality				
7	**User Training and Technician Training**				
7.1	The Supplier shall conduct onsite and offsite user and Biomedical technician training for this equipment to enable operators and Biomedical technician to use the equipment properly. The training shall include the use of all operational functions of the equipment, as				

	well as routine checks and maintenance expected by users and Biomedical Technician.				
8	**Warranty**				
8.1	Comprehensive warranty for 2 years.				
9	**Maintenance Service during Warranty Period**				
9.1	During warranty period supplier must ensure corrective/ breakdown maintenance whenever required.				
10	**Transport, Installation and**				
10.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel at different 5 laboratorieslocated				
11	**Documentation**				
11.1	User (Operating) manual in English				
11.2	Service (Technical / Maintenance) manual in English				
11.3	List of important spare parts and accessories with their part numbers				
11.4	Authorization Letter from the Company is must.				
	Note : **Bidder must completely fill the Technical Specification Form (TSF). Only Yes/no/all complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee.**				

i. Technical Specification of PCR Cabinet or Laminar flow

S.N.	Purchaser's Specifications	Bidder's Compliance
	PCR Cabinet or Laminar flow	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	**Description of Function**	
1.1	PCR cabinet used for safely working with potentially contaminated with pathogens requiring a safety of contamination less work with safety of operator.	
2	**System Configuration**	
2.1	PCR cabinet with complete accessories ensuring both the safety of sample and environment with interlock function.	
3	**Technical Specifications**	
3.1	External Dimensions (W x D x H) size : 1500 x 695 x 1700 (mm) approx. or equivalent size.	
3.2	Internal Dimensions (W x D x H) Size: 1400 x 580 x 520 (mm) approx. or equivalent size.	
3.3	Airflow Velocity: 0.2 – 0.5 m/s with adjustable speed	
3.4	Main filter: High-efficiency Particulate Air (HEPA) filter with 99.999% efficiency at 0.3 micron.	
3.5	Motorized front window consist of frameless laminated UV resistance toughened glass	
3.6	Light and UV Lamp with LED indicator,	
3.7	Illuminating lamp should be LED and Illumination should be≥500Lux.	
3.8	LCD or LED Display.	
3.9	Noise Level: ≤65dB Approx.	
3.10	Material: Work zone should be made of stainless steel, Main body: cold-rolled steel with anti-bacteria powder coating.	
3.11	Power: 220-240V/ 50 Hz AC with appropriate plug to meet purchaser's country requirements.	
4	**Accessories, spares and consumables**	
4.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Biddersmust specify the quantity of every item included in their offer	

5	**Operating Environment**	
5.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
5.2	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plug to meet purchaser's country requirements.	
6	**Standards and Safety Requirements**	
6.1	Must submit CE and ISO 14644-1	
7	**User Training**	
7.1	Must provide user training to the Staff (including how to use and maintain the equipment).	
8	**Warranty**	
8.1	Comprehensive warranty for 1 years.	
9	**Maintenance Service during Warranty Period**	
9.1	During warranty period supplier must ensure corrective/ breakdown maintenance whenever required.	
10	**Transport, Installation and Commissioning**	
10.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualifiedpersonnel.	
11	**Documentation**	
11.1	User (Operating) manual in English	
11.2	Service (Technical / Maintenance) manual in English	
11.3	List of important spare parts and accessories with their part numbers and costing.	
11.4	Authorization Letter from the Company is must.	

i. Technical Specification of Autoclave(50L)

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	Autoclave			
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Autoclaves are required for sterilizing an objectin high temperature and high pressure steam.			
2	**Operational Requirements**			
2.1	Vertical autoclave, universal basic version for microbiological standard laboratory to sterilize liquids, instruments, glassware, plastic articles or general infectious waste.			

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S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
3	**System Configuration**			
3.1	Autoclave with complete accessories			
4	**Technical Specifications**			
4.1	Triple walled construction; chamber, door, doorframe, bolts made ofcorrosion-resistant material and able to prevent stresscracking.			
4.2	Compact, portable easily moveable on non-rusting, non-marking castors from one place to another place. The wheels/castors shall have brakes.			
4.3	Sterilizing For water, culture media, reagents and other fluids. After completion and cooling to a selected temp., air is expelled automatically through the exhaust valve. Sterilizing temp.: 115°C to 135°C Timer: 1 to 300 min. Exhaust temp.: 0°C to 45°C			
4.4	Instrument Sterilizing For flasks, beakers, test tubes, other lab instruments. When completed, the exhaust valve opens and the temp. drops to 100°C. Thus, cool down period can be shortened. Suitable for equipment that can withstand sharp drops in pressure and for sterilizing waste. Sterilizing temp.: 115°C to 135°C Timer: 1 to 300 min.			
4.5	Sterilizing/Keep Warm After sterilizing culture media, reagents and other liquids, and cooling down naturally to a selected temp., air is expelled automatically from the exhaust valve. High temp. prevents solidifying. Sterilizing temp.: 115°C to 135°C Timer: 1 to 300 min.			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	Exhaust temp.: 0°C to 45°C Incubation temp.: 45°C to 60°C			
4.6	Melting/Keep Warm To melt or keep culture media at a fixed temp. (This function is not for sterilizing but prevents solidifying). Melting temp.: 60°C to 114°C Timer: 0 to 300 min., 72 hrs. Incubation temp.: 45°C to 60°C			
4.7	Chamber volume: ≥50 litres.			
4.8	Exhaust tank: 2-liter polyethylene tank			
4.9	Chamber material: SUS304 (Austenitic stainless steel)			
4.10	Keep warm timer: 72 Hrs. Fixed			
4.11	Program Timer: 1 week (Designation: Year, month, day, hour and minute)			
4.12	Fast safety lid lock.			
4.13	Lid lock by a circumferential, durably heat- and pressure-resistant seal.			
4.14	Control lock-out switch that prevents starting a cycle if the door is not locked safely.			
4.15	Control that prevents opening the door until chamber is depressurized.			
4.16	Temperature-dependent door-locking system according to international standard.			
4.17	Maximum operating pressure: 0.240MP bar. Maximum operating temperature: 135 ^{0}C			
4.18	Sterilisation timer: 1–300 minutes.			
4.19	Instrument sterilization timer: up to 72 hours.			
4.20	Melting timer: 1–300 minutes.			
4.21	Exhaust valve open temperature setting			
4.22	Microcomputer control system.			
4.23	The control panel to be mounted so that the components sensitive to steam and heat are protected.			
4.24	display showing: • temperature • steampressure • sterilizationtime • stage ofcycle			

S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
	• alarminformation			
4.25	Lid interlock.			
4.26	Alarm: audible, with display on dysfunction.			
4.27	All information on alarm to be in full writing and not based on a code.			
4.28	Safety devices: Pressure safety valve, over-temperature limiter, anti-scorch limiter, door interlock, over-pressure limiter, current fuse			
4.29	Pressure vessel type: Small-scale pressure vessel			
4.30	A manual control that can run a complete cycle manually in case of system failure.			
5	**Accessories, spares and consumables**			
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).			
6	**Operating Environment**			
6.1	The system offered must be designed to store and be operated normally under the condition of the purchaser's Country. The conditions include Power supply, Climate, temperature and relative humidity.			
6.2	Power supply: 220-240V/ 50 Hz AC Single phase or 380-400V AC 50 Hz Three phase fitted with appropriate plugs to meet purchaser's country requirements. The power cable must be minimum 3 metres long..			
7	**Standards and Safety Requirements**			
7.1	Must submit ISO 9001 and CE			
8	**User Training**			
8.1	Must provide user training (including how to use and maintain the equipment).			
9	**Warranty**			
9.1	Comprehensive warranty for 1 years.			
10	**Maintenance Service during Warranty Period**			
10.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.			

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S.N.	Purchaser's Specifications	Bidder's Offer	Deviation if any	Page no. of catalogue/ datasheet/ manual
11	**Installation and Commissioning**			
11.1	The bidder must arrange for the equipment to be installed by certified or qualified personnel; any prerequisites for installation to becommunicated to the purchaser in advance, in detail.			
12	**Documentation**			
12.1	User (Operating) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	List of important spare parts and accessories with their part number and costing.			
12.4	Certificate of calibration and inspection from factory.			

NOTE:-Bidder must completely fill the Technical specification form(TSF). Only Yes/no/all complies should not be written. Page number in catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technicalcommittee.

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ii. Technical Specification of Micro Centrifuge

S.N.	Purchaser's Specifications	Bidder's Compliance Sheet		
	Micro Centrifuge	**Yes/No**	**Page No. in Catalogue**	**Remarks**
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Micro centrifuge is a piece of equipment, generally driven by a motor that puts an object in rotation around a fixed axis, applying force perpendicular to the axis. The centrifuge works using the sedimentation principle. Where the centripetal acceleration is used to separate substances of greater and less density.			
2	**Operational Requirements**			
2.1	Lightweight and Compact in size.			
3	**System Configuration**			
3.1	Micro centrifuge with digital display. The centrifuge bodyis made of high quality steel, stainless steel chamber, safe and reliable.			
4	**Technical Specifications**			
4.1	Must have Max Speed 16,000 RPM			
4.2	RCF 17940 x g			
4.3	Must be maintenance free brushless motor.			
4.4	Must have Acc / Dec of at least 10 types.			
4.5	LCD display for RCF, Time and Speed.			
4.6	Micro controller based program			
4.7	Hold at least 12 tubes of 1.5 / 2.0 ml.			
4.8	Timer up to 0 ~ 99min 59sec			
4.9	Electric lid lock, super speed, imbalance protection.			
5.0	Noise level shall be less than 55dB			
5	**Accessories, spares and consumables**			
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in theoffer.			
6	**Operating Environment**			
6.1	The system offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220 - 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.			

7	**Standards and Safety Requirements**			
7.1	Must submit ISO13485:2003/ AC:2007 **AND**			
7.2	CE approved product certificate.			
8	**User Training**			
8.1	Must provide user training (including how to use and maintain the equipment).			
9	**Warranty**			
9.1	Comprehensive warranty for 1 years after acceptance.			
10	**Maintenance Service During Warranty Period**			
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance wheneverrequired.			
11	**Installation and Commissioning**			
11.1	Supplier must accomplish proper commissioning of the equipment on site.			
12	**Documentation**			
12.1	User (Operation) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	List of important spare parts and accessories with their part numbers and costing.			
12.4	Certificate of calibration and inspection from factory.			

NOTE:-Bidder must completely fill the Technical specification form(TSF). Only Yes/no/all complies should not be written. Page number in catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technicalcommittee.

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iii. Technical Specification of Refrigerated Centrifuge

S.N.	Purchaser's Specifications	Bidder's Compliance Sheet		
	RefrigeratedCentrifuge	**Yes/NO**	**Page No. in Catalogue**	**Remarks**
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	Centrifuges are required in the Laboratory to separate various components of Blood and any other liquid sample for analysis.			
2	**Operational Requirements**			
2.1	Refrigerated centrifuge is melt housing, safe & compact, it is of microprocessor control, less noise & fast cooling			
2.2	Table top version, maintenance free brushless motor.			
3	**System Configuration**			
3.1	Centrifuge complete with Swing out or angle rotors.			
4	**Technical Specifications**			
4.1	Tube Capacity :No. 12 :Size 1.5 – 2 ml			
4.2	Must be micro controller based program.			
4.3	Must have LCD display for RCF, time and speed.			
4.4	Must be made of strong fabricated & corrosion resistant steel inside.			
4.5	Timer up to 0 ~ 99hr 59min			
4.6	Must have safe lid lock with insert alarm & over-speed protection			
4.7	Maintenance-free brushless drive motor with exact speed pre selection and display.			
4.8	Max speed 16,000 RPM and Max RCF 17940 × g with speed accuracy ±20 RPM			
4.9	Temperature range –20 °C to 40°C			
5.0	Noise level shall be less than 55dB			
5	**Accessories, spares and consumables**			
5.1	**Accessories:** All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).			

6	**Operating Environment**			
6.1	The system offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220 - 240 VAC, 50Hz fitted appropriate plug. The power cable must be at least 3 metre in length.			
7	**Standards and Safety Requirements**			
7.1	Must submit ISO13485:2003/ AC:2007 for Medical Devices **AND**			
7.2	CE (93/92 EEC Directives) approved product certificate.			
8	**User Training**			
8.1	Must provide user training (including how to use and maintain the equipment).			
9	**Warranty**			
9.1	Comprehensive warranty for 1 years after acceptance.			
10	**Maintenance Service During Warranty Period**			
10.1	During the warranty period supplier must ensure planned preventive maintenance (PPM) and corrective/breakdown maintenance whenever required.			
11	**Installation and Commissioning**			
11.1	The bidder must arrange for the equipment to be installed and commissioned bycertified or qualified personnel; any prerequisites for installation to becommmunicated to the purchasers in advance, in detail.			
12	**Documentation**			
12.1	User (Operation) manual in English			
12.2	Service (Technical / Maintenance) manual in English			
12.3	List of important spare parts and accessories with their part number and costing.			
12.4	Certificate of calibration and inspection from factory.			

NOTE:-Bidder must completely fill the Technical specification form(TSF). Only Yes/no/all complies should not be written. Page number in catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technicalcommittee.

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iv. Technical Specification of Vortex Mixer

S.N.	Purchasers Technical Specification	Bidder's Offer
	Vortex Mixer	
	Manufacturer :	
	Brand:	
	Model:	
	Country of Origin:	
	Description ofFunction	
1.	A vortex mixer, or vortexer, is a simple device used commonly in laboratories to mix small vials of liquid. Designed for mixing liquids for samples and chemicals.	
2.	**Operational Requirements:** A vortex mixer with speed changeable from regulator knob provided on control panel.	
3.	**SystemConfiguration:** Vortex mixer with complete accessories for mixing different tubes and vials.	
4.	**TechnicalSpecifications:** Shaking Movement should be orbital	
	Orbital diameter should be at least 4 mm	
	Motor type shall be shaded pole motor	
	Permissible ON time shall be 100 % power of 30 mins	
	Speed range shall be from 0 – 2500 RPM	
	Run type shall be continuous or touch operation	
	Dimension shall	
	Tube adaptor shall have at holes for mixing tubes of 10mm diameter	
	Operation mode selection should be through bi-directional switch	
5.	**Accessories, spares and consumables**	
	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
6.	**Operating Environment:** The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions	

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	include Power Supply, Climate, Temperature, Humidity, etc.	
	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plug to meet purchaser's country requirements. The power cable must be minimum 3 meters long.	
7	**Certification:**	
	Must submit ISO 13485:2003/AC:2007 for Medical Devices AND	
	CE (93/42 EEC Directives) approved product certificate.	
8	**User Training:**	
	The Supplier shall conduct onsite user training for this equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users.	
9	**Warranty:**	
	Comprehensive warranty for 1 years after acceptance.	
10	**Maintenance Service During Warranty Period:**	
	During the warranty period supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.	
11	**Installation and Commissioning:**	
	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.	
12	**Documentation:**	
	User (Operating) manual in English.	
	Service (Technical / Maintenance) manual in English.	
	List of important spare parts and accessories with their part number and costing.	
	Certificate of calibration and inspection from factory.	

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V. Technical specification of Deep Freezer (-20°C)

S.N.	Purchaser's Specifications	Bidder's Offer			
	Laboratory Freezer (-20 ° C)	**Yes**	**No**	**Page No. in Catalogue**	**Remarks**
	Manufacturer:				
	Brand:				
	Type/Model:				
	Country of Origin:				
1	**Description of Function**				
1.1	Deep Freezers or Laboratory freezers are required to preserve blood and blood products, vaccines, plasma etc. at specified temperatures.				
2	**Operational Requirements**				
2.1	Microprocessor controlled frost-freeFreezer				
3	**System Configuration**				
3.1	Ultra Low Deep Freezer (-20 ^{0}C), Vertical type.				
4	**Technical Specifications**				
4.1	A microprocessor controlled upright -20 0C deep freezer				
4.2	Capacity: Approx 100 litres.				
4.3	Freezer construction:				
	Outer panels and interior panels shall be made of corrosion resistant material, preferably stainlesssteel.				
4.5	Door:				
	Locking door supplied with minimum two keys.				
4.6	Castors:				
	High quality lockable castors for easy mobility.				
4.7	Trays:				
	Adjustable trays/racks (preferably stainless steel) with perforated design.				
	(Bidder to indicate the number off tray/racksoffered.)				
4.8	Alarm:				
	Audio-visual high & low temperature, door open/lock alarm.				
4.9	To be supplied complete with:				
	Mains electric, voltage stabilizer unit. Unit is to stabilize power supply,along with UPS minimum 1 hour backup.				
5	**Accessories, spares and consumables**				

5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).				
6	**Operating Environment**				
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature,S.N. Purchaser's Specifications,Humidity, etc.				
6.2	Power supply: 220–240VAC, 50Hz fitted withappropriate plug type D round 3 pins. The power cable must be at least 3 metre inlength.				
7	**Standards and Safety Requirements**				
7.1	Must submit ISO 9001 or ISO 13485:2003/AC: 2007 AND				
7.2	CE or USFDA approved product certificate.				
8	**User Training**				
8.1	Must provide user training (including how to use and maintain the equipment).				
9	**Warranty**				
9.1	Comprehensive warranty for 1 year and extra 1 year free AMC.				
10	**Maintenance Service During Warranty Period**				
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.				
11	**Installation and Commissioning**				
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.				
12	**Documentation**				
12.1	User (Operating) manual in English and/or				
	Service (Technical / Maintenance) manual in English				
12.2	List of important spare parts and accessories with their part numbers and costing available in stock with the supplier.				

Bidder must completely fill the Technical Specification Form (TSF). Only Yes/no/all complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee.

Vi. Technical specification of Laboratory Freezer upright, Low (-80 °C)

S.N.	Purchaser's Specifications	Bidder's Offer
	Laboratory Freezer upright, Low (-80 ° C)	
	Manufacturer	
	Brand	
	Type/Model	
	Country of Origin	
1	**Description of Function**	
1.1	Deep Freezers or Laboratory freezers are required to preserve blood and blood products, vaccines, plasma etc. at specified temperatures.	
2	**Operational Requirements**	
2.1	Microprocessor controlled frost-freeFreezers,	
2.2	Separate chamber racks that can be pulled out for easy handling	
2.3	User friendly, non-CFC refrigerant	
3	**System Configuration**	
3.1	**Ultra Low Deep Freezer (-80 ^{0}C):** • CFC freerefrigerant • Microprocessor controlled • Alarmfacility	
4	**Technical Specifications**	
4.1	A microprocessor controlled upright -80 ^{0}C deep freezer.	
4.2	**Capacity**: approximately 200 litres or more.	
4.3	**Refrigeration system:** CFC-free refrigerant cooling system.	
4.4	**Freezer construction:** Outer panels and interior panels shall be made of corrosion resistant material, preferably stainless steel.	
4.5	**Door:** Foam sealed door system or vacuum insulated glass door.	
4.6	**Insulation:**High density polyurethane foam.	
4.7	**Castor or wheels:**High quality lockable castors or omni wheel for easy mobility.	
4.8	**Shelves:** 2 shelves must be available	
4.9	**Alarm:** Audio-visual high & low temperature, door open/lock alarm.	
4.10	**Condenser:** EBM condenser fan motor.	
5	**Accessories, spares and consumables**	
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
6	**Operating Environment**	

S.N.	Purchaser's Specifications	Bidder's Offer
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
6.2	Power supply: 220–240VAC, 50Hz fitted with appropriate plug type D round 3 pins. The power cable must be at least 3 metre in length.	
7	**Standards and Safety Requirements**	
7.1	Must submit ISO 9001 or ISO 13485:2003/AC: 2007 **AND**	
7.2	CE (93/42 EEC Directives) approved product certificate.	
8	**User Training**	
8.1	Must provide user training (including how to use and maintain the equipment).	
9	**Warranty**	
9.1	Comprehensive warranty for 1 years.	
10	**Maintenance Service During Warranty Period**	
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.	
11	**Installation and Commissioning**	
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.	
12	**Documentation**	
12.1	User (Operating) manual in English	
12.2	Service (Technical / Maintenance) manual in English	
12.3	List of important spare parts and accessories with their part numbers and costing available in stock with the supplier.	

NOTE:-Bidder must completely fill the Technical specification form(TSF). Only Yes/no/all complies should not be written. Page number in catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technicalcommittee.

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VII. Technical Specifications of Micropipette Single and multi channel

S. No.	Specification		Required Quantity	Bidder's Offer
	Manufacturer:			
	Country of Origin:			
	Model:			
	Brand:			
1	**Description of Function**			
	Laboratory Micro pipette to use for lab sampling preparation.			
2	**Operational Requirements**			
	Different size autoclavable micropipette			
3	**System Configuration**			
	Single channel micropipette 8 channel micropette			
4	Technical Specification			
4.1	**Single Channel Micro Pipette** • **Fullyautoclavable** • **Ergonomic design provides excellentoperating experience** • **Easy-to-read volume display** • **Easy calibration andmaintenance** • **provides excellent operatingexperience** • **Large display window allows for easyvolume identification** • **Easy calibration andmaintenance**			
4.1.1	**Micropipette**	• **SingleChannel** • **Capacity: 0.1**-2.5µl • **Increment:**0.5µl • **Inaccuracy%: At** 2.5 µl : 2.50, At 1.25 µl : 3.00, At 0.25 µl :12 • Variablevolumes, • fullyautoclavable,	**5**	
4.1.2	**Micropipette**	• **Single Channel** • **Capacity:** 0.5-10µl • **Increment:**0.01µl • **Inaccuracy%: At** 10 µl : 1.00, At 5 µl : 1.50, At 1µl :2.50 • Variablevolumes, • fullyautoclavable,	**5**	
4.1.3	**Micropipette**	• **Single Channel** • **Capacity:** 2-20µl • **Increment:**0.5µl • **Inaccuracy%:** At 20µl-0.90, At 10µl-1.20, At 2 µl-3.00 • Variablevolumes, • fullyautoclavable,	**5**	

4.1.4	Micropipette	• **SingleChannel** • **Capacity:** 10-100µl • **Increment:**0.1µl • **Inaccuracy:** At 100 µl ±0.80, At 50µl ±0.50, At 10 µl ±0.30 • Variablevolumes, • fullyautoclavable,	5	
4.1.5	Micropipette	• **Single Channel**	5	
		• **Capacity:** 20-200µl • **Increment:**0.1µl • **Inaccuracy%:** At 200 µl- 0.60, At 100µl-0.80, At 20µl-3.00 • Variablevolumes, • fullyautoclavable,		
4.1.6	Micropipette	• **Single Channel** • **Capacity:** 100-1000µl • **Increment:5**.0µl • **Inaccuracy%:** At 1000 µl- 0.60, At 500µl-0.70, At 100 µl-2.00 • Variablevolumes, • fullyautoclavable,	5	
4.2	**8 Channel Pipette** • **for 96 wellplates** • **Dispensing head rotates foreffortless** • **pipettingconvenience** • **Individual piston and tip coneassemblies** • **allowing easy repair andmaintenance** • **Compound material-made tip cone secures high sealing performance** • **Compatible with most universal tipbrands**			
4.2.1	Micropipette	• **Multi Channel (8channel)** • **Capacity:** 0.5-10µl • **Increment:**0.1µl • **Inaccuracy%:** At 10 µl- 1.50, At 5µl-2.50, At 1 µl-4.00 • Variablevolumes, • fullyautoclavable,	5	
4.2.2	Micropipette	• **Multi Channel (8channel)** • **Capacity: 5**-50µl • **Increment:**0.5µl • **Inaccuracy%:** At 50 µl- 1.00, At 25µl-1.50, At 5 µl-3.00 • Variablevolumes, • fullyautoclavable,	5	
5	**Accessories, spares and consumables**			
5.1	All standard accessories to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).			
6	**Operating Environment**			

6.1	The system offered must be designed to store and be operated normally under the condition of the purchaser's Country. The conditions include Power supply, Climate, temperature and relative humidity.		
7	**Standards and Safety Requirements**		
7.2	Must submit ISO and CE certificates		
8	**User Training**		
8.1	Must provide user training (including how to use and maintain the equipment).		
9	**Warranty**		
9.1	Comprehensive warranty for 1 years.		
10	**Maintenance Service during Warranty Period**		
10.1	During warranty period supplier must ensure corrective/breakdown maintenance whenever required.		
11	**Installation and Commissioning**		
11.1	The bidder must arrange for the equipment to be installed by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.		
12	**Documentation**		
12.1	User (Operating) manual in English		
12.2	Service (Technical / Maintenance) manual in English		
12.3	Certificate of calibration and inspection from factory.		

NOTE:-Bidder must completely fill the Technical specification form(TSF). Only Yes/no/all complies should not be written. Page number in catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technicalcommittee.

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Real Time RT-PCR Kits for SARS Cov-2

Ñame of ítem	Purchaser's Specifications	Bidder's Offer/ Statement of Compliance	Deviation if any	Page no. of catalogue/ datasheet/ manual
Purpose	**RT-PCR testing (COVID 19)**			
Description	Must target at least two genes (E, RdRP, N, ORF 1ab.) should include positive control and internal controlfor both targets, should be compatible with ABI 7500, Biorad (CFX 96) and rotorgeneplatforms The kit should include RT PCR enzyme and Buffer Sensitivity atleast 95%			
Other requirements	The manufacturer should be certified by WHO for emergency use			

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RNA extraction reagent for manual extraction

Item name	RNA extraction reagent for manual extraction	Bidder's Offer/ Statement of Compliance	Deviation if any	Page no. of catalogue/ datasheet/ manual
Purpose	RNA extraction from swab sample			
Description	Spin column based suitable for manual extraction of body fluid, oro and nasophayringeal swab, blood samples serum or plasma samples. **Sample input**: Up to 400 microliter **Elusion Volume**: More than 6 microliter **Purity**: High quality RNA ready for Real Time PCR Should not require healting step. Extraction steps should not take more tan twenty minutes. Should contain reagents for RNA binding, nonenzymatic lysis (washing and elusión)			
Other requirements	The manufacturer should be certified by WHO or USFDA or CE or should have been listed by USFDA/CDC or WHO for emergency use			

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Virus Transport Medium (VTM)

Item name	Virus Transport Medium (VTM)	Bidder's Offer/ Statement of Compliance	Deviation if any	Page no. of catalogue/ datasheet/ manual
Purpose	Swab collection (COVID 19)			
Tube Requirements	Suitably prepared sterile media for use in collecting throat and nasal swabs from human. Should contain virus inactivator, should stablized with RNA. Should be contained in airtight plastic tubes with cap. There must be sticker for labeling			
Media volume	1ml or 3ml			
Swab collection sticks	Along with the tubes there should be two swab sticks (one for oropharangeal swab and another for nasophyrangealswab). There should be provision of break lines to allow to feed into thecontainer. Both the sticks should have fiber acrylic swab. The stick for nasophyrangeal swab should be flexible enough for ease in collection of swab simple from nasopharynx. The tube and stick should have been blistered.			
Others	The item should be CE and USFDA approved.			

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Other Terms and Conditions of the Proposal:

(i) The supplier should submit document stating the stock evidence of required quantity or the evidence with purchase order of required quantity in given time frame.

(ii) The Supplier should submit ISO,CE or USFDA certificate as mention in Specification of required item.

(iii) The supplier should quote the price of package item and Municpality evaluates packagewise & award the lowest amount of package. Supplier shall quotes in more packages.

(iv) The supplier should supply the item according to municipality purchase order (partiall yor fully) as per municipality need. The quantity mention in Price Schedule will be increased or decreased as per municipality need.

(v) Municipality has right to fully/partially accept or decline the proposal submitted by the supplier.

(vi) Bids must be valid for a period of 90 days after the bid closing dedline. Bids may be accompanied by a bid security amount to a minimum of 2.5 percent of total amount or either in the form of bank voucher in the name of rastriya banijya bank limited gamgadhi mugu branch, dharauti account number 4060100303000002 or irrevocabale and unconditional bank gurentee issued by A class commercial bank with a minimum amount of 2.5 percent of total amount. The bid security shall be valid for a 30 days beyond the validity period of the bid.

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Form of Agreement

THIS AGREEMENT made thedayof.....20 between ***[name of Purchaser]*** (hereinafter called "the Purchaser") of the one part and ***[name of Supplier]*** of *[city and country of Supplier]* (hereinafter called "the Supplier") of the otherpart:

WHEREAS the Purchaser invited Priced Quotation for certain goods and ancillary services, viz., ***[brief description of goods and services]*** and has accepted a Price Quotation by the Supplier for the supply of those goods and services in the sum of ***[contract price in words and figures]*** (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

- In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
- The followingdocumentsshall bedeemedtofomand bereadandconstruedaspartof thisAgreement, viz.:
- Price Quotation Form and the Price Schedule submitted by theSupplier;
- The Schedule ofRequirements;
- The TechnicalSpecifications;
- The Conditions of Contractand
- The Purchaser's Notification ofAward.
- In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide thegoods and services and to remedy defects there in inconformity in all respects with the provisions of theContract.
- ThePurchaserherebycovenantstopaytheSupplierinconsiderationofthe provisionof thegoodsandservices and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by theContract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

On behalf of the Purchaser
Name:
Designation:
Sign:
Seal:

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On behalf of the Supplier
Name:
Designation:
Sign:
Seal: