## OFFICE OF THE REGISTRAR :: DIBRUGARH UNIVERSITY DIBRUGARH :: ASSAM PIN: 786 004



## **BID DOCUMENT**

#### FOR

NAME OF THE WORK: Supply, installation and commissioning of Equipments from the NMBP funded Project at Department of Life Sciences, Dibrugarh University.

TENDER No: DU/NIT-2022/File-VII/152 dated 04.11.2022

# **CUT-OUT SLIP**

NAME OF THE WORK: Supply, installation and commissioning of Equipments from the NMBP funded Project at Department of Life Sciences, Dibrugarh University..

#### TENDER No: DU/NIT-2022/File-VII/152 dated 04.11.2022

SUBMISSION DUE DATE & TIME : 25.11.2022 up-to 11.30 A.M.

FROM:

TO:

NAME: ADDRESS THE REGISTRAR DIBRUGARH UNIVERSIITY DIBRUGARH, ASSAM

(To be pasted on the outer envelope containing "Technical"& "Commercial" bids



## OFFICE OF THE REGISTRAR :: DIBRUGARH UNIVERSITY :: DIBRUGARH

No. DU/ NIT-2022/File-VII/152

Date: 04.11.2022

#### **Tender Notice**

Sealed Tenders are invited from reputed manufactures/authorized dealers/suppliers for **Supply, installation and commissioning of Equipments from the NMBP funded Project at Department of Life Sciences, Dibrugarh University..** Detailed specification of the items, terms & conditions etc are given at Part-B. Last date of submission of Tender with all relevant papers is **25.11.2022 up-to 11:30 A.M.** to be submitted at the Office of the Registrar, Dibrugarh University, Dibrugarh, Assam.

Availability of Bid papers	From 04.11.2022
Last date for receipt of Bid	25.11.2022 upto 11.30 A.M.
Time & Date of opening of Bid	25.11.2022 at 02:30 P.M.
Place of opening of Bid	Office of the Registrar, DU
Cost of Tender Document	1000/- Non refundable
EMD	Rs. 50,000.00

The tender should be submitted in two separate sealed envelopes i.e. **Part - I** TECHNICAL BID and **Part – II** FINANCIAL BID. The technical bid shall be opened on above mentioned date and time and the financial bid of only those bidders who qualify in technical bid shall be opened on the same date or at a later date which shall be intimated to the tenderer whose technical bid are found to be valid. Dibrugarh University reserves all the rights to reject any or all the tenders without assigning any reason thereof.

Sd/-**Registrar i/c** Dibrugarh University

#### Copy to:

- 1. The Chairperson, Tender Opening Committee, D.U. for information.
- 2. The Deputy Registrar (F&A) i/c, D.U. for information.
- 3. The Programmer, D.U., with a request to upload the NIT at D.U. website.
- 4. Office File

Sd/-Registrar i/c Dibrugarh University

#### PART A - TERMS AND CONDITIONS

#### **GENERAL INFORMATION**

The tender bids duly complete in all respects, along with the necessary documents should be submitted to the Registrar, Dibrugarh University, Assam. The Technical Bids so received, shall be opened on 25.11.2022 at 02:30 P.M. in the Office of the Registrar, Dibrugarh University in the presence of the representatives of the bidders. The Financial Bids of the Tenderers shall be opened on the same date or at a later date to be intimated to the Tenderers whose Technical Bids are found to be valid. Right to reject any or all Tenders, without assigning any reason thereof is reserved by Dibrugarh University.

#### Terms and Conditions of Supply:

1. All the manufacturers/ authorized dealers should also give a brief profile about their company and the facilities available with them of the quoted items. Their turnover and important firms/ Government Institutes/ P.S.U.s *etc.* to which they are supplying quoted items, should also be mentioned.

2. The last date and time for the submission of the bids is 25.11.2022 up-to 11:30 A.M.

3. Suppliers shall submit the following documents along with their quotations:

- i) VAT/TIN/GST Registration No.
- ii) Technical specifications offered by the Supplier.
- iii) The bidder must submit a detailed compliance statement clearly mentioning compliance with the specifications mentioned in the NIT document and deviation if any.
- iv) Technical literature regarding the offered products including pictures/sketch/diagrams etc.

4. The rates should be mentioned in the **FINANCIAL BID** attached with the Tender Document as **ANNEXURE-II**. Each page of the tender shall be signed in full and stamped with the seal by the supplier. The supplier must clearly state in what capacity he/she is signing the Tender.

5. The supplier shall submit the tender in 02 (two) envelopes. The first envelope (Technical Bid) shall contain all the following documents and be sealed.

- Filled in Format Technical Specifications/Literature
- Valid copy of Trade License,
- PAN Card,
- Registration certificate of GST,
- Dealership/Manufacturing/Small Scale Industry (SSI) Certificate (if any)
- The cost of tender of Rs. 1000/- (Rupees one thousand) only which is non-refundable, along with the Earnest Money of Rs. 50,000.00 (Rupees fifty
- thousand) only in the form of Demand Draft/Bankers Cheque in favour of the Registrar, Dibrugarh University, Assam payable at Dibrugarh University.
- The Firm(s) who are registered with MSME, National Small Industries Corporation (NSIC) /OR Small Scale Industries (SSI) are exempted to submit the Tender Cost/EMD. However, a copy of registration must be provided along with Technical Bid.

6. Supplier should read carefully all the instructions and terms and conditions, etc before registering rates in prescribed schedule of the tender. Taxes and duties etc. should be shown separately.

7. The Technical Documents shall be opened, at *02:30 P.M. on 25.11.2022* or on the next working day if the offices of the University remain closed due to any reason.

8. Technical specifications of the instruments/equipments are given in Annexure to these papers (Part B).

9. The delivery and installation should be completed within 1 month or as specified from placing of the order. No extension shall be granted to the contractors/suppliers for the period of delivery, under any circumstances.

10. If the supplier fails to deliver the article as per the delivery schedule, the University shall be free to procure the balance/undelivered supply, at the risk and cost of the supplier, from other such suppliers.

11. The goods, articles, materials supplied by the supplier shall be accepted after inspection by an officer authorized by the competent authority. No articles/materials which do not conform to the specifications laid down in the terms and conditions or damaged in transit shall be accepted.

12. The bills of the suppliers shall be paid by the University after all the materials/articles/equipments have been received and installed, inspected as above.

13. Vendor must submit Compliance statement in tabular form comparing each specification of the quoted item with that given in the Tender Document **Annexure III**.

14. The tendering firm must provide proof of documents for executing similar works earlier.

15. In the event of any breach of the terms and conditions of the supply, the University may terminate the contract placed with the supplier and forfeit the security deposit of the supplier.

16. Whether OEM or Authorized Distributor/ Dealer a letter or a valid certificate of authorization of manufacturer shall be enclosed.

17. Copy of product literature and catalogue, testing report, BEE rating, ISO etc.

18. The quantity as mentioned at Part-B (Specifications) may be increased or decreased at the time of placing Order as per requirement.

19. Tenderers are advised to study all technical and commercial aspects, instructions, forms, terms and specifications carefully in the tender document. Failure to furnish all information required in the Tender Document or submission of a bid not substantially responsive to the Tender document in every respect will be at the tenderer's risk and may result in the rejection of the bid.

20. This tender document is not transferable.

#### Note:

(a) Tenderers are advised to read carefully the Terms and Conditions of supply before recording the rates in this Schedule.

(b) No erasures or overwriting shall be allowed, unless they are authenticated under the full signature and the seal of the tenderer.

(c) The University reserves the right to:

- (i) Accept/reject any/all tenders without assigning any reason thereof.
- (ii) Revise the quantities at the time of placing the order without change in the rate quoted by the bidder.
- (iii) Add/modify/relax or waive any of the conditions stipulated in the tender document whenever deemed necessary
- (iv) Award the contract to one or more tenderers for the items covered by the tender.

ITEM No	DESCRIPTION OF GOODS WITH DETAILS OF SPECIFICATIONS	Unit Price	Taxes	Qty.	Total Amount
1					
2					
3					

Signature of the Tenderer Seal of the Firm

# Supply, installation and commissioning of Equipments from the NMBP funded Project at Department of Life Sciences, Dibrugarh University.

SI No.	Item	Quantity
1.	Name: Fluorometer	01 no.
	Specifications:	
	i. Should be a small benchtop micro-volume fluorometer for	
	quantification of DNA, oligonucleotides, RNA, Proteins	
	ii. Should be an ideal system for measuring accurate concentrations of	
	nucleic acids for downstream applications viz. qRT-PCR,	
	microarray, NGS	
	iii. Minimum sample volume should be 1 $\mu$ L	
	iv. Pre-saved programs for quantification of dsDNA, oligonucleotides,	
	RNA, microRNA, RNA integrity & quality (intact vs degraded	
	RNA), protein etc.	
	v. System should have limit of detection for dsDNA 0.5 ng/mL to 5	
	μg/mL	
	vi. System should have a reagent calculator that quickly generates	
	working solution calculations	
	vii. Light Sources - Blue LED (470 nm) and Red LED (635 nm) along	
	with suitable excitation and emission filter sets	
	viii. Detectors - Photodiodes with a measurement capability of 300-	
	1000 nm	
	ix. Dynamic range should be 5 orders of magnitude	
	x. Measurement time should not exceed 5 sec/per sample	
	xi. Should include the assay tubes and kits for quantitative analysis of	
	dsDNA, RNA, RNA- Integrity and Quality (RNA IQ), Protein	
	xii. Should include USB drive to export data from the system and wifi	
	enabled.	
	xiii. Should be stand-alone system with intuitive touch screen color	
	display for operation	
	xiv. Should be provided with three-year warranty from the date of	
	installation	
2.	Name: Laboratory Water Purification System	1 no.
	Specifications:	
	i. System should be quoted along the external Pre-treatment and	
	External RO to handle the silica free applications.	
	ii. System should be standalone single/separate stage system- produce	
	Endotoxin and bacteria free ultrapure water Type 1 and Type 2	
	directly from potable water supply.	
	111. System should be capable of providing ASTM Type I (18.2 Mega	
	ohm resistivity )Water and have the UF cartridge to cater	
	Biological applications	
	iv. System should be capable of providing ASTM Type II (1-10 Mega	
	ohm resistivity )Water from potable tap water	
	v. System has feed water acceptance level of Conductivity upto 1500	
	$\mu$ S/cm or more, Fouling Index (SDI) > 3 and Total Chlorine less	
	unan U.1 ppm or more	
	vi. System should have a pretreatment kit with 1µm filter, Harness	
	Stabilizer and Cardon	
	vii. System should have KO Flow rate SLIF/hour or more	
	vini. Type I water now rate should be equal or more than TLtr/Minute	
	ix. Reverse Osmosis module should be made up of thin film composite	

	x. xi. xii. xiii. xiv. xv. xv. xvi.	<ul> <li>polyamide RO membrane with rejection rate of 94 - 99%</li> <li>System has feed water specific Purification pack before UV lamp consisting of mixed bed ion exchange resin/ micro filter / activated carbon to ensure better purification and longer life of the cartridges.</li> <li>UF should be inbuilt/point of use in system for providing molecular biology grade water</li> <li>System should have dual wavelength 185/254 nm for UV-oxidation for reducing the content of microorganisms and their metabolites to ensure the quality of Type 1 water</li> <li>System should have external/inbuilt reservoir 5ltr or more in volume. Water is recirculated through High Purity</li> <li>Cartridge to maintain purity of Type 2 water in tank all the time.</li> <li>Production rate of Purified Water @ 3 ltrs/hr or more</li> <li>System should be quoted with One set of Consumables including RO.</li> <li>Should have company warranty</li> </ul>	
3.	Name:	Real Time PCR System	1 no.
	Specifi	cations:	
	The sys	stem should be an automated & integrated system for both real-time	
	PCR an	nd post-PCR (end-point) analysis with following features:	
	i.	The excitation source should be LED/Laser and the detection	
		system should be simultaneous and scan-free for all wells CMOS	
		detection.	
	11.	The system should have temperature range of $37^{\circ}$ C - $98^{\circ}$ C to	
		tacilitate all qPCR applications.	
	111.	The system should have peak block ramp rate for exceeding $6.5\%$ (second or more should have to support of the system)	
		0.5 C/second or more, should have temperature uniformity of $0.4$ °C	
	1.17	U.4 U. The system should have 06 well semple block made up of at least	
	1V.	he system should have 90-well sample block, made up of at least	
		temperature difference that can be programmed across the block is	
		25°C. The maximum difference in temperature allowed between	
		adjacent blocks is 5°C.	
	v.	System should support reaction volume minimum of $10 - 100$ uL in	
		0.2ml tube and have more than 5 or 6 color multiplexing without	
		passive reference dye in a single reaction tube.	
	vi.	The system should have 6 excitation and emission filter sets to	
		enable collection of up to 21 unique combinations of wavelengths	
		during a single run for multiplexing on the 96-well block	
		instrument.6 x 6 filters for 21 combinations. New custom dyes can	
		be calibrated with 10-min protocol. System should do 6 different	
		samples simultaneously in a single tube	
	V11.	The system should have preferably interactive Touch Screen LCD	
		Teature.	
	V111.	rasi-ruk in less than 50 minutes should be an integral feature of	
	iv	System should be canable of generating MIOE compliant PDM	
	17.	formatted data along with integrated tools to assist with 21 CFR	
		Part 11 compliance.	
	x.	The instrument should have software that can analyze multiple	
		perspectives in the Multiple Plots view, with side-by-side views of	
		all data aspects including the amplification plots, standard curve,	
		multicomponent data plots, and raw data. The system should give	
		heat map of the amplification & analyzed data. Software should	
		have PCR efficiency factor correction for gene quantification.	

	vi	The system should come along with software to support	
	лі.	applications including absolute quantitation Relative quantitation	
		multiplay DCD allelie discrimination (SND) melt curve analysis as	
		multiplex-PCK, anene discrimination (SNP), men curve analysis as	
		well as pathogen detection, plus/minus assay using internal positive	
		control & mutation screening. The system should have software	
		available freely on cloud for easy access. System should be	
		supported with remote services, cloud connectivity online	
		monitoring, and external barcode using USB, etc.	
	xii.	The system should be completely open system to support all the	
		Real Time PCR chemistry like TaqMan, SYBR Green, Simple &	
		Hydrolysis Probes, and Molecular Beacons etc.	
	xiii.	The system should be open system with flexibility to use micro	
		well plates, individual tubes, and 8-tube strips.	
	xiv.	System should be sensitive to detect even 1 copy and differences in	
		target quantity as small as 1.5-fold in single plex reactions, also	
		should have 10 logs of linear dynamic range.	
	XV.	The system should allow pause function of a run-in progress and	
		during pause user can open or close the block and the system	
		should provide cloud based secure storage of more than 50 GB	
		analyze and share data	
	xvi	System should come with warranty	
	xvii	Should be provided with 2 KVA LIPS with minimum 45 mins	
	ΛνΠ.	hackup branded desktop for data analysis with window-based	
		software package	
	vviii	The quoted system must have full license for PCR process and	
	Λ ν ΠΙ.	attach a list of minimum 30 installations	
	xix	Vendor is required to give the demo during the technical evaluation	
	AIA.	if needed	
4	Name:	Electronic ninette	
т.	Specifi	ications:	
	i	Volume metric: $1 - 10  \mu I$	
	ii	Increments: 0.01 µL	
	11. 111	Should have programmable option	
	iv	Compatible tips: 10, 20, 50 micro	
5	Name <sup>.</sup>	Balance	
5.	Specifi	ications.	
	i	Capacity minimum up to: 220 g	
	ii	Readability: $0.1 \text{ mg} [0.0001 \text{g}]$	
	iii	L inearity: $+0.2 \text{ mg}$	
	iv	Tare Range: Full Canacity $[-220 \sigma]$	
	v	Repeatability: $+ 0.1 \text{ mg}$	
	v. Vi	Pan Size: 100 mm Dia	
	vii	Minimum weight $(I-1\% k-2)$ : 14 mg	
	viii	Minimum weight $(USP)$ : 140 mg	
	iv	Sensitivity Drift: $1 \times 10^{-6}$ C x Rt or $1 \text{ nnm/°C}$	
	ил. х	Eccentricity Deviation(test load 100 gm ): 0.12 mg	
	vi	Draft Shield: Manual Draft Shield	
	vii	Weighing Unit: G kg ct lb oz ozt tlb tls tlt Gn dwt mg /lb	
	лп.	tle mom k tol bat and MS	
	viii	Weighing Mode : Weighing Parts Counting Check	
	лш.	weighing Percent Weighing Dosing Peak hold Statistics	
		Animal Weighing Density under book weighing Autotest	
		totalizing Newton Unit Massurement	
	VIV	Calibration: Internal [automatic]	
		Stabilization Time: 2 Seconds	
	AV.	Working Tomporature: 10 to 140 °C	
	AVI.	WORKING TEMPERATURE. $\pm 10.00 \pm 40^{\circ}$ C Power Supply: 110 to 230 V AC / 50 to 60 $\Xi$	
	AVII. VViii	Display: I CD with Back Light	
1	/ <b>1 V III</b> .	Lisping, LOD with Durk Light	

	xix.	Special Features:	
	XX.	Databases: 10 users, 1,000 Products, 1,000,000 weighing records	
		can be stored in memory.	
	xxi.	Inter face: $2 \times RS$ 232, USB-A, USB-B	
	xxii.	Draft Shield: 3 Side removable Glass draft shields	
	xxiii.	GLP/GMP complies: Yes GLP/GMP Complies	
6.	Name:	Mirrorless camera	1 no.
	Specifi	ications:	
	1. 	Full frame picture angle	
	11. 	Sensor size minimum: 35.9 mm x 23.9 mm	
	111. :	Sensor type: CMOS	
	IV.	Dual card slot	
	v.	File format: PAW and IPEC	
	vi. vii	Must have every sensor to automatically switch between monitor	
	V 11.	and viewfinder displays	
	viii	Should have depth of field control	
	ix.	Continuous shooting: Low-speed continuous: 1-5 fps High-speed	
		continuous: 5.5 fps High-speed continuous (extended): 14 fps (14-	
		bit RAW: Approx. 10 fps)	
	х.	Shutter speed: 9000 sec. to 1/8000 sec.	
	xi.	Exposure: TTL metering, auto Programmed auto with flexible	
		program (P), Shutter-priority auto (S), Aperture-priority auto	
		(A), Manual (M), and 3 user-defined settings	
	xii.	ISO Sensitivity: Auto ISO sensitivity control; ISO 100 -	
		51,200 in steps of $1/3$ or $1/2$ EV should have options to set to	
		approx. 0.3, 0.5, 0.7 or 1 EV (ISO 50 equivalent) below ISO 100 or	
		to approx. 0.3, 0.5, 0.7, 1 or 2 EV (ISO 204,800 equivalent) above	
		ISO 51,200	
	X111.	Focus point: 2/3 (single-point AF)	
	X1V.	Movie options: Minimum 4K UHD $3,840x2,160 / 30$ Ips 4K	
		UFID 5,840X2,100 / 25 Ips 4K UFID 5,840X2,100 / 24 Ips Full HD 1 020x1 080 / 120 fpc Eull HD 1 020x1 080 / 100 fpc Eull	
		HD 1.920x1.080 / 120 lps Full HD 1.920x1.080 / 100 lps Full HD 1.920x1.080 / 60 fps Full HD 1.920x1.080 / 50 fps Full	
		HD 1.920x1,080 / 30 fps Full HD 1.920x1,080 / 30 fps Full	
		HD 1.920x1.080 / 24 fns Full HD 1.920x1.080 slow-mo / 30	
		fps x4 Full HD 1.920x1.080 slow-mo / 25 fps x4 Full HD	
		1.920x1.080 slow-mo / 24 fps x5	
	XV.	Monitor size 8-cm (3.2-in.) with approx. 2100k dot	
	xvi.	Connectivity: USB Type C (Super speed), Type C HDMI	
		connector Accessory terminal, Stereo mini-pin jack for audio	
		in and out, Wi-fi connectivity, bluetooth and GPS	
	xvii.	Battery should be capable of capturing minimum 400 shots, and	
		minimum 450 shots in energy saving mode	
	xviii.	Should have tripod socket, strap, battery charger, and standard	
		company warranty	
	Preferr	red Brand: Nikon, Cannon or equivalent	4
7.	Name:	Lens for item no. (6)	l no.
	specini	Equal longth: 16.50 mm	
	1. ii	A perture range: $f/16$ to $f/3$ 5-6 3	
	11. 111	Should have dual detect ontical Vibration reduction lens shift	
	111.	using voice coil motors	
	iv.	Should have Autofocus option	
	v.	Standard company warranty	
	Preferr	ed Brand: Same Brand as Camera	

8.	Name: Macro-lens for item no. (6)	1 no.				
	Specifications:					
	i. Focal length: 105 mm					
	ii. Minimum focus distance: 0.29 m					
	iii. Aperture range: f/32 to f/2.8					
	iv. Full frame format					
	v. Both autofocus and manual modes					
	vi. Standard company warranty					
	Preferred Brand: Same Brand as Camera					
9.	Name: Flash for item no. (6)	1 no.				
	Specifications:					
	The light distribution angle should be automatically adjusted to the					
	camera's image area in both FX and DX formats. Standard Even Center-					
	weighted					
	Preferred Brand: Same Brand as Camera					

**N.B.**: Firm(s) MUST provide a compliance statement vis-à-vis specifications in a "tabular form" clearly stating the compliance and giving justification, if any supported by technical literature with clear reference of page number, paragraph or lines. This statement must be signed, with the company seal, by the Tendered for its authenticity and acceptance that any incorrect or ambiguous information found submitted will result in disqualification of the Tender.

Signatur	e:	 					
Name	:	 					
Address	5 :	 	••••	•••••			
•••••		 	••••		• • • • • • • •	• • • • • • • • •	
		 	••••		• • • • • • • •	• • • • • • • • •	
Mobile 1	No	 					

Date.....

#### **ANNEXURE-II**

The Registrar
Dibrugarh University
Dibrugarh

Ref: NIT no. .....dated.....dated.

Sir,

In reference to the NIT cited above, the undersigned would like to submit the Financial Bid as per the unit price, taxes, quantity *etc*.

Item No.	DESCRIPTION OF GOODS WITH DETAILS OF SPECIFICATIONS	Qty.	Per Unit Price (INR)	GST (INR)	Total Amount (INR)
01	Fluorometer	01			
02	Laboratory Water Purification System	01			
03	Real Time PCR System	01			
04	Electronic pipette	01			
05	Balance	01			
06	Mirrorless camera	01			
07	Lens for item no. (6)	01			
08	Macro-lens for item no. (6)	01			
09	Flash for item no. (6)	01			

This is for your kind perusal and acceptance please.

Signature Seal

Date:

Place:

То

Annexure III

# **COMPLIANCE SHEET**

# Supply, installation and commissioning of Equipments from the NMBP funded Project at Department of Life Sciences, Dibrugarh University.

SI No.	Item		Compliance (Complied / Not Complied)
1.	Name:	Fluorometer	(complica / Not complica)
	Specif	ications:	
	XV.	Should be a small benchtop micro-volume fluorometer for	
		quantification of DNA, oligonucleotides, RNA, Proteins	
	xvi.	Should be an ideal system for measuring accurate concentrations of	
		nucleic acids for downstream applications viz. qRT-PCR.	
		microarray, NGS	
	xvii.	Minimum sample volume should be 1 µL	
	xviii.	Pre-saved programs for quantification of dsDNA, oligonucleotides.	
		RNA, microRNA, RNA integrity & quality (intact vs degraded	
		RNA), protein etc.	
	xix.	System should have limit of detection for dsDNA 0.5 ng/mL to 5	
		µg/mL	
	XX.	System should have a reagent calculator that quickly generates	
		working solution calculations	
	xxi.	Light Sources - Blue LED (470 nm) and Red LED (635 nm) along	
		with suitable excitation and emission filter sets	
	xxii.	Detectors - Photodiodes with a measurement capability of 300-	
		1000 nm	
	xxiii.	Dynamic range should be 5 orders of magnitude	
	xxiv.	Measurement time should not exceed 5 sec/per sample	
	XXV.	Should include the assay tubes and kits for quantitative analysis of	
		dsDNA, RNA, RNA- Integrity and Quality (RNA IQ), Protein	
	xxvi.	Should include USB drive to export data from the system and wifi	
		enabled.	
	XXVII.	Should be stand-alone system with intuitive touch screen color	
		display for operation	
	XV111.	Should be provided with three-year warranty from the date of	
	NT	Installation	
2.	Name:	Laboratory water Purification System	
	Specifi	Callons:	
	XV11.	System should be quoted along the external Pre-treatment and	
	¥ 1/11	External RO to handle the sinca free applications.	
	XVIII.	Endetoxin and bactoria free ultrapure water Type 1 and Type 2	
		directly from potable water supply	
	viv	System should be capable of providing ASTM Type I (18.2 Maga	
	ліл.	ohm resistivity.) Water and have the LIE cartridge to cater	
		Biological applications	
	vv	System should be capable of providing ASTM Type II (1-10 Mega	
	лл.	ohm resistivity )Water from notable tan water	
	xxi	System has feed water acceptance level of Conductivity upto 1500	
	AAI.	$\mu$ S/cm or more. Fouling Index (SDI) > 3 and Total Chlorine less	
		than 0.1 ppm or more	
	xxii	System should have a pretreatment kit with 1µm filter Harness	
		Stabilizer and Carbon	
	xxiii.	System should have RO Flow rate 3Ltr/hour or more	
	xxiv.	Type 1 water flow rate should be equal or more than 1Ltr/Minute	

	xxv. Reverse Osmosis module should be made up of thin film composi	te
	polyamide RO membrane with rejection rate of 94 - 99%	
X	xxvi. System has feed water specific Purification pack before UV lamp	
	consisting of mixed bed ion exchange resin/ micro filter / activate	ed
	carbon to ensure better purification and longer life of the	
	cartridges.	
X	xvii. UF should be inbuilt/point of use in system for providing	
	molecular biology grade water	
KX	kviii. System should have dual wavelength 185/254 nm for UV-	
	oxidation for reducing the content of microorganisms and	
	their metabolites to ensure the quality of Type I water	
X	xxix. System should have external/inbuilt reservoir 5ltr or more	
	in volume. water is recirculated through High Purity	
	Cartriage to maintain purity of Type 2 water in tank all	
	une time.	
	xxx. Production rate of Purmed water @ 5 firs/fill of more	
X	xxxi. System should be quoted with One set of Consumables including	
v	NO. xvii Should have company warranty	
Δ.	xxii. Should have company warranty	
3.	Name: Real Time PCR System	
	Specifications:	
	The system should be an automated & integrated system for both real-tir	ne
1	PCR and post-PCR (end-point) analysis with following features:	
	xx. The excitation source should be LED/Laser and the detection	on
	system should be simultaneous and scan-free for all wells CMC	DS
	detection.	
1	xxi. The system should have temperature range of 37°C - 98°C	to
	facilitate all qPCR applications.	
Х	xxii. The system should have peak block ramp rate for exceeding	ng
	6.5°C/second or more, should have temperature uniformity	of
	$0.4^{\circ}\mathrm{C}$	
X	xiii. The system should have 96-well sample block, made up of at lea	ast
	to separate independently Penter-controlled blocks. The maximu	in
	$25^{\circ}$ C. The maximum difference in temperature allowed betwee	15 en
	adjacent blocks is $5^{\circ}$ C	
×.	xiv System should support reaction volume minimum of $10 - 100 \text{ uJ}$	in
A	0.2ml tube and have more than 5 or 6 color multiplexing with	nit l
	passive reference dye in a single reaction tube.	
x	xxy. The system should have 6 excitation and emission filter sets	to
	enable collection of up to 21 unique combinations of wavelengt	hs
	during a single run for multiplexing on the 96-well blo	ck
	instrument.6 x 6 filters for 21 combinations. New custom dyes c	an
	be calibrated with 10-min protocol. System should do 6 differe	ent
	samples simultaneously in a single tube	
X	xvi. The system should have preferably interactive Touch Screen LC	CD
	feature.	
KX	xvii. Fast-PCR in less than 30 minutes should be an integral feature	of
	the system.	~
X	viii. System should be capable of generating MIQE compliant RDM	
	tormatted data along with integrated tools to assist with 21 CF	'K
	Part II compliance.	,
X	xix. The instrument should have software that can analyze multip	
	perspectives in the Multiple Plots view, with side-by-side views	
	all data aspects including the amplification plots, standard curv	
	host man of the amplification k analyzed data. Software should gi	
	neat map of the amprincation & analyzed data. Software shou	lu

		have PCR efficiency factor correction for gene quantification.	
	XXX.	The system should come along with software to support	
		applications including absolute quantitation, Relative quantitation,	
		multiplex-PCR, allelic discrimination (SNP), melt curve analysis as	
		well as pathogen detection, plus/minus assay using internal positive	
		control & mutation screening. The system should have software	
		available freely on cloud for easy access. System should be	
		supported with remote services, cloud connectivity online	
	vvvi	The system should be completely open system to support all the	
	<b>AAAI</b> .	Real Time PCR chemistry like TagMan SVBR Green Simple $\&$	
		Hydrolysis Probes and Molecular Beacons etc	
	xxxii.	The system should be open system with flexibility to use micro	
		well plates, individual tubes, and 8-tube strips.	
	xxiii.	System should be sensitive to detect even 1 copy and differences in	
		target quantity as small as 1.5-fold in single plex reactions, also	
		should have 10 logs of linear dynamic range.	
	xxiv.	The system should allow pause function of a run-in progress and	
		during pause user can open or close the block and the system	
		should provide cloud based secure storage of more than 50 GB,	
		analyze, and share data.	
	XXXV.	System should come with warranty.	
	XXVI.	backup branded desktop for data analysis with window based	
		software package	
	xxvii.	The quoted system must have full license for PCR process and	
		attach a list of minimum 30 installations.	
	xviii.	Vendor is required to give the demo during the technical evaluation	
		if needed	
		n needed.	
4.	Name	Electronic pipette	
4.	Name: Specif	Electronic pipette ications:	
4.	Name: Specif v.	<b>Electronic pipette</b> ications: Volume metric: $1 - 10 \ \mu L$	
4.	Name: Specif v. vi.	E Electronic pipette ications: Volume metric: $1 - 10 \ \mu L$ Increments: $0.01 \ \mu L$	
4.	Name: Specif v. vi. vii.	<b>Electronic pipette</b> ications: Volume metric: $1 - 10 \ \mu L$ Increments: 0.01 $\ \mu L$ Should have programmable option	
4.	Name: Specif v. vi. vii. vii.	<b>Electronic pipette</b> ications: Volume metric: $1 - 10 \ \mu L$ Increments: 0.01 $\ \mu L$ Should have programmable option Compatible tips: 10, 20, 50 micro	
4.	Name: Specif v. vi. vii. vii. vii. Specif	E Electronic pipette ications: Volume metric: 1 – 10 μL Increments: 0.01 μL Should have programmable option Compatible tips: 10, 20, 50 micro : Balance ications:	
4.	Name: Specif v. vi. vii. viii. <b>Name</b> Specif xxiv.	<b>Electronic pipette</b> ications: Volume metric: $1 - 10 \ \mu L$ Increments: 0.01 $\ \mu L$ Should have programmable option Compatible tips: 10, 20, 50 micro <b>: Balance</b> ications: Capacity minimum up to: 220 g	
4.	Name: Specif v. vi. vii. viii. <b>Name</b> Specif xxiv. xxv.	<b>Electronic pipette</b> ications: Volume metric: $1 - 10 \ \mu L$ Increments: 0.01 $\ \mu L$ Should have programmable option Compatible tips: 10, 20, 50 micro <b>: Balance</b> ications: Capacity minimum up to: 220 g Readability: 0.1 mg [0.0001g]	
4.	Name: Specif v. vii. viii. viii. <b>Name</b> Specif xxiv. xxv. xxv.	Electronic pipette ications: Volume metric: $1 - 10 \ \mu L$ Increments: $0.01 \ \mu L$ Should have programmable option Compatible tips: $10, 20, 50 \ micro$ : Balance ications: Capacity minimum up to: $220 \ g$ Readability: $0.1 \ mg \ [0.0001g]$ Linearity: $\pm 0.2 \ mg$	
4.	Name: Specif v. vi. vii. viii. <b>Name</b> Specif xxiv. xxv. xxv. xxvi. cxvii.	<b>Electronic pipette</b> ications: Volume metric: $1 - 10 \ \mu L$ Increments: $0.01 \ \mu L$ Should have programmable option Compatible tips: $10, 20, 50 \ micro$ <b>: Balance</b> ications: Capacity minimum up to: $220 \ g$ Readability: $0.1 \ mg \ [0.0001g]$ Linearity: $\pm 0.2 \ mg$ Tare Range: Full Capacity [-220 g]	
4.	Name: Specif v. vi. vii. viii. <b>Name</b> Specif xxiv. xxv. xxv. xxvi. xxvi. xvii.	<b>Electronic pipette</b> ications: Volume metric: $1 - 10 \ \mu L$ Increments: 0.01 $\ \mu L$ Should have programmable option Compatible tips: 10, 20, 50 micro <b>: Balance</b> ications: Capacity minimum up to: 220 g Readability: 0.1 mg [0.0001g] Linearity: $\pm 0.2$ mg Tare Range: Full Capacity [-220 g] Repeatability: $\pm 0.1$ mg	
4.	Name: Specif v. vii. viii. viii. <b>Name</b> Specif xxiv. xxv. xxv. xxvi. xxvi. xxvi. xxii.	<b>Example 1</b> For the field of the factor of	
4.	Name: Specif v. vi. vii. viii. <b>Name</b> Specif xxiv. xxv. xxv. xxvi. xxvi. xxvi. xxii. xxii.	<b>Electronic pipette</b> ications: Volume metric: $1 - 10 \ \mu L$ Increments: $0.01 \ \mu L$ Should have programmable option Compatible tips: $10, 20, 50 \ micro$ <b>: Balance</b> ications: Capacity minimum up to: 220 g Readability: $0.1 \ mg \ [0.0001g]$ Linearity: $\pm 0.2 \ mg$ Tare Range: Full Capacity [-220 g] Repeatability: $\pm 0.1 \ mg$ Pan Size: 100 mm Dia. Minimum weight (U=1%, k=2): 14 mg	
4.	Name: Specif v. vi. vii. viii. <b>Name</b> Specif xxiv. xxv. xxv. xxvi. xxvi. xvii. xvii. xxii. xxii.	<b>Electronic pipette</b> ications: Volume metric: $1 - 10 \ \mu L$ Increments: 0.01 $\mu L$ Should have programmable option Compatible tips: 10, 20, 50 micro <b>: Balance</b> ications: Capacity minimum up to: 220 g Readability: 0.1 mg [0.0001g] Linearity: $\pm 0.2 \ mg$ Tare Range: Full Capacity [-220 g] Repeatability: $\pm 0.1 \ mg$ Pan Size: 100 mm Dia. Minimum weight (U=1%, k=2): 14 mg Minimum weight (USP) : 140 mg	
4.	Name: Specif v. vii. viii. viii. <b>Name</b> Specif xxiv. xxv. xxv. xxvi. xxvi. xxvi. xxii. xxii. xxix. xxx. xx	<b>Example 1</b> Electronic pipette ications: Volume metric: $1 - 10 \ \mu L$ Increments: $0.01 \ \mu L$ Should have programmable option Compatible tips: $10, 20, 50 \ micro$ <b>: Balance</b> ications: Capacity minimum up to: $220 \ g$ Readability: $0.1 \ mg \ [0.0001g]$ Linearity: $\pm 0.2 \ mg$ Tare Range: Full Capacity [-220 g] Repeatability: $\pm 0.1 \ mg$ Pan Size: $100 \ mm$ Dia. Minimum weight (U=1%, k=2): $14 \ mg$ Minimum weight (USP) : $140 \ mg$ Sensitivity Drift: $1 \times 10^{-6}$ , °C x Rt. or $1 \ ppm/^{\circ}$ C Eccentricity: Daviation (text load 100 \ cm .): $0.12 \ mg$	
4.	Name: Specif v. vi. vii. viii. <b>Name</b> Specif xxiv. xxv. xxv. xxvi. xxvi. xxvi. xxii. xxii. xxxi. xxxi. xxxi. xxxi. xxxi. xxxi. xxii.	<b>Electronic pipette</b> ications: Volume metric: $1 - 10 \ \mu$ L Increments: 0.01 $\mu$ L Should have programmable option Compatible tips: 10, 20, 50 micro <b>: Balance</b> ications: Capacity minimum up to: 220 g Readability: 0.1 mg [0.0001g] Linearity: $\pm 0.2 \ mg$ Tare Range: Full Capacity [-220 g] Repeatability: $\pm 0.1 \ mg$ Pan Size: 100 mm Dia. Minimum weight (U=1%, k=2): 14 mg Minimum weight (USP) : 140 mg Sensitivity Drift: $1 \times 10^{-6}$ /°C x Rt. or 1 ppm/°C Eccentricity Deviation(test load 100 gm.,): 0.12 mg Draft Shield: Manual Draft Shield	
4.	Name: Specif v. vi. vii. viii. <b>Name</b> Specif xxiv. xxv. xxv. xxvi. xxvi. xxvi. xxvi. xxii. xxii. xxii. xxii. xxx. xxx	<b>Electronic pipette</b> ications: Volume metric: $1 - 10 \ \mu$ L Increments: 0.01 $\mu$ L Should have programmable option Compatible tips: 10, 20, 50 micro <b>: Balance</b> ications: Capacity minimum up to: 220 g Readability: 0.1 mg [0.0001g] Linearity: $\pm 0.2$ mg Tare Range: Full Capacity [-220 g] Repeatability: $\pm 0.1$ mg Pan Size: 100 mm Dia. Minimum weight (U=1%, k=2): 14 mg Minimum weight (USP) : 140 mg Sensitivity Drift: $1x10^{-6}$ °C x Rt. or 1 ppm/°C Eccentricity Deviation(test load 100 gm.,): 0.12 mg Draft Shield: Manual Draft Shield Weighing Unit: G kg ct lb oz ozt tlb tls tlt Gn dwt mg /lb	
4.	Name: Specif v. vii. viii. Name Specif xxiv. xxv. xxvi. xxvi. xxvi. xxvi. xxii. xxii. xxix. xxxi. xxxi. xxxi. xxxi. xxxi. xxxi. xxxi. xxxi. xxxi. xxxi.	Electronic pipette ications: Volume metric: $1 - 10 \ \mu$ L Increments: 0.01 $\mu$ L Should have programmable option Compatible tips: 10, 20, 50 micro : Balance ications: Capacity minimum up to: 220 g Readability: 0.1 mg [0.0001g] Linearity: $\pm 0.2$ mg Tare Range: Full Capacity [-220 g] Repeatability: $\pm 0.1$ mg Pan Size: 100 mm Dia. Minimum weight (U=1%, k=2): 14 mg Minimum weight (USP) : 140 mg Sensitivity Drift: $1x10^{-6}$ °C x Rt. or 1 ppm/°C Eccentricity Deviation(test load 100 gm.,): 0.12 mg Draft Shield: Manual Draft Shield Weighing Unit: G, kg, ct, lb, oz, ozt, tlh, tls, tlt, Gn, dwt, mg, /lb, tlc, mom, k tol, bat, and MS.	
4.	Name: Specif v. vii. viii. <b>Name</b> Specif xxiv. xxv. xxv. xxvi. xxvi. xxvi. xxii. xxii. xxii. xxii. xxx. xxx	<b>Electronic pipette</b> ications: Volume metric: $1 - 10 \ \mu$ L Increments: 0.01 $\mu$ L Should have programmable option Compatible tips: 10, 20, 50 micro <b>: Balance</b> ications: Capacity minimum up to: 220 g Readability: 0.1 mg [0.0001g] Linearity: $\pm 0.2 \ mg$ Tare Range: Full Capacity [-220 g] Repeatability: $\pm 0.1 \ mg$ Pan Size: 100 mm Dia. Minimum weight (U=1%, k=2): 14 mg Minimum weight (USP) : 140 mg Sensitivity Drift: $1 \times 10^{-6}$ /°C x Rt. or 1 ppm/°C Eccentricity Deviation(test load 100 gm.,): 0.12 mg Draft Shield: Manual Draft Shield Weighing Unit: G, kg, ct, lb, oz, ozt, tlh, tls, tlt, Gn, dwt, mg, /lb, tlc, mom, k tol, bat, and MS. Weighing Mode : Weighing, Parts Counting, Check	
4.	Name: Specif v. vi. vii. viii. <b>Name</b> Specif xxiv. xxv. xxvi. xxvi. xxvi. xxvi. xxi. xxxii. xxxii. xxii. xxi. xxi. xxi. xxii. xxii.	Electronic pipette ications: Volume metric: 1 – 10 μL Increments: 0.01 μL Should have programmable option Compatible tips: 10, 20, 50 micro : Balance ications: Capacity minimum up to: 220 g Readability: 0.1 mg [0.0001g] Linearity: $\pm 0.2$ mg Tare Range: Full Capacity [-220 g] Repeatability: $\pm 0.1$ mg Pan Size: 100 mm Dia. Minimum weight (U=1%, k=2): 14 mg Minimum weight (USP) : 140 mg Sensitivity Drift: $1x10^{-6}$ /°C x Rt. or 1 ppm/°C Eccentricity Deviation(test load 100 gm): 0.12 mg Draft Shield: Manual Draft Shield Weighing Unit: G, kg, ct, lb, oz, ozt, tlh, tls, tlt, Gn, dwt, mg, /lb, tlc, mom, k tol, bat, and MS. Weighing Mode : Weighing, Parts Counting, Check weighing, Percent Weighing, Dosing, , Peak hold, Statistics,	
4.	Name: Specif v. vii. viii. Viii. Name Specif xxiv. xxv. xxvi. xxvi. xxvi. xxvi. xxvi. xxi. xxii. xxii. xxii. xxii. xxii. xxi. xxii. xxii.	<b>Electronic pipette</b> ications: Volume metric: $1 - 10 \ \mu$ L Increments: 0.01 $\mu$ L Should have programmable option Compatible tips: 10, 20, 50 micro <b>: Balance</b> ications: Capacity minimum up to: 220 g Readability: 0.1 mg [0.0001g] Linearity: $\pm 0.2 \ mg$ Tare Range: Full Capacity [-220 g] Repeatability: $\pm 0.1 \ mg$ Pan Size: 100 mm Dia. Minimum weight (U=1%, k=2): 14 mg Minimum weight (USP) : 140 mg Sensitivity Drift: $1 \times 10^{-6}$ °C x Rt. or 1 ppm/°C Eccentricity Deviation(test load 100 gm.,): 0.12 mg Draft Shield: Manual Draft Shield Weighing Unit: G, kg, ct, lb, oz, ozt, tlh, tls, tlt, Gn, dwt, mg, /lb, tlc, mom, k tol, bat, and MS. Weighing Mode : Weighing, Parts Counting, Check weighing, Percent Weighing, Dosing, , Peak hold, Statistics, Animal Weighing, Density, under hook weighing, Autotest,	
4.	Name: Specif v. vii. viii. <b>Name</b> Specif xxiv. xxv. xxvi. xxvi. xxvi. xxvi. xxii. xxii. xxii. xxii. xxii. xxii. xxii. xxi. xxx. xxx. xxx. xxx. xxx. xxx. xxx. xxx. xxx. xxx. xxx. xxx. xxx. xxx.	<b>Electronic pipette</b> ications: Volume metric: $1 - 10 \ \mu$ L Increments: 0.01 $\mu$ L Should have programmable option Compatible tips: 10, 20, 50 micro <b>: Balance</b> ications: Capacity minimum up to: 220 g Readability: 0.1 mg [0.0001g] Linearity: $\pm 0.2 \ mg$ Tare Range: Full Capacity [-220 g] Repeatability: $\pm 0.1 \ mg$ Pan Size: 100 mm Dia. Minimum weight (U=1%, k=2): 14 mg Minimum weight (USP) : 140 mg Sensitivity Drift: $1 \times 10^{-6/\circ}$ C x Rt. or 1 ppm/°C Eccentricity Deviation(test load 100 gm.,): 0.12 mg Draft Shield: Manual Draft Shield Weighing Unit: G, kg, ct, lb, oz, ozt, tlh, tls, tlt, Gn, dwt, mg, /lb, tlc, mom, k tol, bat, and MS. Weighing Mode : Weighing, Parts Counting, Check weighing, Percent Weighing, Dosing, , Peak hold, Statistics, Animal Weighing, Density, under hook weighing, Autotest, totalizing , Newton Unit Measurement	
4.	Name: Specif v. vi. vii. viii. <b>Name</b> Specif xxiv. xxv. xxvi. xxvi. xxvi. xxvi. xxvi. xxii.	<b>Electronic pipette</b> ications: Volume metric: $1 - 10 \ \mu$ L Increments: 0.01 $\mu$ L Should have programmable option Compatible tips: 10, 20, 50 micro <b>: Balance</b> ications: Capacity minimum up to: 220 g Readability: 0.1 mg [0.0001g] Linearity: $\pm 0.2 \ mg$ Tare Range: Full Capacity [-220 g] Repeatability: $\pm 0.1 \ mg$ Pan Size: 100 mm Dia. Minimum weight (U=1%, k=2): 14 mg Minimum weight (USP) : 140 mg Sensitivity Drift: $1x10^{-6}$ °C x Rt. or 1 ppm/°C Eccentricity Deviation(test load 100 gm): 0.12 mg Draft Shield: Manual Draft Shield Weighing Unit: G, kg, ct, lb, oz, ozt, tlh, tls, tlt, Gn, dwt, mg, /lb, tlc, mom, k tol, bat, and MS. Weighing Mode : Weighing, Parts Counting, Check weighing, Percent Weighing, Dosing, , Peak hold, Statistics, Animal Weighing, Density, under hook weighing, Autotest, totalizing , Newton Unit Measurement Calibration: Internal [automatic]	
4.	Name: Specif v. vii. viii. viii. <b>Name</b> Specif xxiv. xxv. xxvi. xxvi. xxvi. xxvi. xxvi. xxii.	<b>Electronic pipette</b> ications: Volume metric: $1 - 10 \ \mu$ L Increments: 0.01 $\mu$ L Should have programmable option Compatible tips: 10, 20, 50 micro <b>: Balance</b> ications: Capacity minimum up to: 220 g Readability: 0.1 mg [0.0001g] Linearity: $\pm 0.2 \ mg$ Tare Range: Full Capacity [-220 g] Repeatability: $\pm 0.1 \ mg$ Pan Size: 100 mm Dia. Minimum weight (U=1%, k=2): 14 mg Minimum weight (USP) : 140 mg Sensitivity Drift: $1 \times 10^{-6}$ /°C x Rt. or 1 ppm/°C Eccentricity Deviation(test load 100 gm): 0.12 mg Draft Shield: Manual Draft Shield Weighing Unit: G, kg, ct, lb, oz, ozt, tlh, tls, tlt, Gn, dwt, mg, /lb, tlc, mom, k tol, bat, and MS. Weighing Mode : Weighing, Parts Counting, Check weighing, Percent Weighing, Dosing, , Peak hold, Statistics, Animal Weighing, Density, under hook weighing, Autotest, totalizing , Newton Unit Measurement Calibration: Internal [automatic] Stabilization Time: 2 Seconds	
4.	Name: Specif v. vii. viii. Name Specif xxiv. xxv. xxvi. xxvi. xxvi. xxvi. xxii. xxii. xxii. xxii. xxii. xxiv. xxv. xx	<b>Electronic pipette</b> ications: Volume metric: $1 - 10 \ \mu$ L Increments: 0.01 $\mu$ L Should have programmable option Compatible tips: 10, 20, 50 micro <b>Balance</b> ications: Capacity minimum up to: 220 g Readability: 0.1 mg [0.0001g] Linearity: $\pm 0.2 \ mg$ Tare Range: Full Capacity [-220 g] Repeatability: $\pm 0.1 \ mg$ Pan Size: 100 mm Dia. Minimum weight (U=1%, k=2): 14 mg Minimum weight (USP) : 140 mg Sensitivity Drift: $1\times10^{-6}/^{\circ}C \ x \ Rt. \ or 1 \ ppm/^{\circ}C$ Eccentricity Deviation(test load 100 gm.,): 0.12 mg Draft Shield: Manual Draft Shield Weighing Unit: G, kg, ct, lb, oz, ozt, tlh, tls, tlt, Gn, dwt, mg, /lb, tlc, mom, k tol, bat, and MS. Weighing Mode : Weighing, Parts Counting, Check weighing, Percent Weighing, Dosing, , Peak hold, Statistics, Animal Weighing, Density, under hook weighing, Autotest, totalizing , Newton Unit Measurement Calibration: Internal [automatic] Stabilization Time: 2 Seconds Working Temperature: +10 to +40 °C	

	xli.	Display: LCD with Back Light	
	xlii.	Special Features:	
	xliii.	Databases: 10 users, 1,000 Products, 1,000,000 weighing records	
		can be stored in memory.	
	xliv.	Inter face: $2 \times RS$ 232, USB-A, USB-B	
	xlv.	Draft Shield: 3 Side removable Glass draft shields	
	xlvi.	GLP/GMP complies: Yes GLP/GMP Complies	
		1 1	
6.	Name	: Mirrorless camera	
	Specif	fications:	
	xix.	Full frame picture angle	
	XX.	Sensor size minimum: 35.9 mm x 23.9 mm	
	xxi.	Sensor type: CMOS	
	xxii.	Effective pixel: 24.5 million	
	xxiii.	Dual card slot	
	xxiv.	File format: RAW and JPEG	
	XXV.	Must have eye sensor to automatically switch between monitor	
		and viewfinder displays	
	xxvi.	Should have depth of field control	
	xxvii.	Continuous shooting: Low-speed continuous: 1-5 fps High-speed	
		continuous: 5.5 fps High-speed continuous (extended): 14 fps (14-	
		bit RAW: Approx. 10 fps)	
	xviii.	Shutter speed: 9000 sec. to 1/8000 sec.	
	xxix.	Exposure: TTL metering, auto Programmed auto with flexible	
		program (P), Shutter-priority auto (S), Aperture-priority auto	
		(A), Manual (M), and 3 user-defined settings	
	XXX.	ISO Sensitivity: Auto ISO sensitivity control; ISO 100 -	
		51,200 in steps of $1/3$ or $1/2$ EV should have options to set to	
		approx. 0.3, 0.5, 0.7 or 1 EV (ISO 50 equivalent) below ISO 100 or	
		to approx. 0.3, 0.5, 0.7, 1 or 2 EV (ISO 204,800 equivalent) above	
		ISO 51,200	
	xxxi.	Focus point: 273 (single-point AF)	
	xxxii.	Movie options: Minimum 4K UHD 3,840x2,160 / 30 fps 4K	
		UHD 3,840x2,160 / 25 fps 4K UHD 3,840x2,160 / 24 fps Full	
		HD 1,920x1,080 / 120 fps Full HD 1,920x1,080 / 100 fps Full	
		HD 1,920x1,080 / 60 fps Full HD 1,920x1,080 / 50 fps Full	
		HD 1,920x1,080 / 30 fps Full HD 1,920x1,080 / 25 fps Full	
		HD 1,920x1,080 / 24 fps Full HD 1,920x1,080 slow-mo / 30	
		fps x4 Full HD 1,920x1,080 slow-mo / 25 fps x4 Full HD	
		1,920x1,080 slow-mo / 24 fps x5	
	xxiii.	Monitor size 8-cm (3.2-in.) with approx. 2100k dot	
	xxiv.	Connectivity: USB Type C (Super speed), Type C HDMI	
		connector Accessory terminal, Stereo mini-pin jack for audio	
		in and out, Wi-fi connectivity, bluetooth and GPS	
	XXXV.	Battery should be capable of capturing minimum 400 shots, and	
		minimum 450 shots in energy saving mode	
	xxvi.	Should have tripod socket, strap, battery charger, and standard	
		company warranty	
7.	Name	: Lens for item no. (6)	
	Specif	Treation:	
	V1.	Focal length: 16-50 mm	
	V11.	Aperture range: 1/16 to 1/3.5-6.3	
	V111.	Should have dual detect optical Vibration reduction lens shift	
		using voice coil motors	
	1X.	Should have Autorocus option	
0	X.	Standard company warranty	
δ.	Iname	: Ivracro-tens for item no. (0)	
	specif	ICAUOIIS.	

	vii.	Focal length: 105 mm	
	viii.	Minimum focus distance: 0.29 m	
	ix.	Aperture range: f/32 to f/2.8	
	х.	Full frame format	
	xi.	Both autofocus and manual modes	
	xii.	Standard company warranty	
9.	Name: Flash for item no. (6)		
	Specif	fications:	
	The li	ght distribution angle should be automatically adjusted to the	
	camer	a's image area in both FX and DX formats. Standard Even Center-	
	weigh	ited	

Signature Seal

Date:

Place:

### ANNEXURE-V

### TECHNICAL BID - CHECK LIST

Sl. No	Particulars	Mention 'Yes'/ 'No'
1.	Whether "Technical Bid" & "Financial Bids" submitted separately and	
	the respective envelopes superscribed properly	
2.	Whether Tender Fee submitted? (if applicable).	
3.	Whether EMD submitted? (if applicable)	
4.	Whether MSME/NSIC/SSI certificate submitted? (in case of seeking	
	Exemption)	
5.	Whether copy of PAN submitted?	
6.	Whether valid Trade License submitted?	
7.	Whether GST regn. Certificate provided?	
8.	Whether dealership/OEM certificate provided?	
9.	Whether detailed compliance sheet submitted?	
10.	Whether technical specification/ Literature provided?	

All above enclosures must be valid (wherever applicable)

Date:

Name & Signature of the tenderer with seal

Place:

Note: Tenders not accompanied with above information & documents in support of the same may be summarily rejected.