

**INFORMATION BOOKLET  
ON  
QUOTATION CALL NOTICE  
(Ref: KUB/PGCO/2018/113, Dated. 3.11.2018)**



**KHALLIKOTE UNIVERSITY  
BERHAMPUR-760001  
Dist-Ganjam, Odisha**

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# **KHALLIKOTE UNIVERSITY**

## **Berhampur-760001, Odisha**

Ref: KUB/PGCO/2018/113

Dated. 3.11.2018

### **QUOTATION CALL NOTICE**

Sealed tender (Two bid system) is invited from the eligible Manufacturers/ Authorized dealers/ Registered firms to supply the Lab Equipments, IT and electronic equipments, Lab furnitures etc. to the undersigned on 'FOR' destination basis. **The last date of submission of tender is 3.00 PM, 30<sup>th</sup> November 2018.** The undersigned reserves the right to cancel any portion or the entire tender without assigning any reason thereof. The interested bidder should download the tender document from the Website **[www.khallikoteuniversity.ac.in](http://www.khallikoteuniversity.ac.in)**. The bidder can also obtain the tender document by sending email request to the Chairman, PG Council, Khallikote University through email ID "pgco.ku@gmail.com" before the last date of submission.

**Chairman, PG Council**

## Chapter-I: Instructions to the Bidder

The tender document may be downloaded from the website “khallikoteuniversity.ac.in” or by sending email request to the Chairman, PG Council, Khallikote University through email ID “pgco.ku@gmail.com” before the last date of submission. The bidders have to submit the demand draft of Rs. 1050.00 (Rupees One Thousand and Fifty) only in favour of the “COMPTROLLER OF FINANCE, KHALLIKOTE UNIVERSITY”, payable at “BERHAMPUR” towards the non-refundable tender document fee along with quotations/bids.

### I.1 Eligibility of Bidder:

- a. The Suppliers must be either the manufacturer of the lab equipments/ IT and electronic equipments/ Lab furnitures or the authorized agent/ dealer / representative of the manufacturer. In case of manufacturers they have to submit the manufacturers form along with technical bid as per the format enclosed (**Format-I**) In the case of dealer/ distributor/ agent/ representative, certified valid copy of the authorization issued by the manufacturer (**Format-II**) should be enclosed with the Technical Bid.
- b. The firm must have valid GST Registration certificate and Up-to-date Income Tax Clearance Certificate/ GST Return.
- c. The firm must have annual turnover of Rs. 30 Lakhs or more for last three years (2015-16, 2016-17 & 2017-18). A declaration in this regard should be submitted as per the **Format-III** along with supporting documents.
- d. The firm must have valid PAN and GSTIN number registration.

### I.2 Submission of quotation/tender/bid (Two Bid System)

- a. **TENDER SHOULD BE SUBMITTED SEPARATELY FOR EACH ITEM** The Bid/Tender/ Quote shall be submitted in **two bid system** i.e. Technical Bid & Financial Bid. The Technical Bid and Financial Bid shall be covered in two separate envelopes and shall be clearly mentioned on the top of the envelope as Technical Bid and Financial Bid, respectively. Both the bids will be covered in a big envelope writing on the top of that envelope “**Tender for Lab equipments, IT and electronic equipments and/or Lab furnitures etc.**” (**Mention for which item tender submitted with**).
- b. **The Technical bids** should contain
  - i. The detailed specification of the item/equipment quoted along with make and model as per the form enclosed at **Format-IV**.
  - ii. **Technical Compliance to specifications** as per the form enclosed at **Format-V**,
  - iii. **Technical Literature** in support of the Lab equipment/ IT from the manufacturers
  - iv. Other documents such as self attested copy of upto date ITCC and GST return, copy of GST registration certificate, copy of PAN/TAN/TIN and other documents in conformity with their eligibility such as authorization for supply,
  - v. **Earnest money deposit (EMD)** as demand draft in favour of “COMPTROLLER OF FINANCE, KHALLIKOTE UNIVERSITY”, payable at BERHAMPUR” with six month validity and **the EMD cost** should be submitted **for each item** as mentioned against their name in **Chapter-III: Schedule of Requirement and**

**Chapter-IV: Specifications of the equipment(s)/ item(s).** Fill the details of EMD as per the enclosed **Format-VI**.

- vi.** **Non refundable tender fee of Rs. 1050.00 in form of demand draft** in favour of “**The Comptroller of Finance, Khallikote University**” and Payable at Berhampur.
  - vii.** **Check list of documents** enclosed along with the **Technical Bid** as per the **Format-VII**.
- c. Financial Bid** should contain only the price quote for the item without any error, erasers or alterations as per **Format-VIII**. **Clearly mention the price for base model, accessories and tax component or others.**
- The quoted rates shall include the bidders cost towards insurance, packing and forwarding, transportation and installation at Khallikote University, Berhampur.
  - GST and other local taxes should be clearly mentioned including its percentage as per govt. rule in force and the amount in the format of quotation (**Format-VIII**).
  - No conditional price will be taken into consideration. No escalation of the price in later stage is acceptable.
  - Warranty period details should be clearly mentioned (extended warranty period separately).
  - The cost of recommended essential spares should be mentioned separately.
  - List and cost of consumables/standards etc., required from time to time with all other necessary details.
  - AMC after warranty period (to be shown separately) along with financial bid.

**d. Other Terms & Conditions:**

- i.** The Quotation shall be submitted separately for each item clearly superscribing on the envelope the name of the instruments /equipment/ furniture/ item. The technical bid and price bid shall be submitted in separate sealed covers. **Submission of quotations without tender cost and EMD along with Technical bid will be summarily rejected.**
- ii.** **The Quotations will be received at the Office of the Chairman, PG Council, Khallikote University, Berhampur** on all working days **up to 3.00 P.M., 30<sup>th</sup> November 2018 (By SPEED POST and/or REGISTERED POST only).**
- iii.** The Supplier must be either the manufacturer of the item /equipment or the authorized agent/ dealer/ representative of the manufacturer.
- iv.** In the event of any item being available on Rate Contract, the quotation for that item shall not exceed the Rate Contract approved. The existence, price and terms and conditions of all Rate Contract items shall be disclosed by the bidder.
- v.** **The rates/price should be quoted in the currency of the country where the instruments/equipment is manufactured and equivalent Indian currency.**
- vi.** **The price shall be inclusive of all taxes, transportation cost and cost of installation/commissioning, trial operation, comprehensive training and clearance charges.** Necessary documents for clearing the consignment through customs authorities will be provided by us and the suppliers or agents of manufacturer arrange the clearance of the consignment on payment basis.

- vii. Delivery shall be at **Chairman, PG Council, Khallikote University, Berhampur-760001** unless otherwise specified.
- viii. The successful tenderer should supply the item/equipment within a period of 4-6 weeks from the issuing date of purchase order by the Competent authority of Khallikote University (**The Chairman, PG Council**).
- ix. The EMD of the successful tenderer will be refunded after completion of the supply and installation of the equipment to the satisfaction of the concerned authority of Khallikote University, Berhampur.
- x. The EMD of the unsuccessful tenderers will be returned to the concerned tenderer immediately after finalization of the tenders.
- xi. Documents such as instrument operation, calibration, maintenance, drawing, descriptive literature etc., if any, along with original instruction and data analysis manual should be supplied by the successful tenderer along with the equipments.
- xii. **Software upgrades shall be provided free of cost during and after warranty on request – wherever applicable.**
- xiii. Instruments/equipments should be unpacked in the presence of the competent authority of Khallikote University and /or their representatives. The consignment will be accepted only after inspection.
- xiv. **A warranty certificate covering a period of minimum two years** from the date of installation shall be provided. Any additional period towards warranty will be given weightage in evaluation of the quotations.
- xv. Inspection certificates of the instruments / equipments inspected by the qualified engineer of the manufacturer and packed in accordance with the terms and conditions of this order must be enclosed.
- xvi. During the warranty period or later whenever the firm is called upon to attend to the rectification of the defects/faults in the consignments, the firm shall attend to the repair of instrument within 48-96 hours. They should render timely back up service whenever called upon. **A certificate to the effect should be attached along with the invoice or delivery chalan (Please see Format-IX).**
- xvii. **A certificate to the effect that instrument/equipment supplied is fully operational and no additional accessory or spare is required to make the instrument/ equipment operational should be issued along with the delivery chalan / invoices (Format-IX).**
- xviii. **The invoices should be submitted in triplicate** in the name of “**The Registrar, Khallikote University, Berhampur**” for pass and payment. The payments will be made only after successful installation at Khallikote University, Berhampur.
- xix. The Chairman, PG Council reserves the right to refuse payment in the event of unsuccessful installation and the non-submission of the certificates/ undertaking/ affidavit at the time of supply.
- xx. The Khallikote University reserves the right to accept/reject any tender without assigning any reason thereof.
- xxi. **Once the rate is approved by purchase committee and supply order is placed to the successful bidder and in the event of failure on the part of the bidder for supply of the equipment/instrument/items on any account, the committee reserves the right to forfeit the EMD.**

- xxii. To ensure the performance of the instrument/ equipment costing more than Rs. 50,000.0 per item, A PERFORMANCE SECURITY for an amount of Five Percent of the value of the order excluding Taxes should be furnished in the form of a A/c Payee Demand Draft or fixed deposit receipt from a commercial bank (in Favour of “Comptroller of Finance, Khallikote University”) or Bank guarantee from a commercial bank in the acceptable form as recommended by Govt. of Odisha. The model Bank Guarantee format for performance security is at **Format-X.**
- xxiii. **ALL THE BIDDERS MUST HAVE TO SUBMIT THE DECLARATION/ UNDERTAKING (IN THE FORM OF AFFIDAVIT BEFORE NOTARY PUBLIC) as per the format IX.**
- xxiv. The **Detailed information of the Bidder** and The service Centres (in case of Equipments only) should be submitted as per the **Format XI.**
- xxv. The decision of the Purchase committee in all matters shall be final and binding on bidders.
- xxvi. Any dispute, if arises, are subject to jurisdiction of Odisha High court only.

**e. Important Dates and Time:**

Sl.	Particulars	Date and Time
1	<b>Release of the Tender through Advertisement</b> in One Odia and One English daily and uploading in the website ‘ <a href="http://www.khallikoteuniversity.ac.in">www.khallikoteuniversity.ac.in</a> ’.	<b>3<sup>rd</sup> November 2018</b>
2.	<b>Last date and Time for the submission of Bid/Tender/ Quotation with all documents (Two bid system)</b>	<b>3.00 PM, 30<sup>th</sup> November 2018</b>
3.	<b>Opening of Technical bid in presence of all the bidders</b>	<b>3.00 PM, 3<sup>rd</sup> December 2018</b>
4.	<b>Date of demonstration about the item/ equipment (if required on the recommendation of purchase committee/ Technical committee)</b>	<b>To be informed to the successful bidders through email, SMS and phone at least three days in advance.</b>
5.	<b>Date of opening of price bid of successful bidder (those qualified in the technical screening process)</b>	<b>To be informed to the successful bidder through email, SMS and phone at least three days in advance.</b>

**Note:**

- 1. For model format for supply agreement you can refer the Office Memorandum no. 4939/F./Codes-27/2011, Dated. 13.02.2012 of Finance Department, Govt. of Odisha.**
- 2. If any of the clause(s) is (are) missed in this bid document the guidelines of procurement of goods vide Memorandum no. 4939/F./Codes-27/2011, Dated. 13.02.2012 of Finance Department, Govt. of Odisha will be followed.**

## Chapter-II: Condition(s) of the Contract (Supply of the Items)

### II.1 Time limits prescribed

Sl.	Activity	Time Limit
1	Delivery Period	Maximum six to eight weeks from the date of issuance of purchase order OR as stipulated in the PO.
2	Destination	The Chairman, PG Council, Khallikote University on FOR basis
3	Comprehensive warranty period	Two years from the date of installation
4	AMC period	Minimum Three years after completion of the warranty
5	Preventive maintenance visit during warranty and AMC	One visit at least in every six months (minimum Two visits per year) for periodic/ preventive maintenance and anytime for attending repairs/ break down calls
6	Submission of Performance security and entering into the contract	Within the time limit mentioned in the purchase order or before the supply and installation of the item/equipment.
7	Time for making payment by Khallikote University	Within 30 days of successful installation and submission of proper documents along with invoice.
8	Frequency of payment of AMC charges	Every six months
9	Maximum time to attend in any repair call	Within 96 hours
10	Validity of the Bid/Quotes	180 days from the last date of Bid submission

### II.2 Other Term and conditions

- a. The detailed technical specifications and terms and conditions governing the supply, installation, commissioning and the after sales service of the equipments/ items bided are contained in this “Bid Document”.
- b. The purchasers of the bid document shall examine all instructions, forms, terms and specifications in the Bid Document and verify that all the contents mentioned under various chapters are contained in the ‘Bid Document’.
- c. Failure to furnish any information required by the bid documents and submission of an offer not substantially responsive to it in every respect shall be at the bidder’s risk and may result in the rejection of the bids, without any further notice.
- d. Bidder should see the check list (**Format-VII**) for details of documents submitted.
- e. Local MSEs only registered in Odisha with the respective DICs, Khadi, Village, Cottage & Handicraft Industries, OSIC, NSIC shall be exempted from submission of EMD, subject to submission of the valid registration certificate from the concerned authority. None of the bidders other than those specified above, is exempted from submission of EMD.
- f. The bidder can modify or withdraw bids submitted before the last date & time for its submission. The modification proposal (if any) can be submitted before the last date in addition to sealed tender/bid submitted earlier.



## Chapter-III: Schedule of Requirements

### A. Laboratory Equipments

Sl.	Name of the Item	Quantity*	EMD amount (INR)
1	High speed Refrigerated Centrifuge	1	9000.00
2	Gradient PCR Machine	1	8000.00
3	UV-vis spectrophotometer	1	8000.00
4	Autoclave	1	2000.00
5	Double Distilled water unit (Quartz)	1	3000.00
6	Spectrofluorometer	1	12000.00
7	Analytical Balance	1	2000.00
8	Real Time PCR	1	15000.00
9	Ion Meter	1	10000.00
10	Deep freezer (-20°C)	2	3000.00
11	Agarose gel electrophoresis mini, midi unit, gel caster with power pack	1 set	2000.00
12	SDS-PAGE unit with power pack	1 set	2000.00
13	Semi-Dry Blotting apparatus	1 set	1000.00
14	Micropipettes (P10, P20, P100, P200, P1000)	20 (four each)	2000.00
15	Refrigerator (4°C)	2	1500.00
16	Compound light Microscope (binocular)	2	2000.00
17	Laminar airflow (4ft)	2	3000.00
18	Weighing balance (Low weight range)	2	1600.00
19	General lab centrifuge-I	1	800.00
20	General Lab Centrifuge-II	1	600.00
21	BOD Incubator-I	1	2500.00
22	BOD Incubator-II	1	1000.00
23	Water bath (Shaking)	2	2000.00
24	Waterbath	1	500.00
25	Hot-air oven	2	1600.00
26	Stereozoomic microscope with camera	1set	3000.00
27	Plant growth chamber	1	4000.00
28	Dry bath	1	800.00
29	Ice Flaker	1	2000.00
30	Rocker	1	600.00
31	pH meter	2	600.00
32	Vortex mixer	2	400.00
33	Magnetic stirrer with temp control	2	600.00
34	Microwave oven	1	200.00
35	Haemocytometer	4	400.00
36	Compound light microscope (monocular)	3	600.00
37	Bacteriological Incubator	1	700.00
38	Microcentrifuge	2	500.00
39	Visible Spectrophotometer	2	2000.00
40	ELISA Reader (Plate)	1	4000.00
41	Liquid Nitrogen Container	1	500.00
42	Respirable Dust Sampler	1	2000.00
43	Fine Particulate Sampler	1	3000.00
44	EC/TDS Meter	1	500.00
45	Flame Photometer	1	1200.00
46	COD Digestion Apparatus	1	800.00
47	Platform (Rotary) Shaker	2	1200.0

48	Vacuum pump with membrane filtration assembly	1	500.0
49	Ultra Sonicator (bath)	1	400.0
50	Hot Plate	1	200.0
51	Muffle Furnace	1	600.0
52	Nephelometer	1	400.0
53	Refractometer	1	300.0
54	Heating mantle (six mantle set, with clamps to hold condensers)	1	300.0
55	Kjeldhal Digestion Unit	1	300.0
56	Portable Autoclave	2	300.0
57	Petrological binocular student microscope	1	400.0
58	Ore student microscope	1	800.0
59	Trinocular microscope	1	3500.0
60	UV Transilluminator	1	1200.0

### B. IT and Electronic Equipments

Sl.	Name of the Item	Quantity*	EMD amount (INR)
1	Computer Server	01	4000.00
2	Desktop PC	14 + 01	13500.00
3	On line UPS-5 KVA with Battery	01	2500.00
4	Mojo Kit	01 set	600.00
5	Action Camera (Go-Pro)	02	1000.00
6	Teleprompter	01	5000.00
7	MAC System-PC	01	3000.00
8	Professional DSLR Camera (Full Frame) with accessories	01	2500.00
9	Fish Eye Lense with accessories	01	500.00
10	DSLR Mirrorless Gimble with accessories	01	600.00
11	Senheiser-Cordless Mic Kit with accessories	01 set	1200.00
12	Studio Monitor Set with accessories	01	1000.00
13	Audio System with accessories	01set	1000.00
14	Audio Recorder with accessories	01	500.00
15	Digital camera with accessories	01	1000.00
16	Video Camera with accessories	01	2000.00
17	24 inch Monitor	01	5000.00
18	One way Mirror	01	500.00
19	Laser Printer	06	500.00
20	LCD Projector	06	5000.00
21	Projector Screen	06	250.00

### C. Lab Furnitures:

Sl.	Name of the Item	Quantity*	EMD amount (INR)
1	Lab Table Centre (4x 8Ft)	04	4000.00
2	Lab Table Wall side (2.5 x 8Ft)	08	4000.00
3	Lab stool (Bar stool type)	24	1000.00
4	Computer Table	06	2000.00

\*The quantity can be modified/ altered at the discretion of the purchase committee keeping the interest of the University into account.

## Chapter-IV: Specifications and Allied Technical details

### A. Laboratory Equipments

Sl.	Name of the Item	Specifications	Quantity	EMD amount (INR)
1	High speed Refrigerated Centrifuge	<p>Refrigerated Centrifuge with Fixed angle rotor, swing out rotor and Microplate rotor. Max speed: atleast 14000 rpm (20000Xg); Temp range: -5°C to 30 °C with Fast cooling option; Should have automatic rotor detection and imbalance checking; Programming for temperature, time and RCF/RPM; preset temperature and time; Run time: 30 sec to 99:50 minutes and continuous run function; Timer countdown to be started only when selected speed is achieved; Program memory: 3-40 programs; Display for rcf and rpm speed setting; Noise levels: ≤ 60 dB(A); Automatic motorised lid locking; Safety standards as per IEC 1010-2-020; Stainless steel and corrosive resistant chamber; Condensation drain should be available to eliminate water accumulation in chamber; Rotor: Made of Metal ; Autoclavable rotors at 121°C for 20min; Centrifuge should be IVD (In-vitro diagnostic) certified.</p> <p><b>Fixed Angle rotor:</b> Atleast 20000 RCF &amp; 12000rpm with Max Capacity – 6 x 50ml or more with adaptors 6 x 15, 6 x 50 conical tubes and falcon tubes and 24 x 1.5/2ml tubes.</p> <p><b>Swing bucket rotor :</b> Atleast 4500 RCF&amp; 5000 rpm with Max Capacity – 4 x 250ml or more with adaptors 4 x 100, 4 x 50 ; 8 x 15 ml conical tubes and 12 x 1.5/2ml tubes for holding tubes of 0.2 ml to 250 ml</p> <p><b>Plate rotor :</b> Atleast 3500 RCF&amp; 2000 rpm with Max Capacity – 2 x 4 cell culture plates and.or 2 x 2 PCR plates.</p> <p><b>Power supply:</b> Single phase, 220±20V and 50Hz, Should be provided with suitable stabilizer</p>	1	9000.00
2	Gradient PCR machine	<p><b>Gradient Thermal Cycler: Block</b> for 96 × 0.2 ml and 1PCR plate 8 x 12 (SBS standard), Sample working volume 10ul-50ul, Block Homogeneity ≤ 0.3°C, RAMP rate of 4- 5°C/sec for both cooling and heating; Silver Block shall be preferred;</p> <p><b>Temperature control</b> of block: 4-99°C, Temperature control mode –Fast, standard and safe,</p> <p><b>Gradient Block</b> – Over 12 rows, Gradient range:</p>	1	8000.00

		<p>20 degree across the entire temperature control range; <b>Heated lid system</b> with temp. range: 35°C to 110°C, Block should maintain below 20°C during the heated lid reaching to its set temp to avoid unspecific amplification.</p> <p><b>Auto restart option</b> in event of Power failures, Display to indicate cycler number, temperature stand etc., Self-test of peltier elements, RS 232 and printer interface; <b>Memory</b> of atleast 500 programs</p> <p>Facility for programming: 2 step PCR, 3 Step PCR, Gradient PCR, Long Range PCR, Low volume PCR, Incubation, Cycle sequencing, Touchdown PCR, Hot Start PCR, Large volume PCR, Nested cycles.</p> <p>Should be provided with suitable online UPS with 2hr backup.</p> <p>Power supply: single phase, 220±20V and 50Hz</p>		
3	UV-vis Spectrophotometer	<p>Dual Beam, Wavelength Range: 190 nm – 1100 nm; Spectral Bandwidth- <math>\leq 2.0</math> nm; Scanning- Slow, medium and fast – up to 3200 nm/min; Wavelength Accuracy- <math>\pm 0.5</math> nm; Wavelength Data Interval- 0.1 nm, 0.2 nm, 0.5 nm, 1 nm, 2 nm, 5 nm; Wavelength Repeatability <math>\pm 0.5</math> nm; Photodiode detector, Graphical LCD display; Single cell holder and automatic six cell changer; Lamp life warranty should be 5 years; Should be provided with Suitable PC for all analysis and accessories. Should be provided with suitable online UPS.</p> <p>Power supply: single phase, 220±20V and 50Hz</p>	1	8000.00
4	Autoclave	<p>Autoclave having sturdy double wall construction with boiler made up of stainless steel at least 18 SWG sheet of volume approximately 50-80 liters, Chamber size 450mm x 600 mm; Operation with saturated steam under pressure of 15 to 20 PSI (adjustable);Temp Range upto 140°C; Heat resistant SILICON door gasket that can withstand upto 140°C; Boiler and outer shell with air insulation; Lid made of steel sheet and tightened by radial locking; Joint-less gaskets made up of neoprene rubber; Sterilizer fitted with water level arrangement to indicate water position inside the boiler.; Pressure gauge, air/steam release cock and two safety valves</p>	1	2000.00

		should be provided; Immersion type heating element; Microprocessor controlled; Safety features of sterilizers: Door locking facility, Low water protection system with Auto cut off and Pressure cut off facility etc. should be provided; power supply: single/three phase, 220±20V and 50Hz		
5	Double Distilled water unit (Quartz)	All Quartz double distillation unit, vertical model; Distilled Water Output Capacity – at least 2.5 lt/hr; Distillate should be free from pyrogen and organic matter; Conductivity <math><1.5-2.0 \times 10^{-6}</math> S/cm; Total Organic Carbon <math><500\mu\text{g/lt}</math>; Total Solids <math><0.1\text{mg/lt}</math>; Working Temperature: -10°C to 100°C; Temperature Accuracy: ±01°C; External water circulation for continuous operation; Auto cut-off system for double stage. Power supply: single phase, 220±20V and 50HZ	1	3000.00
6	Spectrofluorometer	Light source: 150 W Xenon lamp; Light source lifetime: upto 2,000 hours; Light source compensation: Monochromatic light monitoring ratio calculation; Wavelength scale: 200 to 900 nm and 0 order; Scanning Wavelength range: 200 to 900 nm and 0 order; Spectral bandwidth: Excitation: 1.5, 3, 5, 10, 15, 20 nm; Emission: 1, 3, 5, 10, 15, 20 nm; Resolution: 1.0 nm or less (Emission); Wavelength accuracy: Within ±1.0 nm; Wavelength scanning: Max. 60,000 nm/min; Wavelength slewing speed: 60,000 nm/min.; Sensitivity selection: 3 steps of High, Low and Auto; Monochromator: Blazed holographic grating, 1300 grooves/mm; Sensitivity: The SN ratio of the Raman line of distilled water to be in the range of 320-360 and more (P-P) 1,000 and more (RMS) Excitation 350 nm, Spectral bandwidth 5 nm, Response 2 sec. ; Interface: USB 2.0/3.0, Interface for Auto Sample Changer, Interface for sipper unit, Analog output (1 V/full scale), Interface to input External switching signal; Operational temperature range: 15 to 35 °C; Operational humidity range: 30 to 80 % (Below 70 % with temperature higher than 30 °C) with no condensation; Appropriate software for operating the instrument; Options for PC and printer attachment; Power supply: single phase, 220±20V and 50HZ	1	12000.00

7	Analytical Balance	High precision analytical balance; Digital, internal calibrated, micro processor based, Readability- 0.1mg, capacity upto 120 g, repeatability 0.1 mg, linearity-0.2 mg, Display-LCD/LED; pan size-80-100 mm with power protected adapter; Air proof transparent cabinet over the pan; Tare across weight ranges; Overload indication; Auto shut off after 1 min of inactivity; Power supply: single phase, 220±20V and 50HZ	1	2000.00
8	Real Time PCR	Real time PCR with block of 96 x 0.2 ml tubes or plate to Run typical 0.2ml tubes,strips, and plates; Should have 3 filtered LEDs as an excitation source with 3 filtered Photodiodes for detection; Gradient capacity with Dynamic ramping with RAMP speed : 5.0 °C per sec; Detection of at least two different fluorescent reporters in the same tube; Should be capable of Detecting FAM/Sybr Green, and VIC, HEX, TET, CAL Fluor Gold 540 etc.; Should have enough number Peltier Cooling & Heating for uniform temp control; Must have one channel dedicated for FRET experiments; Excitation Emission range: 450- 580nm; No internal reference dye should be required. True 2 Color Multiplexing with use of 2 different flourophores without the need of addition of any internal reference dye; Open system capable of running various chemistries so that Different chemistries using TaqMan, Molecular Beacon, SYBR green etc all can be performed.Temperature range 06 100 OC with accuracy of ±0.2 °C and uniformity of ±0.4 °C, within 10 sec of arrival at 90.0°C; Sample volume should be 1-50 ul; Should have built in data analysis modules with advance features like well highlighting, QC flags and custome data view assist with quick analysis; Should be capable to perform Automatic allelic discrimination by end point fluorescence or threshold cycle; Should be capable to perform Gene expression analysis by relative quantity or normalized expression; Should have mode for Melt curve analysis and should be compatible for HRM applications; Software should have express load feature which allows entry of data	1	15000.00

		after experiment; Should be Licensed for Research & IVD applications. System should provide an additional qbase plus software license which is RDML compliant. Should be provided with PC (at least i5, 4 GB RAM, 1TB HDD), Printer and suitable online UPS Power supply: single phase, 220±20V and 50HZ		
9	Ion Meter	pH: 0 – 14; Potential: ± 2000 to ± 2300 mV; Temperature: Pt1000: -150.0...+250.0 °C; Ion Concentration: 10 <sup>-37</sup> – 10 <sup>+38</sup> ; Resolution: pH: 0.001, Potential: 0.1 mV, Temperature: 0.1 °C; Electrode: combined Glass Electrode with PT 1000 temp. sensor with cable; Ion Selective Electrodes (ISE): F, S, Cd, Pb, Cu; Reference electrode: Ag/AgCl; Add on: Cable for ISE, reference electrode, Magnetic stirrer, electrode holder, storage solution with reference electrolyte; Output: Bi-Directional RS 232C Interface for PC or Printer; Display: Large LCD Screen for the graphical display of Calibration curve , results for pH , mV, temp. / Conc. Versus time curve etc.; Automatic Temperature Compensation for pH measurement; Automatic pH calibration with up to 9 buffers; Calibration of Ion meter with up to 19 standard solutions; Automatic buffer recognition; Determination of Ion Concentrations by Direct measurement ,automatic standard addition or subtraction. Power supply: single phase, 220±20V and 50HZ	1	10000.00
10	Deep freezer (-20°C)	Upright Vertical Deep Freezer; Temperature range -17°C to -24°C; Direct Cooling Type; Microprocessor controlled system; Capacity 240-340 Lit; Minimum 6 shelves; CFC- free refrigerant; Must be having digital display and alarm features; Low energy consumption and noise levels; Power supply: single phase, 220±20V and 50Hz. Should be supplied with suitable stabilizer.	2	3000.00
11	Agarose gel electrophoresis mini, midi unit, gel caster with power pack	<b>Power pack:</b> At least four slots, Voltage: 10-300v, Current: 10-400mA, Accuracy: ± 2.0%; Digital display with timer; Timer-0-699 min.; Power surge protection; Power supply-.single phase, 220-240v, 50 Hz; Power consumption:	1 set	2000.00

		75-100 Watt; <b>Submarine electrophoresis apparatus:</b> Midi, 15 x 14 cm 15 x 20 cm gel size with UV transparent gel casting tray, integrated buffer chamber, safety lid with cables; comb (1-.0 mm and 1.5 mm for 15-20 well), supplied with gel caster unit.		
12	SDS-PAGE unit with power pack	<b>Power pack:</b> At least four slots, Voltage: 10-300v, Current: 10-400mA, Accuracy: $\pm 2.0\%$ ; Digital display with timer; Timer-0-699 min.; Power surge protection; Power supply-.220-240v, 50 Hz; Power consumption: 75-100 Watt; <b>Vertical slab gel system:</b> Midi, 7 x 8 cm gel size with notched plate and back plate, spacer (1.0 mm and 1.5 mm) and comb (1-.0 mm and 1.5 mm for 8-10 well), single screw clamps based casting stand to exert uniform pressure along the entire length of glass plates and leak proof system; Central cooling core can be connected to tap water or a cooled recirculating bath, or filled with coolants	1 set	2000.00
13	Semi-Dry Blotting apparatus	Modular system; Should hold the gel size of up to 7.5x10 cm.; Should be compatible with the mini-SDS-PAGE gel apparatus; Should include all the accessories required for Western blotting including buffer tank, buffer cooling unit, electrode module, gel holder cassette, fiber pad and lid with power cables; Should have the capacity to run two mini gels simultaneously.; Should come with Color coded cassettes and electrodes to ensure proper orientation; Should come with cooling unit. Power supply: single phase, 220 $\pm$ 20V and 50HZ	1 set	1000.00
14	Micropipettes	Variable, Fully autoclavable, single channel; Range: 0.1-10 $\mu$ l, 2-20 $\mu$ l, 10-100 $\mu$ l, 20-200 $\mu$ l, 100-1000 $\mu$ l; Accuracy: $\pm 1.0\%$ ; Precision: < 0.2- 1.0. Should be supplied with micropipettes stand.	20 (four from each range)	2000.00
15	Refrigerator (4°C)	Double Door; 330-360Ltr, Frost free, Inverter compressor; Temperature: Storage compartment: 0-4 °C, Freezer compartment upto -5 °C to -20 °C, Convertible, Frost Free;Power supply: single phase, 220 $\pm$ 20V and 50HZ	2	1500.00



16	Compound light Microscope (binocular)	Body-Interchangeable, inclined Binocular body, 360° rotatable head; Eyepieces- Highest quality 10X wide angle antifungus field eyepiece; Objectives-Parfocal, antifungus coated 4x, 10x, 40x and 100x (oil immersion); With plan-achromatic correction; Stage: Horizontal mechanical stage preferably 100x140mm with fine vernier graduations designed with convenient coaxial adjustment for slide manipulation preferably through 30 x 70 mm; Sub stage-Abbe condenser focusable, continuously variable iris diaphragm; Illuminator-Built-in LED light source with white light; Power supply: single phase, 220±20V and 50Hz; Dust cover and immersion oil must be provided.	2	2000.00
17	Laminar airflow (4ft)	Laminar Cabinets with high efficiency particular air (HEPA) filters up to 0.3 Microns; Working area 4 ft x 2 ft x 2 ft stainless steel Table Top; Blower fitted with 1/4 HP Motor, with RPM 1200 to 1400, double filter, Pre-filters made of high-grade nylon Net fixed in S.S. frame for first Stage air purification, through blower system and Closed Inner Chamber fitted with HEPA having very accurate performance rate of air filtration, rated 99.99%, resulting in ceasing all air bore molecule of particle upto 0.3 micron in working Area; Laminar Airflow Cabinets illuminated by fluorescent light and also fitted with UV Germicidal lamp for sterilization; Fitted with Acrylic and transparent Front Door; Fitted with Manometer for measurement of HEPA Filters Choking system; Fitted with brass Cock for Gas and vacuum Connection. Power supply: single phase, 220±20V and 50Hz.	2	3000.00
18	Weighing balance (Low weight range)	Digital, internal/external calibrated, micro processor based, Weighing range- 1mg to 200 gm; Readability- 1 mg; Weighing pan- stainless steel of minimum dimension 80mm X 80mm; Display- Backlit LCD display; Breeze shield; Tare across weight ranges; Overload indication; Auto shut off after 1 min of inactivity; Power supply: single phase, 220±20V and 50Hz.	2	1600.00

19	General lab centrifuge-I	Non-refrigerated centrifuge with angular rotor for 12 x 1.5 ml and 2 ml capacity microfuge tubes; Maximum RPM- 14000 or at least 16000 g; Can hold up to 12-18 microfuge tubes in a single run in a fixed angle (45 <sup>0</sup> ) rotor; Timer- up to 99 min; Microprocessor controlled Digital display of speed and time indicator; Safety lid lock; Power supply: single phase, 220±20V and 50Hz.	1	800.00
20	General Lab Centrifuge-II	Non-refrigerated centrifuge with angular rotors for 12 x15ml and 6 x 50 ml capacity tubes; Maximum RPM- 5000 or at least 3500 g; Can hold up to 12 x 15 ml tubes in a single run in a fixed angle (45 <sup>0</sup> ) rotor; Timer- up to 99 min; Digital display of speed and time indicator; Safety lid lock; Power supply: single phase, 220±20V and 50Hz.	1	600.00
21	Orbital Shaking Incubator	Double walled, inner chamber made of stainless steel sheet and outer chamber made of steel sheet with matt finish; Insulation with high grade PUF; Air circulating fan to keep the temperature uniformity inside the unit; Microprocessor controlled temperature and shaking speed display (LCD or equivalent) cum controller; Temperature range- 5 <sup>0</sup> C- 55 <sup>0</sup> C; Double door system, with one transparent sheet door and another metal insulated door; Illumination lamp and UV lamp inside the chamber; The lower most chamber of the above unit shall contain the orbital shaker with maximum 250 rpm; Capacity of shaker 36 x 150 ml or equivalent; High/Low temperature safety cutoff and alarm; apacity- Minimum 250 litres; Platform dimension- minimum 45 cm X 60 cm; Power supply: single phase, 220±20V and 50Hz.	1	2500.00
22	BOD Incubator	Capacity: ~100 Liters; Inner Chamber Dimension (mm): 450X450X450; Outer body made of thick mild sheet (power coated); Double walled construction with 2.5” gap filled with best quality glass wool ; Inner chamber: Stainless steel; Temperature: 5 °C above ambient to 80°C ± 1°C fitted with microprocessor based PID electronic digital temp. controller cum indicator; Heating element	1	1000.00

		location: at the bottom and two sides; Other accessories: Air circulating fan, temp controller knob, perforated shelved; Power supply: single phase, 220±20V and 50Hz.		
23	Water bath (Shaking)	Capacity: 15-25L; Digitally controlled for temperature (25°C to 95°C), Digital Temperature Indicator cum Controller with precise accuracy of ±1°C; Shaker: shaking rack with 12 holders at least for 100 ml flask, Orbital motion with speed 40-180 rpm, stroke length- 25 mm, Stainless steel, water resistant, water drainage valve; Power supply: single phase, 220±20V and 50Hz.	2	2000.00
24	Water bath	Double walled, outer mild steel sheet, epoxy coated, stainless steel inner chamber; Inner chamber dimension: 300X250X100 mm; Stainless steel top with holes and concentric rings; Water overflow arrangement; No of holes: 6; Temperature control by digital temp. controller cum indicator; fitted with on/off switch; Power supply: single phase, 220±20V and 50Hz.	1	500.00
25	Hot-air oven	Memmert type; Inner Chamber Dimension (Minimum): 450X600X450 mm; Stainless steel Inner chamber; Outer body: Thick mild steel sheet with powder coating; Double walled construction with 2.5" gap filled with best quality glass wool. Temp. range from 5°C above Ambient to 250°C; Microprocessor based PID electronic digital Temp. Controller cum Indicator; Heating element location: at the bottom and two sides; Fitted with Air circulating fan, temp controller knob, there perforated shelves; Power supply: Single phase, 220±20V and 50Hz.	2	1600.00
26	Stereozoomic microscope with camera	Trinocular, C- mount, Magnification- 0.65X to 4.5X; Eye piece- wide field, 10X, 20X and 25X; Zoom ratio: 1:7 to 1:10; Illumination: Halogen/ Fluorescence/ LED; Additional dual LED illuminator (6W each); To be supplied with Adapter for Camera; Digital Microscopic colour camera, 10 MP, progressive scan, ½.3" sensor; Pixel size: 1.67 x 1,67 Fps; option for static (3200 x 1800) and dynamic (1920 X 1080) resolution.	1set	3000.00

		All camera specifications such as: pixel count and resolution, sensor size, binning, FPS@ max resolution, exposure etc. should be clearly mentioned in the quote; Power supply: Single phase, 220±20V and 50Hz.		
27	Plant growth chamber	Growth chamber of at least 16-20 cubic feet (300-350L) volume for growth of plants at specific environmental conditions; Microprocessor controlled digital display and controller for monitoring environmental parameters such as humidity, light and temperature; Integrated with audio visual alarm systems; Must be provided with double glass peep windows for monitoring without opening the door; Adjustable shelves (3-4); Temperature range- 5 <sup>0</sup> to- 45 <sup>0</sup> C; Humidity range- 40% to 90%; Light intensity up to 12000 Lux with control (Four Side); Option for UV light (at least two side) Power supply: Single phase, 220±20V and 50Hz.	1	4000.00
28	Dry bath	Temperature range from ambient to 120 <sup>0</sup> C with a heating rate < 20 min for 5 <sup>0</sup> C-100 <sup>0</sup> C; Temperature increment: 0.1 <sup>0</sup> C; Temperature Uniformity ≤ ± 0.5 <sup>0</sup> C; Temperature Accuracy ≤ ± 0.5 <sup>0</sup> C; Places for holding 1.5 ml and 2 ml microfuge tubes Power supply: Single phase, 220±20V and 50Hz.	1	800.00
29	Ice Flaker	Stainless steel body and reentering door which assures an easier accessibility to ice chamber Stainless steel cabinet properly insulated. Temperature: -5 <sup>0</sup> C to -8 <sup>0</sup> C; Minimum 25kg bin capacity; More than 50 kg/day production; Auto cutoff on unavailability of water supply; Fully automatic; Power supply: Single phase, 220±20V and 50Hz.	1	2000.00
30	Rocker	Two tiered rocking platform shaker with platform that can hold up to 5kg of load; Platform dimension minimum 30 X 30 cm Rocking speed range- 10-50 bit min <sup>-1</sup> ; Display for time and speed; Timer up to 99 hrs 99 min Power supply: Single phase, 220±20V and 50Hz.	1	600.00

31	pH meter	Large screen display with atleast pH and temperature readings; pH range – 0.0 to 14.0 (Accuracy limit $\pm 0.01$ pH); Calibration point: upto 3 (pH 4.0, 7.0, 10.0); Temperature Range: 0-100°C (ATC), 3-in-1 pH electrode with connector and cable and integrated with electrode stand with swivel arm. Should be provided with standard electrolyte solution (one set); Power supply: Single phase, 220 $\pm$ 20V and 50Hz.	2	600.00
32	Vortex mixer	Vortex mixer with heavy metal base and rubber feet to prevent shaker movement; Speed range-up to 3000 rpm (with variable speed control); Run type- Continuous and touch operation; Universal Holder/Spare cup attachment/Single cup head for microfuge tube and test tube. Power supply: Single phase, 220 $\pm$ 20V and 50Hz.	2	400.00
33	Magnetic stirrer with temp control	Magnetic stirrer cum hot plate made off chemical resistant stainless steel with temperature control and display; dimension of plate: 12 X 12 cm; Speed range- 100 to 1000 rpm: Maximum stirring capacity- 2.0 lt; Heating capacity 300W; Stirring and temperature regulating knob; should be provide with one set of magnetic bullets; Power supply: Single phase, 220 $\pm$ 20V and 50Hz.	2	600.00
34	Microwave oven	Microwave oven of 25-30 lt volume; with Soft/one touch control panel; Microprocessor based Solo and grill; Power supply: Single phase, 220 $\pm$ 20V and 50Hz	1	200.00
35	Haemocytometer	Scratch resistant glass material Depth- 0.100mm to 0.0025mm <sup>2</sup>	4	400.00
36	Compound light microscope (monocular)	Lamp- halogen/LED bulb; On/Off switch with light intensity control; Rectangular stage with dimension 120X 140 mm; Eyepiece- monocular WF10X/ 15X; Objective- Achromatic, 4X, 10X, 40X, 100X; Carrying case must be provided; Power supply: Single phase, 220 $\pm$ 20V and 50Hz	3	600.00
37	Bacteriological Incubator	Memmert type; Double walled, inner chamber made of stainless steel sheet and outer chamber made of steel sheet with matt finish/ powder coated; Insulation with high grade glass-wool or PUF; Air circulating fan to keep the	1	700.00

		temperature uniformity inside the unit; Temperature controlled by digital temperature indicator cum controller and L shaped Thermometer; Temperature range- 5 <sup>0</sup> C above ambient to 60 <sup>0</sup> C; Double door system, with one transparent sheet door and another metal insulated door; Illumination lamp inside the chamber; option for UV lamp for sterilization and air ventilation; Dimension- 600 (L) X 900 (H) X 600 (W) mm; Power supply: Single phase, 220±20V and 50Hz		
38	Microcentrifuge	Rotor for 12X 1.5/2.0 ml microfuge tubes and 8 x 0.2 ml PCR strips; RPM- upto 13000 and RCF- upto 10000xg. Timer: pulse and upto 30 min; On/Off switch; Digital display for RPM/RCF and time; Should have safety lid protection; Power supply: Single phase, 220±20V and 50Hz	2	500.00
39	Visible Spectrophotometer	Micro-controller based; %T, Abs, Conc. & K factor measuring modes; Digital Wavelength; Range: 340 – 900 nm; Wave length accuracy: ± 1-2 nm, Wave length repeatability: ±0.5-1nm, Photometric readout – 4 Digit LED; Bandwidth: 5-10 nm; Single/multi Position 20/50 mm Cuvette Holder; Power supply: Single phase, 220±20V and 50Hz	2	2000.00
40	ELISA Reader (Plate)	Microplate absorbance reader, Wave length range: 400-750nm, photometric range upto 3.5 OD, Accuracy: ± 0.01; resolution: 0.001OD; Filter wheel: 8 place; Duration: upto 999 sec; USB interface or suitable interface for connection to PC; Memory: 50 protocols; Power supply: Single phase, 220±20V and 50Hz	1	4000.00
41	Liquid Nitrogen Container	20 Litre; Hoding time: upto 50 days at room temeperature; Tank is made up of metal with insulation and vacuum jacketed	1	500.00
42	Respirable Dust Sampler	Particulate Sampling / Separation: Cyclonic separation of dust into fractions of < 10 µm and > 10 µm.; Heavy Duty Blower: Brushless; Flow Rate: 0.9 – 1.4 m <sup>3</sup> /min free flow ;Filter Holder: Aluminium Casting with fine finished rubber gasket; Sampling Time (maximum): 28 hrs; Time Totalizer: 0 – 9999.99 hrs <b><u>Gaseous Sampling Attachment:</u></b> Thermo-electrically cooled (15°C) external attachment with 04 impinger tubes; Special	1	2000.00

		<p>Silica-gel filter tubes to remove entrained particulates &amp; moisture; Improved valve design maintains constant flow rate; Flow Rate: 0.2 to 2 LPM; Least count 0.05 LPM; Flow Control: Four inlet and one outlet with built in needle valves for flow control of each unit; Sampling Train: 4 Nos. of 35ml Borosilicate glass impinges.</p> <p>Power supply: Single phase, 220±20V and 50Hz</p>		
43	Fine Particulate Sampler	<p>Particle Size: Omni-directional air inlet with PM 10 separation through an impactor followed by PM 2.5 separation through a WINS Impactor; Sampling rate: Constant sampling rate of 1m<sup>3</sup>/hr unaffected by voltage fluctuation and filter choking maintained by critical orifice system; Filter Media: 47 mm diameter Teflon filter membrane; Sample Volume: Dry Gas meter for recording the total air volume sampled;</p> <p>Power supply: Single phase, 220±20V and 50Hz</p>	1	3000.00
44	EC/TDS Meter	<p>Micro controller based; Cond. Range : 0.1 µS – 100 mS; Cond. Resolution : 0.001 µS; TDS Range : 0.1 ppm – 100 ppt; Temperature : 0 °C – 100 °C (Auto / Manual); Resolution: 0.1°C; Automatic temperature compensation with sensor; Cell Constant: 0.1 – 5.0; Readout : 7 digits LED (3 digits for Temp. and 4 digits for Cond./TDS); Accessories: Conductivity Cell, Temperature Probe, Stand and Clamp</p> <p>Power supply: Single phase, 220±20V and 50Hz</p>	1	500.00
45	Flame Photometer	<p>Mode of operation: Microcontroller controlled automation; No of elements / filters – 04 (Na, K, Li, and Ca); External Calibration: upto five point; Averaging time: 2 – 15 seconds; Options to store frequently used measurement setups; Option for restandardisation with single standard; Calibration method: With Low concentration mode and high concentration mode, With linear mode or quadratic curve fitting; Option for data storage and display (Max. results storage: 500); 20-character, 4-line alphanumeric LCD readout for adequate user interfaces; Built-in real time clock for date and time of analysis; Option for printer port, batch</p>	1	1200.00

		<p>samples in the memory (500 max); Air compressor with built-in air regulator and air filter; Operating air pressure: 0.45 kg / cm<sup>2</sup>; Automatic flame ignition (fuel type: LPG) Power supply: Single phase, 220±20V and 50Hz</p>		
46	COD Digestion Apparatus	<p>No of cavities: Up to 15 (to accommodate 40 mm dia tubes), Outer body made of thick mild sheet (power coated), Double walled construction with 2.5” gap filled with best quality glass wool, Inner chamber (inside the hole): Cast iron; Maximum Temperature: 280 – 300 °C; Heating type: Electric heating; PID temp controller cum indicator to be placed on the front panel of the instrument, timer to be fixed on the same; to be supplied with five Digestion set/assembly. Power supply: Single phase, 220±20V and 50Hz</p>	1	800.00
47	Platform (Rotary) Shaker	<p>Platform size (minimum): 425mm X 425mm; Speed display: Digital RPM and Timer options; Speed range: Up to 300 RPM (with option to set the required RPM); Base assembly: Heavy mild steel ; Platform with rubber gasket: 32 capacities for 100 ml flask, 16 capacity of 250/500 ml flask; Flask holders for 100ml, 250ml and 500ml should be given Power supply: Single phase, 220±20V and 50Hz</p>	2	1200.0
48	Vacuum pump with membrane filtration assembly	<p><u>Vacuum Pump:</u> Max. Flow: 15 ltr/min; Max. Vacuum: 27 inch of Hg; Max. Pressure: 35 Psi; Power supply: Single phase, 220±20V and 50Hz <u>Filtration Assembly:</u> Filter size: 47 mm dia; Effective Filtration area: up to 10 cm<sup>2</sup>; Filter Flask Capacity :1000 ml; Funnel Capacity: 300 ml; Clamp: Aluminum clamp with Spring type</p>	1	500.0
49	Ultra Sonicator (bath)	<p>Tank capacity: 1.5 ltr; Built-in time (0-15 minutes); Tank Size (Minimum): 225X125X60 mm; Stainless Steel Outer and inner body; Stainless Steel Lid; Ultrasonic Generator: Frequency: 30±3 khz; Ultrasonic power watts: 50; Temperature control: By cut off thermostat accuracy ±3°C preset at 60°C; Power supply: Single phase, 220±20V and 50Hz</p>	1	400.0



50	Hot Plate	Top Type: Rectangular and made of cast iron; Plate Dimension: 45 cm X 30 cm; Fitted with Temperature and Energy regulators; Max. Temperature: 300 °C; Heating coil to be placed under the plate (covering the whole plate area) Power supply: Single phase, 220±20V and 50Hz	1	200.0
51	Muffle Furnace	Muffle Size (W x H x D): 100 x 100 x 225 mm (minimum); Muffle type: Ceramic muffle to be wounded by A-1 wire, all sides to be fitted with ceramic fiber insulation; Max temperature: 1100°C, working temperature: upto 900°C Digital temp. controller cum indicator to be fitted on the front (top of the instrument) with two pilot lamps, one pyrometer, thermocouple, silver thermal fuse, Body made of thick PCRC sheet (outer casing) with powder coating Power supply: Single phase, 220±20V and 50Hz	1	600.0
52	Nephelometer	Micro controller based; Range : 0 – 1000 NTU (Automatic); Readout : 2 Line 16 Character LCD; Data storage : Calibration & Data Stored in Memory Power supply: Single phase, 220±20V and 50Hz	1	400.0
53	Refractometer	Type: Hand held; Measurement range: 0 – 100 % salinity; Accuracy: 1% salinity; Scale division: 1% salinity	1	300.0
54	Heating mantle (six mantle set, with clamps to hold condensers)	To be made of knitted glass yarn, heaters to be fitted beneath it for providing uniform heating of flasks upto 400 °C; Mantles are to be fitted in a nicely painted sheet metal case; Insulation type: glass wool insulations; Accessories: Individual Energy regulator, indicator and a cord; Flask capacity: 500 ml (maximum); No. of control: 06 (1200 watts) with clamps to hold condensers; Power supply: Single phase, 220±20V and 50Hz	1	300.0
55	Kjeldhal Digestion Unit	Heating box and fume duct; 500 watts heaters to be 3-5 inch inches apart; Side clamps with adjustable height; Unit with individual energy regulators for 3 Tests with 3X500ml flasks. Accessories: Required glass digestion and distillation assembly for the same (3 sets); Power supply: Single phase, 220±20V and 50Hz	1	300.0

56	Portable Autoclave	Portable Sterilizer; Capacity: 15-20 lts; Working temperature: 100-150 °C; Operating Pressure: 15-18 Psi; Body material: Aluminum; Safety: CE Marked, supplied with Pressure Valves; Lid Locks; Steam & vacuum release valve and display; Supplied with safety valve. Power supply: Single phase, 220±20V and 50Hz	2	300.0
57	Petrological binocular student microscope	Strain free Objectives 5x, 10x and 40x; Two paired Eyepieces WF10x (one cross hair) and H 15x, Polarizer, Analyzer, Bertrand lens and rotatable graduated Circular Stage centering type. Illumination with 6v -20 w Halogen Lamp built in the base; Optional attachable mechanical stage and Accessory plates Mica quarter wave and Red 1 <sup>st</sup> order analysis. Power supply: Single phase, 220±20V and 50Hz	1	400.0
58	Ore student microscope	Two polarizers and one analyzer; Strain free objectives 5x, 10x & 40x corrected for incident light and Two paired Eyepieces WF10x (One Cross hair) and H15x; Circular centering type rotatable stage graduated in 360 degree, vernier reading to 1/10 degrees; Built-in 6V 20W halogen lamp Illuminator with variable transformer built in the base; Epi Illuminator provided with 6V 20W halogen lamp & iris diaphragm; Optional attachable mechanical stage; Accessory plates Mica quarter wave and Red 1 <sup>st</sup> order, Quartz Wedge. Power supply: Single phase, 220±20V and 50Hz	1	800.0
59	Trinocular petrological/ore microscope	Ore/ Petrological microscope with trinocular head 360°C rotation and 45°C inclination; Built-in 1.25X auxiliary objective, Revolving quadruple nose piece, with center adjustable objective mounts; Polarizer, analyzer, Bertrand lens, and compensator plates (1/4 λ, 1 λ and Q plate) should be included; Eyepiece: WF10X (a pair of regular, and one with reticles, one with cross hair, and one with grids); Objective: - 4X, 10X, 25X, 40X, 63X, Plan 25X, Plan 40X, Plan 63X; Total Magnification: 50X to 750X; Stage: Circular, 150-200 mm, Rotatable ( 360° angle) with graduations, a vernier scale and	1	3500.0

		mechanical holder for the specimen; Polarizer for both transmitted light and reflected light; Camera: USB 3.0/2.0 Digital Micro-photographic Camera 5MP or 10MP and attachment. Power supply: Single phase, 220±20V and 50Hz		
60	UV-Transilluminator	20 x 20 cm platform; Dual, 302 and 365 nm; supplied with detachable UV blocking cover; supplied with UV scale and gel cutter. Power supply: Single phase, 220±20V and 50Hz	1	1200.0

### B. IT and Electronic Equipments

Sl.	Name of the Item	Specifications	Quantity	EMD amount (INR)
1	Computer Server	Server Type: Rack, Processor: Intel Xeon (8 Core 2.1GHz) Memory: 24 DIMM Slots 16GB (1x16GB), Storage: 1 TB, Power supply: 500W Flex Slot Platinum Hot Plug Low Halogen; I/O Slots: 2xPCIe (embedded); Keyboard, Mouse, LED Monitor (24"), Suitable server rack cabinet Power supply: Single phase, 220±20V and 50Hz	01	4000.00
2	Desktop PC	Intel Core i5 processor, 8 <sup>th</sup> generation, 2.8 GHZ, 4GB DDR RAM, 1 TB 7200rpm, SATA HDD, Window 10 operating system, UHD Graphics. LED Monitor with 19-20 inch screen. Power supply: Single phase, 220±20V and 50Hz	14 +01	13500.00
3	On line UPS-5 KVA with Battery	<b>Capacity:</b> 5000VA / 4000Watts; <b>Back up-</b> 1 Hour (Supplied with sufficient number battery 12V 64AH) and battery Rack; <b>Output slot:</b> four to six slot, 10-20A; Power surge protection; Power supply: Single phase, 220±20V and 50Hz	02	5000.00
4	Mojo Kit	Fully customizable with different gadgets including extra cameras- lights- displays- microphones- power banks- etc.; High-grade aluminum 37-52 mm hood, optics adaptor, lens cup and cold shoe tracks as well as stainless steel alignment bars; Compatible with ANY Smartphone model and any combination of external lights, microphones, monitors, power banks, lenses, hoods and more.; In action, the rig should be handheld,	01 set	600.00

		mounted on tripods or dollies or attached via suction cups; Additional kit of extensions: - Two 36 LED lights with USB charging cables; -Gun microphone with standard 3.5 mm jack, foam windshield and cold shoe snap mount; -Extra clamp holder with one more quarter-inch tightening bolt.		
5	Action Camera (Go-Pro)	4K 20MP high resolution sports cam – Pro and Real 4K 30fps video and 20MP photo resolution provided by 7 layers optical glass camera lens; 2” IPS 40meters waterproof camera –waterproof and dust-proof cases come with the accessories kit; Anti-shake with time-lapse&loop recording; Control freely with built-in wi-fi – Download the YUTUPRO app and connect with your camera. You can then operate the camera easily on your phone, like change settings, view photos or videos and share on your social media; Mounting accessories pack – Accessories pack mainly included 2 x 1350mAh batteries, USB battery charger, mounting kits, various strap and fixed base. The kit will meet different demands of outdoor sports	02	1000.00
6	Teleprompter	Dual monitor use; Mouse movement speed control; User control of scroll speed and smoothness using the hand control; designed for Microsoft windows; top to bottom scroll. Bottom to top scroll; reverse mirror text. Prompts in any window’s compatible language rich text or plain text format; font color/size selection; multiple font type & sizes per single line; page selection (next previous). Import world file.	01	5000.00
7	MAC System-PC	21.5-inch iMac with Retina 4K display: 3.4GHz quad-core Intel Core i5 (MNE02HN/A); Display: Retina 4K display, 21.5-inch (diagonal) Retina 4K display, 4096x2304 resolution with support for one billion colours, 500 nits brightness, Wide colour (P3); Processor: 3.4GHz quad-core, Intel Core i5 (Turbo Boost up to 3.8GHz); Memory: 8GB of 2400MHz DDR4 onboard memory; Storage1: 1TB Fusion Drive; Graphics: Radeon Pro 560 with 4GB of VRAM; Operating System: mac OS Sierra Power supply: Single phase, 220±20V and 50Hz	01	3000.00
8	Professional DSLR Camera (Full Frame) with you’re a	100%Viewfinder Coverage; CMOS sensor with impressive, high-resolution result; EOS full HD movie mode with movie service; 30	01	2500.00

		megapixel CMOS (APS-C) sensor; 14-bit A/D conversion; ISO 100-12800 (expandable to H: 25600)		
9	Fish Eye Lense with accessories	Filter size: 67mm; 1 Ultra-Low Dispersion (UD) lens reduces chromatic aberration throughout the zoom range; Rear focus system, high-speed CPU and improved AF algorithms provide high-speed auto focus; full time manual focus is also supported; 7-blade circular aperture for beautiful out-of-focus image	01	500.00
10	DSLR Mirrorless Gimble with accessories	Detachable handle: a2000 optional dual handle system allows you to use you're a2000 with two hands; Function button: these lightweight handles gives joystick and menu controls built into the hand grip, making it easy for you to change shooting modes; Easy carrying: the hand grips are neatly wrapped with anti-slip material that allows a firm grip at all times. This a2000 handles are also able to fold in half for easy storage	01	600.00
11	Senheiser-Cordless Mic Kit with accessories	Professional, large-diaphragm condenser microphone for unsurpassed audio quality; Ideal as main and support microphone for studio and live applications; Cardioid pickup pattern for outstanding sound source preparation and feedback rejection; Pressure-gradient transducer with shock-mounted capsule; Ultra-low noise, transformerless FET input eliminates low-frequency distortion; LED indicates phantom power operation; Swivel stand mount and transport case included; Ultra-rugged construction with metal die-cast body; Gold-plated 3-pin XLR output connector for highest signal integrity	01 set	1200.00
12	Studio Monitor Set with accessories	Two-way active monitor systems for multimedia workstations and keyboard monitoring; High-power woofers and tweeters powered provide a linear frequency response; Individual Volume controls for both Line inputs as well as Bass and Treble EQ controls; Optical and coaxial inputs to directly connect digital audio sources via S/PDIF interface; Two stereo analogue inputs featuring 1/8" TRS and stereo RCA connectors can be used simultaneously or mixed with a digital stereo source; Features 1/4" TRS headphone connector with auto-mute function easily accessible from the front panel; 2× Stereo Analog Inputs (TRS	01	1000.00

		and Stereo RCA Connectors); ¼-inch TRS Headphone Connector with Auto-mute Loudspeaker Function; 1/8-inch TRS and Stereo RCA Connectors		
13	Audio System with accessories	Wireless speakers, Functions: CD,DVD,USB,FM, Blue Tooth; Input-HDMI; Output-USB2.0/3.0, Microphone input; Sound System: Mega Bass, Dolby Digital; Playable Formats: mp3, mpeg4, xvid	01 set	1000.00
14	Audio Recorder with accessories	One-channel USB audio interface pack Condenser Microphone, Noise reducing system	01 set	500.00
15	Digital camera with accessories	SLR; 18 MP Camera; 1080p HD Video Recording; 22.3 x 14.9 mm, CMOS Sensor; 3 in, 1M dots, LCD Display; 1/4000 sec Max Shutter Speed; HDMI, TV-Out Picture Bridge, Microphone. Camera battery, charger and bag Wide strap, USB cable, software CD and Operation Manual	01	1000.00
16	Video Camera with accessories	Optical Zoom 20 x; Screen Size 3.5 Inches; Sensor Resolution 18.4 Megapixels; Video Capture Resolution 3840 x 2160 ; 16:9 screen recording	01	2000.00
17	21 inch Monitor	Size – 21 inch; Full HD; LED; Power supply: Single phase, 220±20V and 50Hz	01	5000.00
18	One way Mirror	Size: 6ft x 3ft ; Thickness: 8-10 mm; Tint – Neutral; Reflectance: Greater than 58%; Transmission: 3%; Fitted with PVC frame	01	500.00
19	Laser Printer	Monochrome laser printer, 20 ppm A4, One touch screen print, Hi Speed USB 2.0/3.0 Power supply: Single phase, 220±20V and 50Hz	06	500.00
20	LCD Projector	XGA projector, Projection system: 3LCD Technology; Colour Light output: 3300 Lumen; White Light Output: 3300 Lumen; Resolution 1024 x 768 pixel (1080p Full HD); Aspect: 4:3; Hardware interface: USB2.0 (A &B), Lamp hour: At least 10000 hour duration; Image size-30-300 inches: VGA in, HDMI in and composite in, wireless LAN; Power supply: Single phase, 220±20V and 50Hz	06	5000.00
21	Projector screen	In light 6-7 ft x 4-5 ft dia; 4:3 Universal wall pull down with auto lock facility, 1080p, Ultra HD-3D-4K-white	06	250.00

### C. Lab Furnitures:

Sl.	Name of the Item	Specifications	Qty	EMD(Rs)
1	Lab Table Centre	High quality table made up of <u>18 mm Laminated High density high moisture resistance (HDHMR) board of ISI standard (The Make should be clearly specified)</u> ; Size- 96 inch (L) x 48 inch (W) x 35	04	4000.00

		inch (H); <u>Table top: Granite (Black Galaxy 18mm); Top Back supported by 12 mm HDHMR board; Rest of the table was made up of 18 mm HDHMR sheet colour: either high land pine or Flowery wenge. Table should be with Four Drawer and Four cupboard (2 tier) with middle shelf (Size: width- 30 inch (inside to inside and depth-22 inch (inside to inside); Fitted with high quality Lock and other fittings; Should be provided with Two tier Chemical rack made up of 18 mm HDHMR sheet, size: 10 inch (w) x 54 inch (L) x 24 inch (H). Provision for electrical connection, computer connection and water line connection.</u>		
2	Lab Table Wall side	High quality table made up of <u>18 mm Laminated High density high moisture resistance (HDHMR) board of ISI standard (The Make should be clearly specified); Size- 96 inch (L) x 30 inch (D) x 30 inch (H); Table top: Granite (Black Galaxy 18mm); Top Back supported by 12 mm HDHMR board; Rest of the table was made up of 18 mm HDHMR sheet colour: either high land pine or Flowery wenge. Table should be with Two Drawer and Two cupboard (2 tier) with middle shelf (Size: width- 30 inch (inside to inside and depth-22 inch (inside to inside); Fitted with high quality Lock and other fittings; Provision for electrical connection and computer connection</u>	08	4000.00
3	Lab stool (Bar stool type)	Ergonomically designed with back support and hydraulic system for sitting height adjustment (16 inch to 25 inch), Made up of high quality metal/chrome with heavy chrome base, stainless steel coated and foot rest. Both seat and back support is either high quality PVP or metal embodied with 28 density primo foam and leatherette cover; Seat Size: 16-18 inch x 16-18 inch.	24	1000.00
4	Computer Table	High quality table made up of <u>18 mm Laminated High density high moisture resistance (HDHMR) board of ISI standard (The Make should be clearly specified); Size- 96 inch (L) x 24 inch (D) x 30 inch (H); Entire table was made up of 18 mm HDHMR sheet colour: either high land pine or Flowery wenge. Table should be with provision for three slot for key board and Three CPU/ UPS slot (2 tier) of standard (i.e. 12 inch (w) x 20 inch (D) x 21 inch for CPU and 12 inch (w) x 20 inch (D) x 6 inch for UPS); Provision for electrical connection and computer cable connection for three desktop</u>	6	2000.00

## Chapter-V: Price Schedule (FOR Price BID only)

The Price bid should be submitted in a sealed envelope mentioning the name of the Item as per the following format. For each item the price bid should be sealed separately.

### FORMAT-VIII FOR PRICE BID

**(Should be submitted in the letter head/pad of the bidder/firm with seal and signature)**

Ref. No. \_\_\_\_\_

Date: \_\_\_\_\_

To  
The Registrar, Khallikote University  
Berhampur-760001

Sub: Financial Bid for \_\_\_\_\_ (Name of the Equipment/ Item)

Reference: Your Quotation Call notice no. \_\_\_\_\_

Sir,

In response to above quotation, please find attached here with the best Financial quote of the \_\_\_\_\_ (Equipment/ Item) submitted here with for consideration.

Sl. No.	Name of the Equipment/ Item	Make: Model: Year of the Model:	Cost (Foreign currency and INR as applicable) Unit Price	Qty.	Total Price
	<u>Item</u>				
	Accessories				
	Taxes				
	Others				
	<u>Grand Total Price</u>				
	<u>Warranty</u>				
	<u>AMC</u>				
	<u>Others if any</u>				

**(Follow the instructions carefully while filling the quote; Mention the cost of accessories and Tax component separately)**

Yours Faithfully

Place:

Name: \_\_\_\_\_

Date:

For and on Behalf of M/s \_\_\_\_\_

(Name of the Bidder with Seal)



## Chapter-VI: Contract forms (Formats for Technical Bid)

### FORMAT-I (To be submitted with Technical Bid)

#### MANUFACTURER'S OFFER FORM

(To be submitted by manufacturer in a letter head in case the bidder is the manufacturer)

Ref. No. \_\_\_\_\_

Date: \_\_\_\_\_

To  
The Registrar, Khallikote University  
Berhampur-760001

Sub: Technical Bid for \_\_\_\_\_ (Name of the Item)  
Reference: Your Quotation Call notice no. \_\_\_\_\_, dated \_\_\_\_\_.

Dear Sir/ Madam,

1. We \_\_\_\_\_ (Name of the Manufacturer/Company) declare that we are the original manufacturer of the above equipment \_\_\_\_\_ (name, Make and model). Having registered office at \_\_\_\_\_

\_\_\_\_\_  
(Full address with Telephone number, Fax number, Email and website) and having factory at \_\_\_\_\_ (Factory Address).

2. No company or firm or individual have been authorized to bid, negotiate and conclude the contract in regard to this business against this specific bid reference no. \_\_\_\_\_, dated \_\_\_\_\_ of Khallikote University, Berhampur.

3. We hereby declare that we are willing to provide guarantee/warranty and after sales service during the period of warranty and AMC as per the above bid and also supply spares, accessories, reagents and consumables for period atleast for six years.

4. We also hereby declare that we have the capacity to manufacture and supply, install and commission the required quantity of equipments/ items bidded within the stipulated time.

Yours Faithfully

Place:

Name: \_\_\_\_\_

Date:

For and on Behalf of M/s \_\_\_\_\_  
(Name of the Manufacturer with Seal)

*Note: This letter of authority should be on the letterhead of the manufacturing concern and signed by a person competent and having power of attorney to bind the manufacturer*

**FORMAT-II (To be submitted with Technical Bid)****MANUFACTURER'S AUTHORIZATION FORM**

(To be submitted by manufacturer in a letter head in case the bidder is the authorized agent or Dealer or equivalent)

Ref. No. \_\_\_\_\_

Date: \_\_\_\_\_

To  
The Registrar, Khallikote University  
Berhampur-760001

Sub: Technical Bid for \_\_\_\_\_ (Name of the Item)  
Reference: Your Quotation Call notice no. \_\_\_\_\_, dated \_\_\_\_\_.

Dear Sir/ Madam,

1. We \_\_\_\_\_ (Name of the Manufacturer/Company) declare that we are the original manufacturer of the above equipment \_\_\_\_\_ (name, Make and model). Having registered office at \_\_\_\_\_

\_\_\_\_\_ (Full address with Telephone number, Fax number, Email and website) and having factory at \_\_\_\_\_ (Factory Address).

2. We do hereby authorize M/s \_\_\_\_\_ (Name and Address of the Authorized agent/ Dealer/Bidder) to submit the bid and subsequently negotiate and sign the contract with Khallikote University against the above bid.

3. No company or firm or individual other than M/s \_\_\_\_\_ have been authorized to bid, negotiate and conclude the contract in regard to this business against this specific bid reference no. \_\_\_\_\_, dated \_\_\_\_\_ of Khallikote University, Berhampur.

4. We also hereby undertake to provide guarantee/warranty and after sales service during the period of warranty and AMC as per the above bid and also supply spares, accessories, reagents and consumables for period atleast for six years.

4. We also hereby declare that we have the capacity to manufacture and supply, install and commission the required quantity of equipments/ items bid within the stipulated time.

Yours Faithfully

Place:

Name: \_\_\_\_\_

Date:

For and on Behalf of M/s \_\_\_\_\_  
(Name of the Manufacturer with Seal)

*Note: This letter of authority should be on the letterhead of the manufacturing concern and signed by a person competent and having power of attorney to bind the manufacturer*

**FORMAT-III (To be submitted with Technical Bid)****ANNUAL TURNOVER STATEMENT OF BIDDER**

(To be submitted by the Bidder in their letterhead)

Ref. No. \_\_\_\_\_

Date: \_\_\_\_\_

To  
**The Registrar, Khallikote University**  
**Berhampur-760001**

**Sub: Annual Turnover for last three financial years****Reference: Your Quotation Call notice no. \_\_\_\_\_, dated \_\_\_\_\_.**

Dear Sir/ Madam,

We would like to affirm you that the Annual Turnover for the last three financial years of M/S \_\_\_\_\_ who is manufacturer/ dealer/ distributor/importer/supplier of the laboratory equipments/ office equipment/ items are given below and certified the annual turnover statement is true and correct. We are also enclosing the supporting document with respect to our claims.

Sl. No.	Financial Year	Annual Turnover in INR (Both in Words and Figures)	Supporting Documents
1	2015-16		
2	2016-17		
3	2017-18		
TOTAL			
Average per Year			

Yours Faithfully

Place:

Name: \_\_\_\_\_

Date:

For and on Behalf of M/s \_\_\_\_\_

(Name of the Bidder with Seal)

*Note: The consolidated audited account statement preferably by a Chartered Accountant/ Auditor should be submitted as supporting documents.*

**FORMAT-IV (To be submitted with Technical Bid)****TECHNICAL BID WITH MAKE, MODEL & DETAILED SPECIFICATIONS  
(Should be submitted in the letter head/pad of the bidder/firm with seal and signature)**

Ref. No. \_\_\_\_\_

Date: \_\_\_\_\_

To  
**The Registrar, Khallikote University**  
**Berhampur-760001**

Sub: Technical Bid for \_\_\_\_\_ (Name of the equipment)

Reference: Your Quotation Call notice no. \_\_\_\_\_

Sir,

In response to above quotation, please find attached here with the technical specifications of the \_\_\_\_\_ (item) submitted here with for consideration.

Technical specifications:

Sl. No.	Name of the Equipment/ Item	Make: Model: Year of the Model:	Detailed Specifications	Warranty

(The information should be supported by the Leaflet or Booklet containing the Make, Model and Specifications)

Yours Faithfully

Place:

Name: \_\_\_\_\_

Date:

For and on Behalf of M/s \_\_\_\_\_  
 (Name of the Bidder with Seal)

**FORMAT-V (To be submitted with Technical Bid)****TECHNICAL COMPLIANCE FORM (To be submitted by the bidder/ Firm)****For each equipment this form should be submitted separately in the bidders letter head**

Ref. No. \_\_\_\_\_

Date: \_\_\_\_\_

To  
**The Registrar, Khallikote University**  
**Berhampur-760001**

Sub: Technical Compliance for \_\_\_\_\_ (Name of the Equipment)

Reference: Your Quotation Call notice no. \_\_\_\_\_

Sir,

In response to above quotation, please find attached here with the technical compliance of the \_\_\_\_\_ (item) submitted here with for consideration.

<b>Name of the equipment:</b>		
<b>Make &amp; Model:</b>		
<b>Year of manufacture:</b>		
<b>Features/ specifications as per the tender (Para wise)</b>	<b>Bidders Compliance</b>	<b>Technical Brochure where the compliance is mentioned</b>
<b>Percentage of compliance:</b>		

(The information should be supported by the Leaflet or Booklet containing the Make, Model and Specifications)

Yours Faithfully

Place:

Name: \_\_\_\_\_

Date:

For and on Behalf of M/s \_\_\_\_\_

(Name of the Bidder with Seal)

**FORMAT-VI (To be submitted with Technical Bid)****DETAILS OF EMD SUBMITTED**  
**Should be submitted in the bidders letter head**

Ref. No. \_\_\_\_\_

Date: \_\_\_\_\_

**To**  
**The Registrar, Khallikote University**  
**Berhampur-760001**Sub: Submission of EMD for \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ (Name of Equipment and/or item)  
Reference: Your Quotation Call notice no. \_\_\_\_\_

Sir,

In response to above quotation, please find attached here with details of EMD submitted for \_\_\_\_\_ number of items/ equipments as detailed below for which we have submitted the bids for consideration.

Sl. No.	Name of the Equipment/ Item	EMD amount to be deposited (INR)	Instrument No., Name of the Bank and Date

Yours Faithfully

Place:

Name: \_\_\_\_\_

Date:

For and on Behalf of M/s \_\_\_\_\_  
(Name of the Bidder with Seal)

**FORMAT-VII (To be submitted with Technical Bid)****CHECK LIST**

**Should be submitted in the bidders with Signature and Seal; The documents has to be arranged as per the order mentioned in the checklist for ease scrutiny.**

**Name of The Bidder:** \_\_\_\_\_

**Reference:** Your Quotation Call notice no. \_\_\_\_\_

Sl.	Name of the Document(s)	Whether Submitted or not	Page no.	Office Use by KUB
1	Check List (Format-VII)			
2	Cost of the Tender fee Rs. 1050.00			
3	Cost of EMD for an amount (as per Chapter-II/IV) of _____; DD No. _____, date: _____; Bank details: _____			
4	Technical Bid as per the Format-IV			
5	Technical Brochure (Printed)			
6	Technical Compliance as per Format-V			
7	Details of the EMD amount as per Format-VI			
8	Manufacturers Form (Format-I: Manufacture is the bidder)			
9	Letter of Authorization (Other than manufacturer) as per Format-II			
10	Financial bid As per the Format-VIII mentioned in Chapter-IV (Price Schedule)			
11	Annual Turnover Statement For Three FYs (2015-16, 2016-17, 2017-18) as Per the Format-III			
12	Self attested Up-to-date ITCC for FY 2016-17 and 2017-18			
13	Self attested Up-to-date GST return filed for for FY 2017-18			
14	Self attested Copy of GST registration Certificate			
15	Self Attested Copy of PAN			
16	Undertaking as per the Format-IX (If Selected for supply the same should be submitted in non judicial stamp paper of hundred rupees only)			
17	Detailed Information of the Bidder, Manufacturer and their Service Centres/Engineers (Format-XI)			
17	Model Bank Guarantee Format For Performance Security (Format-X)			
	Others (if any)			

Yours Faithfully

**Place:**

**Name:** \_\_\_\_\_

**Date:**

**For and on Behalf of M/s** \_\_\_\_\_  
(Name of the Bidder with Seal)

**FORMAT-VIII FOR PRICE BID****Should be submitted separately for each item/Equipment****(Should be submitted in the letter head/pad of the bidder/firm with seal and signature)**

Ref. No. \_\_\_\_\_

Date: \_\_\_\_\_

To  
 The Registrar, Khallikote University  
 Berhampur-760001

Sub: Financial Bid for \_\_\_\_\_ (Name of the Equipment)

Reference: Your Quotation Call notice no. \_\_\_\_\_

Sir,

In response to above quotation, please find attached here with the best Financial quote of the \_\_\_\_\_ (Equipment) submitted here with for consideration.

Sl. No.	Name of the Equipment/ Item	Make: Model: Year of the Model:	Cost (Foreign currency and INR as applicable) Unit Price	Qty.	Total Price
	<b><u>Item</u></b>				
	<b>Accessories</b>				
	<b>Taxes</b>				
	<b>Others</b>				
	<b><u>Grand Total Price</u></b>				
	<b><u>Warranty</u></b>				
	<b><u>AMC</u></b>				
	<b><u>Others if any</u></b>				

**(Follow the instructions carefully while filling the quote; Mention the cost of accessories and Tax component separately)**

Yours Faithfully

Place:

Name: \_\_\_\_\_

Date:

For and on Behalf of M/s \_\_\_\_\_

(Name of the Bidder with Seal)



**FORMAT-IX (To be submitted with Technical Bid)****UNDERTAKING/ DECLARATION FORM**

**(Should be submitted in the letter head of the manufacturer/bidder/firm with seal and signature during submission of Technical Bid: If selected for supply the same should be submitted as affidavit before a notary public in non judicial stamp paper of hundred rupees only)**

Ref. No. \_\_\_\_\_

Date: \_\_\_\_\_

To  
The Registrar, Khallikote University  
Berhampur-760001

Sub: UNDERTAKING/ DECLARATION

Reference: Your Quotation Call notice no. \_\_\_\_\_

Equipment (s)/Items(s) quoted:

I/We \_\_\_\_\_ having my/ our office at \_\_\_\_\_ do declare that I/ we have carefully and meticulously read all the terms and conditions of this bid of Khallikote University, Berhampur for the supply of Equipments/ Items (As mentioned in Format-VI). The quoted unit price/ rate will remain valid for a period of Six months from the last date of submission of this bid. I will abide all the terms and conditions set forth in the bid document Reference No. \_\_\_\_\_, date. \_\_\_\_\_ of Khallikote University along with standard norms of Govt. of Odisha.

I/We do hereby declare I/we have not been de-recognized/ black listed by any State Govt./ Union Territory/ Govt. of India/ Govt. organization for supply of non-standard quality equipment(s)/ item(s) or non supply after obtaining the purchase order.

I/We agree that the Competent Authority of Khallikote University can forfeit the EMD and performance security deposit and black list me/us for a period of three years, if any information furnished by us proved to be false at the time of sacreening/verification/inspection and not complying with the term and conditions of the bid.

I/We \_\_\_\_\_ do hereby declare that I/ We will supply the equipment(s)/ Item(s), if recommended by the purchase committee, as per the terms and conditions of the bid document. The supplied equipment(s) will be/is installed and made fully operational, and no additional accessories or spares are required to make the equipment run.

I/We further declare that I/We have Service Centre in Odisha/ Eastern India (Head quarter: \_\_\_\_\_) with qualified service engineers to carry out the maintenance of the equipment(s) or item(s) offered within 48-96 hours.

Place:

Name: \_\_\_\_\_

Date:

For and on Behalf of M/s \_\_\_\_\_

Full Address: \_\_\_\_\_

(Name of the Bidder with Seal)

**Format-X (To be submitted along with Invoice)**

**MODEL BANK GUARANTEE FORMAT FOR PERFORMANCE SECURITY**

To  
**The Governor of Odisha.**

WHEREAS..... (name and address of the supplier) (hereinafter called "the supplier") has undertaken, in pursuance of contract no..... dated ..... to supply ..... (description of goods and services) (herein after called "the contract").

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of ..... (amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed thereunder or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until the .... day of ....., 20.....

Our.....\* (Name & Address of the .....\* branch) is liable to pay the guaranteed amount depending on the filing of claim and any part thereof under this Bank Guarantee only and only if you serve upon us at our .....\* branch a written claim or demand and received by us at our .....\* branch on or before Dt.....otherwise bank shall be discharged of all liabilities under this guarantee thereafter.

.....  
(Signature of the authorized officer of the Bank)

.....  
Name and designation of the officer

.....  
Seal, name & address of the Bank and address of the Branch

*\* Preferably at the headquarters of the authority competent to sanction the expenditure for purchase of goods or at the concerned district headquarters or the State headquarters.*

## **Format-XI (To Be Submitted With Technical bid)**

### **DETAILS OF THE BIDDER, MANUFACTURER & SERVICE CENTRE**

<b>GENERAL INFORMATION ABOUT THE BIDDER</b>						
<b>1</b>	Name of the Bidder:					
	Registered Address of the firm:					
	State:		District:			
	Telephone no. (code):		FAX:			
	Email:		Website:			
<b>CONTACT PERSON DETAILS</b>						
<b>2</b>	Name:		Designation:			
	Telephone No.: Mobile No.:		Email:			
<b>COMMUNICATION ADDRESS</b>						
<b>3</b>	Address					
	State:		District:			
	Telephone no.		FAX:			
	Email:		Website:			
<b>TYPE OF THE BIDDER/ FIRM (Please Tick in the Relevant Box)</b>						
<b>4</b>	Private Ltd.	<input type="checkbox"/>	Public Ltd.	<input type="checkbox"/>	Proprietorship	<input type="checkbox"/>
	Partnership	<input type="checkbox"/>	Society	<input type="checkbox"/>		<input type="checkbox"/>
	Authorized Dealer	<input type="checkbox"/>	Distributor	<input type="checkbox"/>	Others (Specify)	<input type="checkbox"/>
	Registration No. and Date of Registration					
<b>NATURE OF THE BUSINESS (Please Tick in the Relevant Box)</b>						
<b>5</b>	Original equipment/item Manufacturer		<input type="checkbox"/>	Authorized Dealer/ Importer		<input type="checkbox"/>
	Subsidiary of Original Manufacturer		<input type="checkbox"/>	Others (if any)		<input type="checkbox"/>
<b>KEY PERSONNELS DETAILS (Chairman, Director, CEO, MD, Managing Partner)</b>						
<b>6</b>	Name		Designation		Email	
	Name		Designation		Email	
<b>7</b>	<b>Whether any criminal case was registered against the company or any of the promoter and partners in the past</b>					Yes/ No
<b>8</b>	<b>a. Whether Registered under GST? : YES/ NO</b> <b>b. GST Registration Number: _____</b> <i>(Copy of the Registration Certificate should be submitted)</i>					

9	<b>PAN Number:</b> _____ <i>(Copy of the PAN card should be submitted)</i>
10.	<b><u>Details of existing Service Centre in Odisha or Eastern India:</u></b> <b>Name of the Service Centre:</b> _____ <b>Address of the Service Centre:</b> _____ _____ <b>Name of the Contact Person(s):</b> _____ <b>Telephone and Mobile No.:</b> _____ <b>Email:</b> _____ <b>FAX:</b> _____ (with code) <b>Website:</b> _____
11	<b>Bank Details of the Bidder:</b> <i>(The bidders have to furnish the bank details as mentioned below for the return of EMD and Payment toward the supply (If selected)</i> a. <b>Name (as mentioned in the Bank Account):</b> _____ b. <b>Bank Account number:</b> _____ c. <b>IFSC Code of the bank:</b> _____ d. <b>Name of the Bank and Branch:</b> _____ e. <b>Address of the bank and Branch:</b> _____ _____
12.	<b>Other relevant informations if any:</b>   
<b>Date:</b> _____ <b>Place:</b> _____	<b>Name:</b> _____ <b>For and on Behalf of M/s</b> _____ <b>Full Address:</b> _____  <b>(Name of the Bidder with Seal)</b>