

Shaheed Benazir Bhutto University



TENDER DOCUMENTS

For

**The Supply/Purchase of Furniture & Fixture, Office Equipments, Electric Installations,
Stationary for Store Section
& Lab Equipments/Chemicals etc for Different Departments in SBBU**

**SHAHEED BENAZIR BHUTTO UNIVERSITY,
MAIN CAMPUS SHERINGAL, DIR UPPER**



SHAHEED BENAZIR BHUTTO UNIVERSITY

Sheringal, Dir Upper, Khyber Pakhtunkhawa

Advertisement No. SBBU/Adv./Td/112-2019

TENDER NOTICE

Sealed Tenders are invited from the well established/reputed Firms/Companies/Suppliers, registered with Income tax/Sales tax Departments for the supply of the Lab Equipments, Chemicals & Furniture/Office Equipments etc.

TERMS & CONDITIONS: (Please read tender detail before apply)

1. The detailed BOQ/Specifications along with the terms and conditions have been set forth in the tender documents.
2. Tender documents can be downloaded from the web site of the University www.sbbu.edu.pk OR **PPRA** Web Site info@ppra.org.pk w.e.f. 23-01-2019 till 07-02-2019 (11.30AM) with payment of non-refundable fee of **Rs.1,000/-** per tender. The fee can be deposited in HBL Sheringal Branch or can be sent through bank draft from any HBL branch (ONLY), in favor of the Treasurer, Shaheed BB University, Sheringal or online deposit in A/c # 18787100000503 titles **Receipt Account** HBL Sheringal Branch, Dir Upper, KP.
3. Tenders shall be opened on **07-02-2019 at 12.00 Noon**, in the presence (not obligatory) of the contractors or their authorized agents in the office of the Convener, Purchase Committee of the University.
4. Only the manufacturers/firms/companies or its authorized distributors will be eligible to apply.
5. The single-stage –two envelopes procedure as per PPRA Rules, Govt. of Pakistan will be adopted. The interested parties should submit the bid(s) in a single package containing two separate envelopes marked as Technical Proposal and Financial Proposal.
6. The financial proposals of the technically qualified bidders will be opened / evaluated after one week.
7. The quotations must be accompanied with a call deposit of 2% of the quoted amount.
8. The suppliers/firms/manufacturers will not be allowed to sublet the work/contract/supply to another supplier/firm/manufacturer.
9. The interested parties who want to supply the furniture and fixture will provide samples on demand if technically qualified
10. The University shall upon request, communicate the bidder the grounds of rejection, but it is not required to Justify those grounds.
11. Errors and omissions, if any, shall subject to rectification by the University.

Convener Purchase Committee

Shaheed Benazir Bhutto University, Sheringal, Dir Upper

Ph. No. 0944-885405/0302-8395028, Fax. 0944-885805, Email- dayan@sbbu.edu.pk

TENDER DOCUMENT

**The Supply/Purchase of Furniture & Fixture, Office Equipments,
Printing of Stationary for Examination Section, Stationary for Store Section
& Lab Equipments/Chemicals etc for Different Departments in SBBU**

The proposals will be opened on 07-02-2019 at 12:00 Noon sharp in the Office of Convener Purchase Committee in the presence of the Purchase Committee under the chairmanship of the Convener Purchase Committee, Shaheed Benazir Bhutto University, Sheringal, Dir Upper.

Name of the Company / Dealer:

Address of the Correspondent:

Date: _____

Signature and Seal

Telephone No: _____

Fax No: _____

E mail: _____

Tender Fee Rs. 1,000/- only

Note:

- a. **Tenderer should read these conditions carefully and comply strictly while sending their tenders.**
- b. **If any discrepancy, error, or omission found in the tender documents; please contact Deputy Director Procurement on or before the closing date for Tender (0944-885405 or 0302-8395028).**
- c. **Purchase Committee shall upon request, communicate the bidder the grounds of rejection, but it is not required to justify those grounds. The decision of the Purchase Committee shall be final.**

1. General

- All Quotations should reach the undersigned within due date as specified in the advertisement only through registered post/Courier. By hand delivery will not be accepted.
- **The soft copy of quotations on a CD must be provided along with Hard copy or through email after financial bid opening.**
- Any cutting/ correction in bid will make quotation invalid.
- In case of quoting alternate prices, separate tender shall be purchased.
- Tenders forms shall be filled in ink or typed. No tender filled in pencil shall be considered.
- The bidder shall sign and stamp each page of the Technical and Financial Proposal.
- Rates shall be written both in words and figures. There should not be errors and / or over-writings. Corrections if any should be made clearly and initiated with dates.
- Quotations must be valid for **90 days** from the date of opening of tender.
- Only Manufacturers / Distributors / bona fide dealers of the goods shall give tenders. They shall, therefore, furnish necessary declaration along with documentary proofs for the same.
- Any bidder, interested in bidding for one or more items separately, is allowed to do so. However, preference will be given to bidder offering several items together.
- **The single-stage –two envelopes procedure as per PPRA Rules, Govt. of Pakistan will be adopted. The interested parties should submit the bid(s) in a single package containing two separate envelopes marked as Technical Proposal and Financial Proposal.**
- **In evaluating the technical Proposals, the University will take into consideration the following factors: e.g.**
 - i) **Relevant experience and past performance with proof.**
 - ii) **Capabilities with respect to personnel, equipments and plants.**
 - iii) **Financial position (Bank statements and audited financial statements).**
 - iv) **Appropriate managerial capabilities and**
 - v) **Bids should be according to the specifications provided by the University in tender documents. The evaluation will be based on compliance to the given specification, model, makes and expiry. Shaheed Benazir Bhutto University reserves the right to choose according to its own given specifications.**

- **The university shall promptly notify each bidder whether or not he has been technically qualified and shall make available to any person directly involved in the technical qualification process, upon request, the names of all suppliers or contractors who have been technically qualified. Only Suppliers or Contractors who have been technically qualified shall be entitled to participate further in the procurement proceedings.**

- Supply order/ contract award will be issued to the successful bidders.
- The contractor shall notify forth in written form to the purchase committee with any change in the constitution of the firm, etc. and such change shall not relieve any former member of the firm, etc., from any liability under the contract.
- The contractor, in respect of the contract, shall accept no new partner/ partners in the firm unless he / they agree to abide by all its terms, conditions and deposits with the purchase committee a written agreement to this affect. The contractor's receipt for acknowledgement or that of any partners subsequently accepted as above shall bind all of them.
- The contractor shall not assign or sub-let his contract or any substantial part thereof to any other agency.
- The purchase committee reserves the right to accept any tender not necessarily the lowest, reject any tender without assigning any reasons and accept tender for all or anyone or more of the articles for which tender has been given or distribute items of stores to more than one firm/ supplier.
- The tender shall remove the rejected articles within 15 days of intimation of rejection, after which purchase committee shall not be responsible for any loss, shortage or damage and shall have the right to dispose of such articles as it thinks fit, at the tenderer risk and on his account.

2 **Scope of supply**

- The firm will enter into a contract with Shaheed Benazir Bhutto University, regarding the repairs and maintenance of the Item / equipment(s) supplied and will be responsible for the arrangements of spare parts whenever needed.
- Although, specifications and accessories have been provided, yet the University will not accept any excuse for any missing part / item needed for its full working condition.
- The tenderer, whose tender is accepted, shall arrange to supply as per schedule to be provided by the University in supply order.

3. **BID price**

- The Bidder shall indicate in his offer, list of items with specifications, standard accessories, make and origin, the unit price and total Bid prices of the goods.
- Prices of the optional accessories should be quoted separately. Rates quoted should be on the basis of F.O.R, Shaheed Benazir Bhutto University Sheringal, Sub Campus Wari, respectively as mentioned in the B.O.Q.
- Taxes levied by the government, if any, shall be paid by the bidder and must be included in the quoted prices.
- In case of supply from local market or from ready stock, security @ 10% of the total bill will be deducted for a period of One Year and will be released subject to receiving satisfactory report from the concerned office.
- In case of items supplied from local stock, sales Tax and Income Tax will be deducted from the supplier's bill as per government rules.

4. **Currencies of BID**

- The prices shall be quoted in Pakistani rupees on F.O.R SBBU Sheringal/Wari basis,

5, **BID validity**

- The Bid remain valid and open for acceptance of the purchaser for **90 days** from the specified date of opening.

6. Earnest Money/Call Deposit

- The Quotation must be accompanied with a call deposit of 2% of the local quoted prices with their offer in the form of Bank CDR/demand draft/pay order in favor, of the Shaheed Benazir Bhutto University, Sheringal (refundable).
- The earnest money shall be denominated in Pakistani rupees and shall be in the form of demand draft, pay order or call deposit, issued by Pakistani bank or branch of a foreign bank, operating in Pakistan.
- In case of alternate prices, earnest money will be based on the maximum quoted price of the same items. The demand draft/CDR shall be returned to unsuccessful bidders on written request. Further 2% CDR will be returned upon request to successful Bidders after signing Contract Agreement on stamp paper & furnishing 10% performance bond through DD/PO/CDR/BANK/INSURANCE Guarantee of the total supply order value.
- The earnest money may be forfeited in the following cases:
 - i. When Tenderer withdraws or modifies the offer, after opening of tender but before acceptance of tender,
 - ii. When Tenderer does not execute the agreement if any, prescribed within the specified time.
 - iii. When the Tenderer does not deposit the security money after supply order is given & accepted.
 - iv. When he fails to commence the supply of the items as per supply order within the time prescribed.

7. Signing of BIDS

- The person signing the Bids shall initial all the pages of the bid along with official seal/stamp where entries are made.

8. Dead Line for submission of Bids

- All Bids must reach and be received by the purchaser on or before the prescribed date & time during the office hours.

9. Late BIDS

- Late bids will not be entertained and returned unopened to the Bidders.

10. Canvassing

- Counseling or canvassing staff or elected representatives by any Tenderer will become liable to disqualification.

11. Delivery of Equipment / Items

The tenderer, whose tender is accepted, shall arrange to supply as per schedule to be provided by the University in supply order.

- The items/ equipment (s) will be supplied in packed form and opened in front of the Purchase Committee. The working manuals, circuit diagrams, related literature and computer programs, if any, must accompany the items/ equipment(s) in original.
- The tenderer shall be responsible for the proper packing, so as to avoid damage under normal conditions of transport by sea, rail and road or air and delivery of the material in the good condition to the consignee at destination.
- In the event of any loss, damage, breakage or leakage or any shortage the tenderer shall be liable to make good such loss and shortage found at the checking / inspection of the material by the consignee. No extra cost on such account shall be admissible.
- The goods will be delivered at the destination godown in perfect condition.
- The supplier, if he so desires may insure the valuable goods against lost by theft, destruction or damage, by fire, flood under exposure to whether or otherwise viz., (war, rebellion, riot, etc.,).

- The insurance charges will be borne by the supplier and tendering committee will not be required to pay such charges if incurred.

12. Performance Security

- Within 15 days of issuance of the purchase/supply order successful bidders shall furnish to Shaheed Benazir Bhutto University, Sheringal Dir Upper the performance security bond as per *Annexure A* equivalent to 10% of the bid price in the form of DD/PO/CDR or Bank Guarantee/Insurance Guarantee from a company having AA ranking. The performance security shall be payable to Shaheed Benazir Bhutto University as compensation for any loss resulting from the suppliers failure to complete its obligations.
- The performance security will be discharged by the University and returned to the supplier after completion of the supplier's performance obligations under the contract.

13. Forfeiture of Security Deposit

- Security amount in full or part may be forfeited in the following cases:
 - i. When the terms and conditions of contract is breached.
 - ii. When the Tenderer fails to make complete supply satisfactorily.
 - iii. Notice of reasonable time will be given in case of forfeiture of security deposit. The decision of the Purchase Committee in this regard shall be final.

14. Mode of Payment

- Payment shall be made in the form of cheque which shall be issued after receipt of equipment / items, installation and inspection, according to the following schedule.
 - i. 90% payment will be made only after the equipment(s) is fully installed and comes in working condition upon provision of end user report.
 - ii. 10% after the security period is expired from the date of supply.
- No advance payment will be made. Payments will be made subject to the clearance of account and audit cells.
- The time specified for delivery in the tender form shall be deemed to be the essence of the contract and the successful tenderer shall arrange supplies within the specified period.
- If the supplier requires an extension of time in completion of contractual supply on account of occurrence of any hindrance, he shall apply in writing to the committee with solid proof, which has placed the supply order, for the same immediately on occurrence of the hindrance but not after the stipulated date of completion of supply.

15. Prices

- Prices charged by the supplier for goods delivered in services performed under the contract shall not exceed the prices quoted the supplier in its bids. The quantity of items to be purchased can be increased / decreased at the quoted/approved rates.
- The Purchase Committee reserves the right to consider a total package deal for all or group of some equipment with a total lowest quoted price for the package rather than lowest prices for the individual items.

16. Standard

- The equipment supplied must be tropical zed and it must be capable of functioning under the climatic conditions of Sheringal, Dir Upper.
- There shall be no deviation from specification and country of make as provided with each item. In case of any ambiguity in specification/accessories needed for the full functioning of the equipment, the firm must clear it with the Purchase Committee. However, the decision of the Purchase Committee will be final.

- The goods with standard accessories supplied under this contract shall conform to the standard maintenance in the technical specification along with the set of operational and maintenance manual it will be responsibility of the supplier to quote equipment in complete package.

17. Training

- The firm supplying the item/ equipment(s) will demonstrate the operation / working of the equipment(s) to the satisfaction of the quarter concerned and provide training if needed.

18. Calibration of item/equipment

- The approved firm will install the equipment(s) in the presence and to the satisfaction of the Purchase Committee. In case of any defect in the supplied equipment(s) or if it is not in accordance with the desired specification, the item will be changed at the cost of the supplier.

19. Guarantee / Warranty

The tenderer would give comprehensive onsite warranty / guarantee that the goods / stores / articles would continue to conform to the description and quality as specified for a period of **one year** from the date of delivery of the said goods/stores/articles to be purchased and that notwithstanding the fact that the purchaser may have inspected and/or approved the said goods/stores/article, if during the aforesaid period of one year, the said goods/stores/articles, be discovered not to conform to the description and quality aforesaid or have determined (and the decision of the Purchase Committee in that behalf will be final and conclusive), the purchaser will be entitled to reject the said goods/stores/articles or such portion thereof as may be discovered not to conform to the said description and quality, on such rejection the goods/articles/stores will be at the seller's risk and all the provisions relating to rejection of goods etc. shall apply.

- The tenderer shall, if so called upon to do, replace the goods etc., or such portion thereof as is rejection by Purchase Committee, otherwise the tenderer shall pay such damage as may arise by the reason of the breach of the condition herein contained. Nothing herein contained shall prejudice any other right of the Purchase Committee in that behalf under this contract or otherwise.
- The tenderer shall also replace machinery and equipments, in case it is found defective which cannot be put to operation due to manufacturing defect, etc. In case of machinery and equipment specified by the purchase Committee, the tenderer shall be responsible from carrying out annual maintenance and repairs on the terms and conditions as may be agreed. The tenderer shall also be responsible to ensure adequate regular supply of spare parts needed for a specific type of machinery and equipments whether under their annual maintenance and repairs rate contract or otherwise. In case of change of model he will give sufficient notice to the Purchase Committee who may like to purchase spare parts from them to maintain the machinery and equipments in perfect condition.
- The firm must have a representative office in Peshawar/Islamabad/Lahore, which can be contacted in case of any problem encountered during the working of equipment(s).

20. Conforming Tender

- A conforming tender is defined as follows:
 - i. It is submitted on time.
 - ii. It is lodged at the nominated place.
 - iii. All required forms are completed.
 - iv. Documents are properly signed.

- v. It complies with the tender conditions.
- vi. There are no commercial and contractual qualifications to the tender.

- A non-conforming tender is one, which does not satisfy the above requirements and it may be rejected.

21. Disqualification of Tender

- The tenderer shall observe all relevant statutory and legal requirements when complete the tender. Any Tender engaged in collusion with other tenderer shall be disqualified from tendering.

22 Delivery Schedule

- For Local items Delivery Schedule should be Two (2) months from the date contract after issuance of Supply Order.
- For Imported items Delivery Schedule should be Four (4) months from the date contract after the issuance of Supply Order with proof of import directly or indirectly.
- Keeping in view the actual problems/delays in delivering the respective items, Delivery Schedule can be relaxed with the approval of the Competent Authority upon written request with proof of reasons quoted.

23 Delay in Delivery

- In case of non extension in the delivery period, the recovery shall be made on the basis of following percentages of value of goods stores / work completion which the tenderer has failed to supply / complete the work.

Conditions with Percentage

- a. Delay up to one fourth period of the prescribed delivery period.
2.5 %
- b. Delay exceeding one fourth but not exceeding half of the prescribed period.
5.0 %
- c. Delay exceeding half but not exceeding three fourth of the prescribed period.
7.5 %
- d. delay exceeding three fourth of the prescribed period.
10.0 %

- Fraction of a day in reckoning period in supplies shall be eliminated if it is less than half a day. The maximum amount shall be 10%.
- The security money shall be refunded immediately after expiry of warranty period provided there is no breach of contract by the supplier and provided there is no outstanding against the tenderer.

24 Recoveries

Recoveries of liquidated damages, short supply, breakage, rejected articles shall ordinarily be made from bills.

Contract Agreement

This agreement is made this day date-month-2018 between the **SHAHEED BENAZIR BHUTTO UNIVERSITY SHERINGAL, DIR UPPER, KHYBER PAKHTUNKHWA** (hereinafter called as Party One which shall include the successors and assignees in the Board/Centre) and the Tenderer/Contractor, M/S XYZ (hereinafter called as Party Two which includes its successors and assignees)

Whereas the Party One having invited tender, **SHAHEED BENAZIR BHUTTO UNIVERSITY SHERINGAL, DIR UPPER, KHYBER PAKHTUNKHWA** decided to accept the tender of **M/S XYZ**

The detail of items is as under for the supply of (quoted item in tender)

SUPPLY ORDER FOR THE PURCHASE OF -----, TENDER # 00/2018, Supply Order # SBBU/Proc/000 DATED 00-00-2018, amounting to Rs-000,000/- Rupees

Now this deed witnessed as follows:

- (a) The SBBU Dir Upper hereby appoints M/S XYZ for the work/items mentioned in **S.O NO # SBBU/Proc/000 DATED 00-00-2018, TENDER # 00/2018, & SBBU** agrees to pay the amount mentioned in **said supply order & tender.**
1. The work/items will be supplied to **SHAHEED BENAZIR BHUTTO UNIVERSITY SHERINGAL, DIR UPPER, KHYBER PAKHTUNKHWA** as per specifications mentioned in the supply order and tender documents as well as warranty.
 2. Delivery of work/items and relevant bill(s) to **SHAHEED BENAZIR BHUTTO UNIVERSITY SHERINGAL, DIR UPPER, KHYBER PAKHTUNKHWA** will be completed within the specified period from the date of contract as per supply order conditions.
 3. All the items will be delivered at **SHAHEED BENAZIR BHUTTO UNIVERSITY SHERINGAL, DIR UPPER, KHYBER PAKHTUNKHWA** at the cost of the firm/supplier.
 4. The function and operation of the equipments/items will be demonstrated at **SHAHEED BENAZIR BHUTTO UNIVERSITY SHERINGAL, DIR UPPER, KHYBER PAKHTUNKHWA** by the firm/supplier.
 5. Sub-standard or not according to specification, the items will be rejected and returned on the expenses of the firm/supplier.
 6. A performance bond @ 10% (Rs-00,000) of the Supply Order amount in the shape of bank draft/call deposit/D.D./Bank Guarantee will be submitted to **Treasurer Shaheed Benazir Bhutto University Sheringal, Dir Upper** at the time of contract. The performance bond security will be returned after completion of supply order.
 7. Failure in supply of items within stipulated period shall entail forfeiture of performance bond security.
 8. The Party Two agrees for completion of the job according to the designs and samples approved by the SBBU within specified period from the date of contract. In case of delay, the SBBU reserves the right to impose a penalty up to 10% of the total amount of the contract as per tender terms & conditions.

Signature: _____

Name: M/s **Supplier**

Treasurer

SBBU Sheringal, Dir Upper

Seal of the firms: _____

Witness # 1

Witness # 2

List of Items required for Botany Department Main Campus Sheringal

S.#	Name of Item	Specification	Quantity
1	Office Tables for HOD & Staff	Size 5x3 ft, made of ¾" Laminated Lasani height=30", 03 drawers, frame made of 1" 18 SWG steel square pipe and covered from three sides with ½" thick laminated lasani (Top & sides of same type of material).	05 Nos.
2	Revolving Chairs for HOD & Staff	Should be normal high back with Taiwan made plastic Hydraulic Base & warranted Foam of good quality & back rest cushion.	01 No
3	Sofas Single Seater	Made of solid wood shesham/ walnut /deodar with 4" thick foam cushioned or alternatively complete foam cushioned covered.	02 Nos.
4	Visitor Chairs	Good Looking frame made of 18 SWG 3/4" steel square pipe having 3" warranted foam back & sitting cushions covered with sofa cloth standard type complete in all respects	10 Nos.
5	Cupboard Wooden	Size 6'x4'x15" made of ¾" laminated Lasani having 8 shelves with partition in centre & 04 small doors complete in all respects.	01 No
6	Centre Table Single Piece	Standard size of single piece made of wooden frame with ¾" laminated lasani on top.	01 No
7	File Racks	Made of ¾" laminated Lasani with 6.50 ft Height & 4 ft Width & 05 No of shelves in each unit with each shelf having 14" height & 12 "depth.	03 Nos.
8	White Boards	4x8 ft and will be fixed on a shesham wooden frame of 1"x3" thick having three iron hooks for hanging in the class room complete in all respects	03 Nos.
9	Lecture Dices	Height & width as per standard size to be used in higher education classes, Structure made of ¾" Laminated Lasani complete in all respects	03 Nos.
10			

List of Office Equipment/Furniture for the SBBU Sub Campus Wari

S.#	Name of Item	Specification	Quantity
1	Stabilizers 10000W	Should be of a renowned brand, 100% copper block & solid warranty	02 Nos.
2	Printers	Should be from 35-38 ppm speed	02 Nos.
3	Multimedia	Type: 3 LCD Display Technology Brightness: 4000-5000 lumens Plus/Minus Resolution: XGA (1280 x 800) Contrast: 10000 : 1 Lamp Life: 5000 hours with standard warranty to be clearly mentioned	01 No
4	Wooden Cupboards	Size 6'x4'x15" made of ¾" laminated Lasani having 8 shelves with partition in centre & 04 small doors complete in all respects.	10 Nos.

5	Water Coolers Electric	Having capacity of 50ltrs and made of renowned company with compressor and tank Warranty.	02 Nos.
6	Steel Cupboards	Made of Steel, 22 SWG complete body structure, height 6', width 3', depth 16" with 02 doors having 4 no of shelves of 14 inch height	03 Nos.
7	Centre Tables	Standard size of single piece made of wooden frame with ¾" laminated lasani on top.	03 Nos.
8	Common Room Chairs	Good looking without arms frame made of 18 SWG 3/4" square pipe having 3" warranted foam back & sitting cushions covered with sofa cloth standard type complete in all respects.	40 Nos.
9			

List of Items required for Students Hostels through Provost Office in Main Campus Sheringal

S.#	Name of Item	Specification	Quantity
1	Geyser Electric	12 gallons of a renowned Company with Italian brand rod & with solid warranty period clearly mentioned	36 Nos.
2	Tee Cock ½" GI	Good Quality	62 Nos.
3	Connection Pipe	Good Quality	62 Nos.
4	CP Nipples	Good Quality	104 Nos.
5	Power Shoe	Good Quality	36 Nos.
6	Power Plugs	Good Quality	36 Nos.
7	Seal Tapes	Good Quality	70 Nos.
8	Bolt Kits	Good Quality	72 Packs.
9	Bib Cock ½" GI	Good Quality	36 Nos.
10	Pipe ½" GI	Good Quality of 20 ft length	18 Nos.
11	Socket GI ½"	Good Quality	36 Nos.
12	Safety Valves	Good Quality	10 Nos.
13	Elbow ½" GI	Good Quality	40 Nos.
14	Nipple ½" GI	Good Quality	15 Nos.
15	Union ½" GI	Good Quality	05 Nos.
16	Tee ½" GI	Good Quality	20 Nos.
17	Clips GI	Good Quality	50 Nos.
18	Steel Nails 1"	Good Quality	01 Pack
19	Steel Nails 3"	Good Quality	01 Pack
20	Cable PVC 7/0.44	Good Quality	01 Roll
21	Duct Patti 1"	Good Quality	10 Nos.
22	Insulation Tapes	Good Quality	05 Nos.

List of Items required for Administration/ORIC/QEC/Academics/Pharmacy Departments Main Campus Sheringal

S.#	Name of Item	Specification	Quantity
1	Revolving Chair for Director Admin	Should be normal high back with Taiwan made plastic Hydraulic Base & warranted Foam of good quality & back rest cushion.	01 No

2	Office Table for Director Admin	Size 5x3 ft, made of ¾" Laminated Lasani height=30", 03 drawers, frame made of 1" 18 SWG steel square pipe and covered from three sides with ½" thick laminated lasani (Top & sides of same type of material).	01 No
3	Visitor Chairs for Director Admin	Good Looking frame made of 18 SWG 3/4" steel square pipe having 3" warranted foam back & sitting cushions covered with sofa cloth standard type complete in all respects	08 Nos.
4	Digital Camera for Director ORIC	20-25 Mega Pixel with standard warranty to be clearly mentioned	01 No
5	Multimedia with Movable Screen for Director ORIC	Type: 3 LCD Display Technology Brightness: 4000-5000 lumens Plus/Minus Resolution: XGA (1280 x 800) Contrast: 10000 : 1 Lamp Life: 5000 hours with standard warranty to be clearly mentioned	01 No
6	Photocopier for Director ORIC		01 No
7	UPS with Battery for Director ORIC	100% copper 24V of a renowned brand with 2 batteries 200Amp each & other related accessories & warranty to be mentioned clearly	01 Set
8	Revolving Chair for D.D. QEC	Should be normal high back with Taiwan made plastic Hydraulic Base & warranted Foam of good quality & back rest cushion.	01 No
9			

List of Items required for Mathematics Department Main Campus Sheringal

S.#	Name of Item	Specification	Quantity
1	Revolving Chairs	Should be normal high back with Taiwan made plastic Hydraulic Base & warranted Foam of good quality & back rest cushion.	01 No
2	Visitor Chairs	Good Looking frame made of 18 SWG 3/4" steel square pipe having 3" warranted foam back & sitting cushions covered with sofa cloth standard type complete in all respects	10 Nos.
3	Wooden Cupboards	Size 6'x4'x15" made of ¾" laminated Lasani having 8 shelves with partition in centre & 04 small doors complete in all respects.	02 Nos.
4	Faculty Tables	Size 5x3 ft, made of ¾" Laminated Lasani height=30", 03 drawers, frame made of 1" 18 SWG steel square pipe and covered from three sides with ½" thick laminated lasani (Top & sides of same type of material).	04 Nos.
5	Single Seater Sofa	Made of solid wood shesham/ walnut /deodar with 4" thick foam cushioned or alternatively complete foam cushioned covered.	05 Nos.
6	Small Racks	Made of ¾" laminated Lasani with 4 ft Height & 3 ft Width & 03 No of shelves in	04 Nos.

		each unit with each shelf having 14" height & 12 "depth.	
7	Class Room/Tablet Chairs	18x18" Size made of ¾" square pipe 18 SWG with 2" shesham wooden strips complete in all respects	40 Nos.
8			

List of Items required for University Public School Boys Section Main Campus Sheringal

S.#	Name of Item	Specification	Quantity
1	Class Room/Tablet Chairs	18x18" Size made of ¾" square pipe 18 SWG with 2" shesham wooden strips complete in all respects	100 Nos.
2	Dices	Height & width as per standard size to be used in higher education classes, Structure made of ¾" Laminated Lasani complete in all respects	06 Nos.
3	Library Chairs	Good looking without arms frame made of 18 SWG ¾" square pipe having 3" warranted foam back & sitting cushions covered with sofa cloth standard type complete in all respects.	20 Nos.
4	Revolving Chair for Principal	Should be normal high back with Taiwan made plastic Hydraulic Base & warranted Foam of good quality & back rest cushion.	01 No

List of Items required for Main Store SBBU Main Campus Sheringal

S.#	Name of Item	Specification	Quantity
1	Paper A4 Size	80 grams for Laser jet Printers	1000 Rims
2	Paper Legal Size	80 grams for Laser jet Printers	300 Rims
3	Simple File Covers	As per Sample	2000 Nos.
4	Ball Points Blue	Standard Quality	150 Packets
5	Ball Points Black	Standard Quality	100 Packets
6	Ball Points Red	Standard Quality	60 Packets
7	Envelopes Khaki Legal	As per Sample	1000 Nos.
8	Envelopes Khaki A4	As per Sample	1000 Nos.
9	Lead Pencils	Standard Quality	60 Packets
10	Whiteners	Standard Quality	10 Packets
11	White Board Markers Erasable	Standard Quality	60 Packets
12	White Board Markers Ink	Standard Quality	20 Packets
13	Staplers Heavy Duty	Stapling Capacity 200~300 pages	10 Nos.
14	Staplers Medium 24/6	Best available quality like Max HD-50R or Equivalent with staple remover clip	50 Nos.
15	Staple pins 23/10 size	Standard Quality	10 Packets
16	Glue Sticks small size	Standard Quality	50 Packets
17	White Boards Dusters	Best Quality	100 Nos.
18	Scotch Tape 1"	50 meters length best quality	50 Nos.
19	Calculators minimum 14 digits	Best Quality	12 Nos.
20	Punch Machine Medium	Standard Quality	20 Nos.
21	Stamp Pads	Best Quality	30 Nos.
22	Binding Tape 2" 50 meter length	Best Quality	50 nos.

List of Equipment/Chemicals/Glassware

List of Items required for Pharmacy Department Main Campus Sheringal

S.#	Name of Item	Specification	Quantity
1	Benzoic Acid	Synthetic grade	2 kg
2	Iron (III) Chloride	Synthetic grade	2 kg
3	Pthalic Acid	Synthetic grade	2 kg
4	Pthalic Anhydride	Synthetic grade	2 kg
5	Phenyl Hydrazine	Synthetic grade	500 ml
6	Potassium Dichromate (K ₂ Cr ₂ O ₇)	Synthetic grade	2 kg
7	Acetic Anhydride	Synthetic grade	2 kg
8	Potassium Permanganate (KMnO ₄)	Synthetic grade	2 kg
9	Mercuric Oxide	Synthetic grade	2 kg
10	2,4-dinitrophenylhydrazine	Synthetic grade	2 kg
11	Ammonium Molybdate	Synthetic grade	2 kg
12	Copper Sulphate	Synthetic grade	2 kg
13	Magnesium Carbonate	Synthetic grade	2 kg
14	Chloraldehyde	Synthetic grade	2 kg
15	Chlorobenzene	Synthetic grade	2 kg
16	Sodium Acetate	Synthetic grade	2 kg
17	Phenyl Hydrazine	Synthetic grade	2 kg
18	Benzoyl Chloride	Synthetic grade	2 liter
19	Benzyl Alcohol	Synthetic grade	2 liter
20	Isopropyl Alcohol	Synthetic grade	2 liter
21	Cobalt Chloride	Synthetic grade	2 kg
22	Acetic acid	Synthetic grade	2.5 liters
23	Silica Gel flash plus column	Synthetic grade	5 kg each
24	TLC flats	Synthetic grade	3 cotton
25	Antibiotics discs	Lab grade/quality	All antibiotics
26	Benzyl Chloride	Synthetic grade	2.5 liters
27	Acetone	Synthetic grade	5 liters
28	Inj. Adrenaline	Lab grade/quality	30 vials
29	Inj. Atropine	Lab grade/quality	30 vials
30	Tropicamide drops	Lab grade/quality	10 bottles
31	Pilocarpine drops	Lab grade/quality	10 bottles
32	Inj. Frusemide	Lab grade/quality	30 vials
33	Cages for Animal/mice/rabbits	SS-316 made Medium Size	30 cages
34	Inj. Diazepam	Lab grade/quality	100 vials
35	Inj. Pentothal	Lab grade/quality	100 vials
36	Tab. Propranolol	Lab grade/quality	50 packs
37	Ventolin Inhaler	Lab grade/quality	50 bottles
38	Inj. Avil	Lab grade/quality	200 vials
39	Inj. Hydrocortisone 100 mg	Lab grade/quality	100 vials
40	Inj. Hydrocortisone 250 mg	Lab grade/quality	100 vials

41	Inj. Ceftriaxone 1000 mg	Lab grade/quality	100 vials
42	Inj. Ceftriaxone 500 mg	Lab grade/quality	100 vials
43	Tab. Angisel	Lab grade/quality	50 packs
44	Chloroform	Synthetic grade	10 liters
45	Inj. Diclofenec	Lab grade/quality	300 vials
46	Inj. Nalbuphine	Lab grade/quality	150 vials
47	Inj. Tramadol	Lab grade/quality	200 vials
48	Tab. Brofen 400 mg	Lab grade/quality	100 strips
49	Inj. Gravinate	Lab grade/quality	300 vials
50	Pyodine Solution	Lab grade/quality	200 bottles
51	Cotton Rolls	Lab grade/quality	100 packs
52	Choline	Lab grade/quality	10 kg
53	Inositol	Lab grade/quality	10 kg
54	Inj. Neurobron	Lab grade/quality	300 vials
55	Voltaren gel	Lab grade/quality	50 tubes
56	Dettol cotton	Lab grade/quality	100 rolls
57	Potassium iodide	Synthetic grade	05 kg
58	Potassium chloride	Synthetic grade	03 kg
59	Magnesium chloride	Synthetic grade	03 kg
60	Dextrose / Glucose	Synthetic grade	03 kg
61	Iodination flask 250 ml	Borosilicate	05 Nos.
62	Salicylic acid	Synthetic grade	1 kg
63	Dimethoxysulphoxide	Synthetic grade	2.5 liter
64	Hot air gun	Medium size	10 Nos.
65	Ethanol	Synthetic grade	5 liter
66	Vials	Medium size	10000 Nos.
67	Agar	Synthetic grade	1 bottle
68	Acetic acid	Synthetic grade	1 liter
69	Phenyl tetrazine	Synthetic grade	1 gm
70	Streptazocine	Synthetic grade	5 gm.
71	carrageenan	Synthetic grade	500 gm.
72	DPPH	Synthetic grade	5 gm.
73	Brine shrimps eggs	Synthetic grade	2 bottles
74	Methylene blue	Synthetic grade	2 bottles
75	Hydrogen peroxide	Synthetic grade	2 bottles
76	Round Bottom Flasks	500ml and 1000 ml	10 Nos.
77	Racks for Mice cages	SS-316 made	3 Nos.
78	Lancets disposable	Lab grade	100 packs
78	Glucometers strips disposable	Lab grade	100 packs
80	Dettol/Spirits	Lab grade	100 packs
81	EDTA Powders	Synthetic grade	500 gm
82	GIMSA Stain	Synthetic grade	200 ml
83	HB reagents	Lab grade	100 ml
84	Dissection boxes complete sets	Lab grade	10 Nos.

85	Thermometers digital	100 °C and 500 °C capacity	20 Nos.
86	Wound healing strips	Lab grade	100 Nos.
87	Capillary tubes large medium and small	Lab grade	40 packs
88	Urine reagents strips	Lab grade	20 Nos.
89	Lab coats	Lab grade	30 Nos.
90	Syringes disposable large medium and small	Lab grade	20 Packs each
91	Iodoform	Synthetic grade	500 gm
92	UV light lamp	Short wave and large wave each	2 Nos.
93	Scavenger apparatus	Lab grade	2 Nos.
94	Magnetic hot plates	Synthetic grade	5 Nos.
95	Gold salts	Synthetic grade	3 gm.
96	Reflex condenser	Synthesis grade	3 Nos.
97	Iodination flask	250 ml	5 Nos.
98	Rectangular TLC developing tanks, complete	1-L x H x W 7.5 cm x 15.5 cm x 8.0 cm 2-L x H x W 17.5 cm x 11.0 cm x 6.2cm 3-L x H x W 27.0 cm x 26.5 cm x 7.0cm	2 each
99	Potassium hydrogen phthalate	BioXtra, ≥99.95%,	500 g x 2
100	Benzidine	≥98.0% (N)	5g x2
101	Hydrogen peroxide solution	≥30%, for trace analysis	100 ml x 3
102	Ferric chloride	reagent grade, 97%	1 kg
103	Tragacanth	Off White to Light Yellow to Light Beige	500 g x 2
104	Ruthenium red	for microscopy, 85.0-115.0% (calc. on dry basis, AT),	5 g
105	Myrrh resin	Natural, Biological source, Commiphoramolmol	500 g
106	Benzoin resinoid	Natural, biological source <i>Styraxtonkinensis</i>	1 kg
107	Antimony trichloride	≥99.95% trace metals basis	10 g x 2
108	Phloroglucinol	For analysis/ Used to detect the presence of wood fiber	25 g x 1
109	Tannic acid	ACS Reagent	50 g x 2
110	Glabinclamide	For pharmacological activities	2 packs
111	Formalin	For pharmacological activities	2 liters
112	Acetic acid	For pharmacological activities	2 liters
113	Glutatmate	For pharmacological activities	2 packs
114	Diclofenac sodium	For pharmacological activities	2 packs
115			

List of Items required for Agriculture Department Main Campus Sheringal

S.#	Name of Item	Specification	Quantity
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1	Ezycolor Colorimeter	Model LT-116 Range 400~700nm or Equivalent	02 Nos.
2	Spectrophotometer UV/Vis	Model UV 762 or Equivalent	01 No
3	Flame Photometer	Model 410C or Equivalent	01 No
4	Bench Centrifuge	Model 800 centrifuge or Equivalent	01 No
5	Ultra Centrifuge	Model LG-25M	01 No
6	Soxhelt Apparatus for fats	Model SOX606 or Equivalent	01 No
7	Soxtech for fiber	Model BK-F800 or Equivalent	01 No
8	Kjeldahl for Protein	Model BKN-987 or Equivalent	01 No
9	Muffle Furnace	Model YXS-1280	01 No
10	Micro Pipettes	Model TYC11 or Equivalent	01 each of various sizes
11	Fridge (+/- 4C)	Model DW-650 or Equivalent	02 Nos.
12	Agrose Del Electrophoresis system with power supply		02 Nos.
13	SDS Gel Electrophoresis system with power supply		02 Nos.
14	Gel Doc System	Model Wd-9413A	01 No
15	Freeze Dryer	Model RT-100F	01 No
16	Viscometer	Model ALB	02 Nos.
17	Water Bath	Model HH-S2	01 No
18	Analytical Balance	Model Ls-HKJ-0.0001g	02 Nos.

List of Equipments required for Zoology Department Main Campus Sheringal

S.#	Name of Item	Specification	Quantity
1	High speed refrigerated centrifuge with accessories	Ultracentrifuge, a sophisticated on-board computer, enhanced firmware, powerful software and an easy-to-use touch screen, optimized user efficiencies, far greater capabilities and faster turnarounds.	1 No.
2	PCR machine	96 wells, gradient thermal cycler	1 No.
3	Spectrophotometer	UV visible, double beam	1 No.
4	Water bath		1 No
5	Glassware drying cabinet		1 No.
6	Water double distillery		1 No.
7	Digital autoclave		1 No
8	Incubator	Stainless steel inner chamber size 400 x 400x 500 mm, vol. 80 lit with high accurate temperature	1 No
9	Surgical dissection Box Stainless steel, Strong Man.	with scalpel blades and all accessories	10 Nos.
10	BP Apparatus Auto/ Manual, Beurer Inc.,		3 Nos.
11	Blood Autoanalyser with Washing Solutions BD or Siemens, CBC with computer, printer and all accessories.		1 No
12	GARMIN GPS ETREX LEGEND HCX:	Waterproof, so it can withstand the elements or an accidental dunk in	1 No

		water, Crisp 256-color, sunlight-readable display makes it easy to distinguish map details – plus, it looks fantastic, fast USB computer connection so you can transfer waypoints and other data to your computer. SPECIFICATIONS: Unit dimensions, WxHxD 2.2" x 4.2" x 1.2" (5.6x10.7x3.0cm), Display size WxH: 1.3" x 1.7" (3.3 x 4.3 cm), Display resolution, WxH: 176x 220 pixels, Display resolution: WxH: 176x 220 pixels, Display type: 256 level color TFT, weight: 5.5. oz (156g) with batteries, interface: USB, accepts data cards, micro SD card (not included). Waypoints/favorites/location: 1000, Routes: 50, Track log: 10,000 points, 20 saved tracks.	
13	GEOLOGICAL MAPS AND CHARTS		20 Nos.
14	Gloves 12 packets		12 Nos.
15	Canada Balsam/U.V Resin		10 Nos.
16	Microscopic glass slides		20 Packets
17	Cancelled		
18	Distillation Unit		1 No
19	Temperature control water bath Temp. 10-60oC		1 No
20	Insect nets		10 Nos.
21	Dissection trays		10 Nos.
22	Fish aquaria	(2x2x1.25feet) With 8mm glass thickness	2 Nos.
23	Aquarium stands		2 Nos.
24	Aerators		2 Nos.
25	Aquarium aearators		2 Nos.
26	Aquarium filter		2 Nos.
27	Glass slides & cover slips		5 Packs
28	Portable conductivity meter		1 No
29	Portable dissolved oxygen meter		1 No
30	Portable salinity meter		1 No
31	Tranquilizer Gun	USA/German made	1 No
32	Air Gun		1 No
33	Sharman traps		5 Nos.
34	Birds nets	Scotland made different sizes i.e., 6m, 9m, 12m with 2.5 m width	3 Nos.
35	Stethoscope	-	2 Nos.
36	Ependorf racks		10 Nos.
37	Whatsman Filter papers (41,42)		5 Packets each
38	Test tube with stands		50 Nos. with 5

			stands
39	Test tube holders		5 Nos.
40	Digital camera with 500 GB memory card and stand (for wild life study)		02 Nos.
41	Surgical gloves rubber made		5 Packets
42	Bio safety hood level II & III		01 No each
43	Liquid Nitrogen Container	MVE, USA or Air Liquid, France	2 Liters
44	Eye piece micrometer for microscope		03 Nos.
45	Digital Centrifuge (Upto 16000rpm)		02 Nos.

List of Items (Chemicals) required for Zoology Department Main Campus Sheringal

S.#	Name of Item	Specification	Quantity
1	Alizarine		5 L
2	Chloroform (Absolute: 100%)		5 L
3	KOH (powder and solution)		3
4	Formaldehyde (Absolute: 100%)		20 pkts (each 2.5 liter)
5	Ethyl alcohol (Absolute: 100%)		10 Liters
6	HCl (Absolute: 100%)		2 L
7	H ₂ SO ₄ (Absolute: 100%)		20 L (each)
8	Molish reagents		20 L
9	Benedict solution		20 L
10	NaOH (solution)		30 L
11	CuSO ₄ (solution)		30 L
12	AgNO ₃ (Silver Nitrate)		10 L
13	Aticer A,B,D		02 Pcs
14	Citric acid		20 L
15	Acetic Acid		20 L
16	Gentionviolet		10 L
17	AgCl(Silver Chloride)		10 L
18	Nitric acid (conc, dilut)		10 L (each)
19	Creatine compound		10 L
20	Picric acid		10 L
21	Glacial acetic acid		10 L
22	Gemsa stain		200 Pcs
23	Crystal violet		3 L
24	Saffranin		4 L
25	Phenolphthalein		1 L
26	DDT		1 L
27	Mortin		1 L
28	Fructose		500 gms
29	Glycerol		500 gms
30	Streptomycin sulphate		500 ml

31	Giemsa Stain		100 gms
32	Eosin stain		25 gms
33	Tri sodium citrate		1.0 Liter
34	Canada Balsam		25 gms
35	Methanol		1 L
36	Na ₂ HPO ₄ .7H ₂ O ₂		1.00 Liter
37	Acridine orange stain		1.00 Liter
38	NaCl		500 gms
39	EDTA		5. 00 gms
40	Triton-X		1.00 kg
41	Boric Acid		1.00 kg
42			

List of Items (Skelton) required for Zoology Department Main Campus Sheringal

1	Skeleton of Labeo rohita (Rohu)		05 Nos.
2	Skeleton of Varanus		05 Nos.
3	Skeleton of Fowl		05 Nos.
4	Skeleton of Rabbit		05 Nos.
5	Skeleton of Frog		05 Nos.

List of Items (Glassware) required for Zoology Department Main Campus Sheringal

S.#	Name of Item	Specification	Quantity
1	Soxhlet apparatus		03 Nos.
2	Spatulas for Balance	Large	01 No
3	Spatulas for Balance	Med	01 No
4	Spatulas for Balance	Small	01 No
5	Specific Gravity Bottle		½ dozen
6	Standard screens		½ dozen
7	Stirrer Rod	1 kg	½ dozen
8	Suction flasks	500ml	½ dozen
9	Suction pump	Metallic	½ dozen
10	Teflon Beakers		½ dozen
11	Test tube rack steel		03 Nos.
12	Test tube Stand		03 Nos.
13	Thermometer	100 °C	03 Nos.
14	Thermometer	110 °F	02 Nos.
15	Thermometer	400 °C	02 Nos.
16	Thimble	Medium	10 L each
17	TLC Jar		10 Nos.
18	Thistle funnel		05 Nos.
19	Three neck flask	Q.F.	10 Nos.
20	Spirit lamp		20 Nos.
21	Triangular (crucible Holder)		30 Nos.
22	Tripod Stand		10 Nos.
23	Net (for Tripod Stand)		10 Nos.

24	Two way one neck adaptor		10 Nos.
25	Viscometer(fine)	Simple	01 comp: set.
26	Volumetric flask	2000ml	05 Nos.
27	Volumetric flask	1000ml	05 Nos.
28	Volumetric flask	500ml	05 Nos.
29	Volumetric flask	250ml	05 Nos.
30	Volumetric flask	100ml	05 Nos.
31	Wash bottles	250ml	05 Nos.
32	Conductometer	High quality	01 No
33	Power supply for gel electrophoresis system		01 No
34	Petridishes	Large	01 No
35	Pinch cock		02 Nos.
36	Distillation Assembly		02 Nos.
37	Sublimation Assembly		01 No
38	Claisen Adopter		02 Nos.
39	Round bottom flasks (24/29)	1000 ml	03 Nos.
40	Round bottom flasks (24/29)	500ml	02 Nos.
41	Round bottom flasks (24/29)	250ml	04 Nos.
42	Round bottom flasks (24/29)	100ml	03 Nos.
43	Round bottom flasks (Three neck)		02 Nos.
44	Round bottom flasks(Two neck)		02 Nos.
45	Reagent bottles(N/M)	250ml	04 Nos.
46	Safety Glass		05 Nos.
47	Sand bath		03 Nos.
48	Separating funnel	1000ml	02 Nos.
49	Separating funnel	500ml	02 Nos.
50	Separating funnel	250ml	02 Nos.
51			

List of Items (Preserved Specimen) required for Zoology Department Main Campus Sheringal

1	Sponges (Sycon, Leucosolenia)		02 Nos.
2	Hydra, Tubularia,		02 Nos.
3	Obelia		02 Nos.
4	TaeniaSolium		02 Nos.
5	Liver Fluke		02 Nos.
6	Ascaris		02 Nos.
7	Chiton,		02 Nos.
8	Umion,		02 Nos.
9	Octopus, Squid Snail		02 Nos.
10	King Crab		02 Nos.
11	Scorpion		02 Nos.
12	Spider		02 Nos.
13	Prawn		02 Nos.
14	Cray fish		02 Nos.

15	Millipede		02 Nos.
16	Centipedes		02 Nos.
17	Cockroach		02 Nos.
18	Sea lilly		02 Nos.
19	Star fish		02 Nos.
20	Brittle star		02 Nos.
21	Sea urchin		02 Nos.
22	Sea cucumber		02 Nos.
23	Balanoglossus		02 Nos.
24	Ascidia		02 Nos.
25	Molgula		02 Nos.
26	Amphioxus		02 Nos.
27	Lamprey		02 Nos.
28	Hagfish		02 Nos.
29	Shark		02 Nos.
30	Skates		02 Nos.
31	Ratfish		02 Nos.
32	Lungfish		02 Nos.
33	Bowfin		02 Nos.
34	Trout		02 Nos.
35	Carp		02 Nos.
36	Salmon		02 Nos.
37	Sea-horse		02 Nos.
38	Eel		02 Nos.
39	Salamander		02 Nos.
40	Frog		02 Nos.
41	Caecilian		02 Nos.
42	Toad		02 Nos.
43	Tortoise		02 Nos.
44	Turtle		02 Nos.
45			

List of Items (Species Stuffs) required for Zoology Department Main Campus Sheringal

1	Python		01 No
2	Viper		01 No
3	Cobra		01 No
4	Crocodile		01 No
5	Alligator		01 No
6	Penguin		01 No
7	Ostrich		01 No
8	Cassowary		01 No
9	Kiwi		01 No
10	Grebe		01 No
11	Pigeon		01 No
12	Dove		01 No

13	Duck		01 No
14	Hawk		01 No
15	Pheasant		01 No
16	Parrot		01 No
17	Flamingo		01 No
18	Crane		01 No
19	Hummingbird		01 No
20	Owl		01 No
21	Hornbill		01 No
22	Woodpecker		01 No
23	Spiny-ant-eater		01 No
24	Opossum		01 No
25	Kangaroo		01 No
26	Hedgehog		01 No
27	Mole		01 No
28	Shrew		01 No
29	Bat		01 No
30	Sloth		01 No
31	Armadillo		01 No
32	Pangolin		01 No
33	Rabbit		01 No
34	Squirrel		01 No
35	Rat		01 No
36	Mice		01 No
37	Porcupine		01 No
38	Manatee		01 No
39	Wolves		01 No
40			

List of (Prepared Slides) required for Zoology Department Main Campus Sheringal

S.#	Name of Equipment	Specification	Quantity
1	Simple Squamous Epithelial tissues		05 Nos.
2	Stratified Squamous Epithelial tissues		05 Nos.
3	Stratified Columnar Epithelial tissues		05 Nos.
4	Pseudo Stratified ciliated Epithelial tissues		05 Nos.
5	Adipose Connective tissues		05 Nos.
6	Hyaline Cartilage		05 Nos.
7	Fibro Cartilage		05 Nos.
8	Red Blood Cells		05 Nos.
9	White Blood Cells		05 Nos.
10	Platelets		05 Nos.
11	Bone tissues		05 Nos.
12	Nervous tissues		05 Nos.
13	Skeletal Muscle tissues		05 Nos.
14	Smooth Muscle tissues		05 Nos.

15	Cardiac Muscle tissues		05 Nos.
16	Euglena		05 Nos.
17	Amoeba		05 Nos.
18	Entameoba		05 Nos.
19	Plasmodium		05 Nos.
20	Trypanosoma		05 Nos.
21	Paramecium		05 Nos.
22	Mitosis in Onion root tip (all phases)		5 each stage
23	Meiosis in grasshopper testis (all stages)		5 each stage
24	Amphioxus Developmental stages		5 each stage
25	Frog Developmental stages		5 each stage
26	Chick Developmental stages		5 each stage
27	Prepared slides of fish parasites		5 each stage
28	Various types of animals cells		5 each stage
29	Various stages of cell cycle of animals		5 each stage
30			

List of Equipment/Apparatus for Chemistry Department Main Campus Sheringal

S.#	Description	Specifications	Quantity
1	Oven	35 ltrs	01 No
2	Steel oil pump for barrel		01 No
3	Calorimeter		1x5 No
4	Furnace (up to 1000°C), Prograde controlled temperature, Japan, USA		1x1 No
5	Heat gun		1x4 No
6	Water Bath, Made in China, Japan, USA		1x3 No
7	Water distillation Assembly, Made in China, Japan, USA		1x2 No
8	Blood grouping kit(anti sera)		Unit packing
9	Glucometer		Unit packing
10	Water multi test analysis kit(good quality multi parameter)		Unit packing

List of Chemicals for Department of Chemistry Main Campus Sheringal

1	2,4-dinitrophenylhydrazine		100g
2	Acetic anhydride		500ML
3	Acetone (HPLC grade)		2.5 Lx5
4	Acidic mercuric sulphate		Unit packing
5	AgNO ₃		Unit packing
6	Aluminium chloride (anhydrous)		250g
7	Ammonium hydroxide (NH ₄ OH)		2.5L
8	ammonium oxalate		100g
9	Barium Chloride (BaCl ₂)		100g
10	Barium hydroxide		Unit packing
11	Benzyl chloride		2.5 Lx2

12	Benzoic acid		500g
13	4-amino benzoic acid		500g
14	BF ₃ etherate		1L
15	Bromine solution		500ml
16	Cadmium nitrate Cd(NO ₃) ₂		250g
17	Calcium Chloride (anhydrous)		1KG
18	Calcium hydride (anhydrous)		100g
19	Calcium oxide		1Kg
20	Camphor sulphonic acid		500G
21	carboxymethyl cellulose (CMC)		100g
22	CCL ₄ (HPLC grade)		2.5 Lx5
23	Cerric Sulphate		250g
24	dichloromethane (HPLC grade)		2.5 Lx5
25	Chloroform (HPLC grade)		2.5 Lx5
26	Chloroform analytical grade		2.5Lx2
27	Cholesterol		Unit packing
28	Copper nitrate Cu(NO ₃) ₂		250g
29	Di sodium hydrogen phosphate		Unit packing
30	Dicyclohexylcarbodiimide(DCC)		100G
31	Diethyl ether Analytical Grade		2.5Lx2
32	Diisopropylcarbodiimide(DIC)		100G
33	Dimethylglyoxime (DMG)		100g
34	Dioxane (1-4)		2.5L
35	Disodium phosphate		1Kg
36	<i>Epoxy resin</i>		100g
37	Ethanol analytical grade		2.5Lx2
38	Ethanol commercial grade		200 Ltr
39	Ethyl acetate(HPLC grade)		2.5 Lx5
40	Ferric chloride		1Kg
41	Fluorescein Indicator		25g
42	Glycogen		Unit packing
43	H ₂ CO ₃		2.5 Lx2
44	H ₂ SO ₄		2.5 Lx5
45	H ₃ PO ₄		2.5 Lx5
46	HCL		2.5 Lx5
47	HNO ₃		2.5 Lx5
48	Hydrogen peroxide 30%		1L
49	Hydrogen peroxide 35%		1L
50	<i>Hydroxyethyl cellulose(HEC)</i>		100g
51	<i>Hydroxypropyl cellulose (HPC)</i>		100g
52	Hydroxypropyl methylcellulose(HPMC)		100g
53	Iodine		1Kg
54	iodoform		50g
55	isovaniline		100G
56	Lactic Acid		1Kg

57	L-tartaric acid		1KG
58	Lugols iodine solution		Unit packing
59	Magnesium carbonate		1Kg
60	Magnesium sulfate (anhydrous)		1KG
61	Methanol (HPLC grade)		2.5 Lx5
62	2-methoxypropene		500ml
63	Million reagent		Unit packing
64	Muroxide Indicator		25g
65	n. hexane (HPLC grade)		2.5 Lx5
66	n.Hexane analytical grade		2.5Lx2
67	NaNO ₂		Unit packing
68	NH ₃		2.5 Lx5
69	Nickel		1Kg
70	Ninhydrine		100G
71	Nitrous acid		100ml
72	Paraffin oil		2.5L
73	Para-toluene sulphonic acid		1KG
74	Para-tolunesulphonylchloride		1KG
75	Phenol red		500g
76	Phloroglucinol		Unit packing
77	Phosphoruspentaoxide (P ₂ O ₅) anhydrous		1KG
78	Potassium dihydrogen phosphate		Unit packing
79	Potassium Iodate (KIO ₃)		100g
80	Potassium iodide		2Kg
81	Potassium nitrate		2Kg
82	Potassium sulphate		1Kg
83	<u>PVC</u>		250gram
84	Pyridine		2.5 Lx2
85	Pyridine-2,6-dicarboxylic acid(Dipicolinic acid)		100G
86	Silica-Gel for TLC		1KG
87	Silica-Gel(column/chromatography grade)		1KGx2
88	Sodium bisulphate		50g
89	Sodium borate		100g
90	Sodium Borohydride		100G
91	Sodium bromide		1Kg
92	Sodium chloride		1KGx4
93	NaClO ₂		500g
94	Sodium citrate		Unit packing
95	Sodium fluoride		1Kg
96	Sodium hydroxide (pellets)		1KGx4
97	Sodium hypochlorite		1Kg
98	Sodium nitrate		1Kg
99	Sodium phosphate		1Kg
100	Sodium sulfate		1Kg

101	Sodium sulfite		1Kg
102	Sodium sulphate (anhydrous)		1KG
103	Standard Conductivity Solution of 12880 $\mu\text{S/cm}$, 1413 $\mu\text{S/cm}$ & 84 $\mu\text{S/cm}$		1 bottle (500ml) each
104	Tetra-acetylenediamine (TAED)		500g
105	TLC plates (aluminium sheets)		02 packs
106	TWEEN[®] 40 (Polyoxyethylenesorbitan monopalmitate)		500ml
107	Variamine blue		25g
108	Xylene		2.5 Lx2
109	Zinc		0.5Kg
110	zinc oxide		1Kg
111	zinc sulfate		1Kg
112			

List of Glassware for Department of Chemistry Main Campus Sheringal

1	Beakers Glass	1000ml	12 Nos.
2	Beakers Glass	500ml	24 Nos.
3	Beakers Glass	250ml	24 Nos.
4	Beakers Glass	100ml	48 Nos.
5	Beakers Glass	50ml	48 Nos.
6	Beakers Glass	25ml	24 Nos.
7	Glass Chromatographic tanks	Large	02 Nos.
8	Glass Chromatographic tanks	Medium	02 Nos.
9	Conical Flask	500ml	24 Nos.
10	Conical Flask	250ml	24 Nos.
11	Conical Flask	100ml	24 Nos.
12	Conical Flask	50ml	24 Nos.
13	Conical Flask	25ml	24 Nos.
14	Capillary tubes for melting point		06 packs
15	Condenser	24/29	04 Nos.
16	Single neck Distillation Flask (Pyrex)	5 Litre	02 Nos.
17	Single neck Distillation Flask (Pyrex)	2L	02 Nos.
18	Single neck Distillation Flask (Pyrex)	1L	02 Nos.
19	Single neck Distillation Flask (Pyrex)	500ml	02 Nos.
20	Single neck Distillation Flask (Pyrex)	250ml	02 Nos.
21	Sintered glass funnel	Large	03 Nos.
22	Sintered glass funnel	medium	03 Nos.
23	Funnel Glass	Small	48 Nos.
24	Funnel Glass	Large	48 Nos.
25	Glass Tubes (Pyrex) for blowing)	4 cm	12 Nos.
26	Glass Tubes (Pyrex) for blowing)	3cm	12 Nos.
27	Glass Tubes (Pyrex) for blowing)	1cm	48 Nos.
28	Glass Tubes (Pyrex) for blowing)	0.50cm	48 Nos.
29	Glass sample vials auto clauve	20ml	500 Nos.

30	Glass sample vials auto clauve	10ml	500 Nos.
31	Glass sample vials auto clauve	5ml	500 Nos.
32	Graduated Cylinder	100ml	24 Nos.
33	Graduated Cylinder	50ml	24 Nos.
34	Graduated Cylinder	25ml	24 Nos.
35	Graduated Cylinder	10ml	24 Nos.
36	Iron jag (flat) for distillation assembly	Large	03 Nos.
37	Magnetic Bars	Small	24 Nos.
38	Magnetic Bars	Med	24 Nos.
39	Magnetic Bars	Large	24 Nos.
40	Microscopic slides		06 packs
41	Pipette	10ml	24 Nos.
42	Pipette	5ml	24 Nos.
43	Pipette	2ml	24 Nos.
44	Pipette	1ml	24 Nos.
45	Pipette	0.5ml	24 Nos.
46	Pipett sucker (rubber)		06 Nos.
47	Q.Fit Round Bottom Flask (single neck) 24/29	1000ml	02 Nos.
48	Q.Fit Round Bottom Flask (single neck) 24/29	500ml	02 Nos.
49	Q.Fit Round Bottom Flask (single neck) 24/29	250ml	06 Nos.
50	Q.Fit Round Bottom Flask (single neck) 24/29	100ml	06 Nos.
51	Q.Fit Round Bottom Flask (single neck) 24/29	50ml	06 Nos.
52	Q. F. Round bottom flasks(Two neck), 24/29, 14/23	500 ml	06 Nos.
53	Q. F. Round bottom flasks(Two neck), 24/29, 14/23	250 ml	12 Nos.
54	Q. F. Round bottom flasks(Two neck), 24/29, 14/23	100ml	12 Nos.
55	Q. F. Round bottom flasks(Two neck), 24/29, 14/23	50ml	12 Nos.
56	Q. F. Round bottom flasks(Two neck), 24/29, 14/23	25ml	12 Nos.
57	Q. F. Thermometer 360 °C		12 Nos.
58	Reagent bottles(N/M)	500ml	24 Nos.
59	Reagent bottles(N/M)	250ml	24 Nos.
60	Reagent bottles(W/M)	500ml	24 Nos.
61	Reagent bottles(W/M)	250ml	24 Nos.
62	Rotary adapter	24/29	02 Nos.
63	Rotary adapter	24/29, 14/23	02 Nos.
64	Rotary adapter	24/29,19/26	02 Nos.
65	Separating funnel Pyrex	1000ml	02 Nos.
66	Separating funnel Pyrex	500ml	02 Nos.
67	Separating funnel Pyrex	250ml	02 Nos.
68	Separating funnel Pyrex	100ml	02 Nos.
69	Spatulas for Balance	Large	12 Nos.
70	Spatulas for Balance	Medium	12 Nos.
71	Spatulas for Balance	Small	12 Nos.

72	Specific Gravity Bottle	25cc	24 Nos.
73	Spray bottles (glass)	250 ml	12 Nos.
74	Spray bottles (glass)	100ml	12 Nos.
75	Vacuum Suction flasks	1000ml	03 Nos.
76	Vacuum Suction flasks	500ml	03 Nos.
77	Vacuum Suction flasks	250ml	03 Nos.
78	Teflon sample vials	Medium	1000 Nos.
79	Teflon sample vials	Small	1000 Nos.
80	TLC preparation assembly(stand)		01 Nos.
81	Parafilm (roll)		01 Nos.
82	Aluminum Foil Roll		1x5 Nos.
83	Crucibles (Small)		1x 15 Nos.
84	Crucibles (Large)		1x 15 Nos.
85	Gloves (rubber), Medium Size		1x 100 Nos.
86	Gloves (rubber), Large Size		1x 100 Nos.
87	Eye Goggles		1x 50 Nos.
88	Mortar and Pestle (Small)		1x 10 Nos.
89	Mortar and Pestle (Medium)		1x 10 Nos.
90	Mortar and Pestle (Large)		1x 10 Nos.
91	TLC Plates, on Aluminum sheet		1x 100 Nos.
92	Test Tubes stands		1x 15 Nos.
93	Thermometer (C)		1x5 Nos.
94	Thermometer (F)		1x5 Nos.
95	Thermometer (K)		1x5 Nos.
96	Plastic petridish		12 Nos.
97	Magnetic bar retrievers		10 pieces
98	Stainless steel Pinset		12 pieces
99	Eppendorf tubes 1.5ml		Unit packing
100	Falcon tubes (medium ,large)		Unit packing
101	Micro pippett tips various		Unit packing

List of Chemicals required for Biotechnology Department Main Campus Sheringal

S.#	Name of Item	Specification	Quantity
1	Calcium chloride (CaCl ₂ · 2H ₂ O)		500 grams
2	Magnesium sulphate (MgSO ₄ · 7H ₂ O)		500 grams
3	Monopotassium phosphate (KH ₂ PO ₄)		500 grams
4	Potassium nitrate (KNO ₃)		500 grams
5	Boric acid (H ₃ BO ₃)		01 Kg
6	Dinitrosalicylic acid		500 ml
7	Spirit		5 liters
8	Burner		04 Nos.
9	Glutaraldehyde		500 grams
10	Chitosan		500 grams
11	Bovine Serum Albumin (BSA)		200 grams

12	Cobalt chloride (CoCl ₂ · 6H ₂ O)	500 grams
13	Ferrous sulphate (FeSO ₄ · 7H ₂ O)	500 grams
14	Manganese(II) sulphate (MnSO ₄ · 4H ₂ O)	01 Kg
15	Potassium iodide (KI)	01 Kg
16	Sodium molybdate (Na ₂ MoO ₄ · 2H ₂ O)	500 grams
17	FeSO ₄ ·7H ₂ O	500 grams
18	Na ₂ -EDTA.	500 grams
19	Copper sulphate (CuSO ₄ · 5H ₂ O)	01 Kg
20	Glycine	01 Kg
21	Indole Acetic Acid	25 grams
22	NaOH	01 Kg
23	Tris-HCl	02 Kg
24	HCl	01 ml
25	Triton X 100	01 Liter
26	MgCl ₂	500 grams
27	Sodium citrate	500 grams
28	Sodium dodecyl sulphate (SDS)	500 grams
29	Ethanol	05 Liters
30	D. Sucrose	500 grams
31	2-mercapto-ethanol	500 grams
32	CTAB (cetyltrimethylammonium bromide)	500 grams
33	Phenol	01 Liter
34	Chloroform	2.5 Liters
35	Isoamylalcohol	01 Liter
36	Isopropanol	01 Liter
37	CaCl ₂	01 Kg
38	Ethidium bromide	05 ml
39	Gel Red	05 ml
40	n-butanol	05 Liters
41	Acetic alcohol	05 Liters
42	Proteinase K	01 ml
43	EDTA (ethylenediaminetetraacetic acid)	01 Kg
44	Ammonium/sodium acetate	500 grams
45	GeneRuler™ 1 Kb DNA Ladder	01 ml
46	DreamTaq PCR Master Mix (2X)	01 minimum pack
47	Ethanol Absolute 98-99%	05 ml
48	Roti® Phenol/Chloroform/Isoamyl Alcohol	500 ml
49	Agarose, molecular biology grad, High purity for preparative and analytical electrophoresis	01 Kg

	of nucleic acids >1000bp.		
50	Nutrient Broth		500 grams
51	Agar		01 Kg
52	Toluene 244511-1L		01 Liter
53	phosphoric acid P5811-500G		500 grams
54	Ninhydrin N4876-100G	Sigma or equivalent	100 grams
55	sulfosalicylic acid		100 grams
56	Tween 20		500 ml
57	NaCl		01 Kg
58	NaH ₂ PO ₄		500 grams
59	glacial acetic acid		01 Liter
60	Methanol		05 Liters
61	Coomassie blue		100 grams
62	standard protein marker (Sigma cat # C1992) 8 bands of different colours and sizes		01 ml
63	tetramethylethylenediamine (TEMED)		01 minimum pack
64	Acrylamide/Bis-acrylamide (29:1) (Sigma cat # A3574)		01 minimum pack
65	β-mercaptoethanol		50 ml
66	bromophenol blue		02 ml
67	Glycerol		01 Liter
68	PCR Master Mix Kit		05 Boxes
69	Lactose		100 grams
70	Maltose		100 grams
71	Starch		100 grams
72	Xylose		100 grams
73	DTT		25 grams
74	K ₂ HPO ₄		500 grams
75	Loading dye (Promega cat # G1881)		01min pack
76	dNTP Mix (25mM)		02 Nos.
77	Taq DNA polymerase		1000U
78	Whole Blood DNA extraction kit		01 No

List of Plastic/Glassware

79	Micro centrifuge tubes 1.5ml made of original polypropylene Yellow working temperature - 20 to 121°C, freeze proof, molded graduations, shaded writing area, autoclavable, RNase & DNase free.		01 No
80	Filter Tips 100µl, Cristal, Sterile Extended length Eppendorf pipets pre-racked 96 tips /		01 No

	box and 10 boxes per pack DNase and RNase free, -sterile Orange Scientific, Belgium		
81	50ml Centrifuge Tube, Conical bottom, Gamma sterilize RNase-free, DNase-free and non-pyrogenic. Maximum RCF 9,400xg and temperature range from -80 to 120°C. ISO 9001: 2008 ISO 13485: 2003 CE Mark BioSorfa USA		01 No
82	Petri Dish Fully Stackable 90x15 mm		01 No
83	Flat Cap PCR Tubes (RNase & DNase Free) 0.2 ml		01 No
84	Culture Loops		01 No
85	Autoclave Bottles		01 No

List of Instruments required for Environmental Sciences Department Main Campus Sheringal

S.#	Name of Item	Specification	Quantity
1	Digestion box	Digestion box, LabTech Model digiBlock EHD 36; Tube quantity 36 Tube size 50 mL; Voltage 230V, 50/60 Hz	01 No
2	Lab pH meter	Lab pH meter inoLab® pH 7110 complete set with temperature and precision sensor	02 Nos.
3	Laboratory conductivity meter	Laboratory conductivity meter inoLab® Cond 7310	01 No
4	Distilled water Assembly	Distilled water Assembly favorit W 4L, Made in Malaysia	01 No
5	Compass (Brunton)	Compass (Brunton) Model TruArc 7 mirror compass Made in USA	02 No
6	Fluoride meter	HI-739 Fluoride High Range handheld colorimeter, Checker®HC	02 No
7	Auto Clave Vertical	Auto Clave Vertical Autoclave LVA-D11 Capacity 50 L; Sterilization Temperature 134 °C; Sterilization Pressure 0.22 Mpa; Chamber Dimension (Φ × D) 340 × 550 mm; Timer Range 0 - 99 min; Heat Average $\leq \pm 1$ °C	01 No
8	Scanner cum Printer	HP LaserJet Pro M1136 Multi function Laser Printer	01 No
9	Muffle Furnace	Muffle Furnace Model: MF-4A, Capacity: 673in ³ with a pair of tongs steel made	01 No
10	COD Digester	COD Digester with COD Vials, Model: HANNA HI 839800 COD Digester	01 No
11	COD Vials	COD Vials	100 No
12	BOD Meter	BOD EVO Sensor System 6 including Wireless DataBox™	01 No
13	UV-visible spectrophotometer	UV-visible spectrophotometer BK S	01 No

		380 Biobase China; Wavelength Accuracy: $\pm 0.3\text{nm}$, Wavelength Repeatability: $\leq 0.2\text{nm}$, Photometric Accuracy: $\pm 0.002\text{A}$ (0~0.5Abs), $\pm 0.004\text{A}$ (0.5~1.0Abs), $\pm 0.3\%$ T (0~100% T), Photometric Repeatability: 0.001Abs (0~0.5Abs), 0.002Abs (0.5~1.0Abs), $\leq 0.1\%$ T (0~100% T)	
14	Cryovials	Cryovials T310 Series (05 mL)	1000 No
15			

List of Chemicals required for Environmental Sciences Department Main Campus Sheringal

S.#	Name of Item	Specification	Quantity
1	1,10 Phenanthroline		01 kg
2	Acetonitrile		02Bottles
3	Activated Charcoal		02 kg
4	Agar		01 kg
5	Ammonium chloride		01 kg
6	Ammonium fluoride		01 kg
7	Ammonium formate		01 Bottle
8	Arabinose		01 kg
9	Benzene		02 Bottle
10	Calcium carbonate		01 kg
11	Calcium Chloride		01 kg
12	Carboxy-methylcellulose agar		01 kg
13	Casein acid hydrolysate		01 kg
14	Cellobiose		01 kg
15	Chloroamphenicol		01 kg
16	Chrome Azurol S (CAS) agar		01 kg
17	colloidal chitin agar		01 kg
18	Dextrin		01 kg
19	Dichloromethane		02 Bottle
20	Diphenylamine salt		01 kg
21	Dipotassium phosphate		01 kg
22	Ethyl Acetate		01 kg
23	FeCl ₃ .6H ₂ O		01 kg
24	Ferrous sulphate heptahydrate		01 kg
25	FeSO ₄		01 kg
26	Formic Acid		01 Bottle
27	Fructose		01 kg
28	Galactose		01 kg
29	Glucose		01 kg
30	Hydrogen peroxide		02Bottles
31	K ₂ Kr ₂ O ₇		01 kg
32	KCl		01 kg
33	KH ₂ PO ₄		01 kg
34	KOH		01 kg

35	Lactose		01 kg
36	Lead acetate (Pb(CH ₃ COO) ₂)		01 kg
37	Lithium sulphate		01 kg
38	Magnesium sulfate anhydrous		01 kg
39	Magnesium sulfate. 7H ₂ O		01 kg
40	Maltose		01 kg
41	Mercury chloride		01 kg
42	Methanol		02Bottles
43	Methyl Chloride		01 Bottle
44	Millipore filters (0.22 µm)		500 NO
45	MnCl ₂		01 kg
46	MnSO ₄		01 kg
47	Nalidixic acid		01 kg
48	Neomycin		01 kg
49	n-Hexane		02 Bottles
50	NiCl ₂		01 kg
51	orthophosphoric acid		01 Bottle
52	peptone water		01 Bottle
53	picric acid		01 kg
54	Potassium tetraiodomercurate (II) (Hgl ₄ K ₂)		01 kg
55	Potato Dextrose Agar		01 kg
56	Primary scndary amine		01 Bottle
57	Proteose peptone		01 kg
58	Silica gel activated		01 kg
59	Skim milk agar		01 kg
60	Sodium Arsenate		01 kg
61	Sodium Arsenite		01 kg
62	Sodium citrate		01 kg
63	Sodium hydroxide		01 kg
64	Sodium pyruvate		01 kg
65	Sodium salicylate		01 kg
66	Sodium tartrate		01 kg
67	Soluble starch		01 kg
68	Sorbitol		01 Kg
69	Streptomycin		25 g
70	Woolen bags		500 No
71			

