

Tender Notice No. A-21011/19/2019-GOV COLLEGE DIU-Part(1)/341

Date: 25/03/2021

**TENDER DOCUMENT FOR SUPPLY OF LABORATORY CHEMICALS AND  
INSTRUMENTS FOR DIU HIGHER EDUCATION SOCIETY, EDUCATION  
HUB, KEVDI, DIU- 362520.**

**Through Online tendering process only**

**Price: Rs.1,000/- (Rupees One Thousand Only)**

**Estimated Cost of Tender: Rs.21,45,000/- (Rupees Twenty One Lakh  
Forty Five Thousand Only)**

**Pre Bid Meeting Date: 02-04-2021 at 11:00 am**

**DIU HIGHER EDUCATION SOCIETY**

U.T. Administration of Daman & Diu,  
Office of the Principal, Diu College, Education Hub,  
Kevdi, Diu - 362520  
Phone-02875-254115  
Email:acct.dcd@gmail.com

## Section-1

DIU HIGHER EDUCATION SOCIETY, DIU  
U.T. ADMINISTRATION OF DAMAN & DIU  
OFFICE OF THE PRINCIPAL  
DIU COLLEGE, EDUCATION HUB, KEVDI, DIU – 362520 (U.T.)

*Dated: 25-03-2021*

### E-PROCUREMENT TENDER NOTICE

The Principal, Diu College, Diu on behalf of the Diu Higher Education Society, Diu invites tenders under Two Bids System (Technical and Financial) from reputed & eligible agencies through e-procurement for the **Supply of Laboratory Chemicals & Instruments.**

Particular	Details/Date
Bid Document Download Start Date	26-03-2021, 11:00 AM
Bid Submission Start Date	26-03-2021, 11:00 AM
Bid Submission End Date	19-04-2021, 04:00 PM

#### Notes:

(i) All details regarding the subject tender are available on our websites [www.diucollege.ac.in](http://www.diucollege.ac.in) and <https://ddtenders.gov.in>. Bidders are therefore, requested to visit our websites regularly to keep themselves updated.

**(ii) Manual/hardcopy of Technical bid is required to be sent at Diu College, Education Hub Kevdi, Diu – 362520. Hard copy of Financial Bid shall not be accepted.**

(iii) For submission of E-Bids, bidders are required to get themselves registered with <https://ddtenders.gov.in>. Tenders should be submitted before the end date and time of bid submission. Failing which offer will be liable for rejection. Papers related to company details (Copies of TIN No., PAN No, Sales Tax & Income Tax registration, GST, etc) and product details (Printed product specification sheet and other brochure/ leaflets etc.) should also be uploaded by bidders along with bids.

(iv) Clarifications/ queries, if any, can be addressed to the Principal, Diu College, Diu.

(v) Bidder can contact on phone no. 9277757578 and email: [acct.dcd@gmail.com](mailto:acct.dcd@gmail.com) for any query.

Principal/ Dy. Collector,  
Diu College, Diu

## Section-2

### INFORMATION & INSTRUCTIONS FOR BIDDERS

Tenders containing commercial bids are invited under e-procurement scheme for the following item as per the specifications given in Section 3. Your quotation should be submitted latest by 04.00 PM on 19<sup>th</sup> April, 2021.

The details of the tender, items (s) and their technical specification are as under:

Tender Type	Open
Product Category	Goods (Laboratory Chemicals & Instruments)
Bid Submission Start Date	26-03-2021, 11:00 AM
Bid Submission End Date	19-04-2021, 04:00 PM
Bid Document Fee	Non-refundable Rs.1,000/- (Rs. One Thousand Only) in the form of Demand draft.
Bid Document Fee payable to	“The Collector & Chairman, Principal & Member Secretary DHES, Diu” Payable at Diu
Bid EMD (INR)	Rs. 54,000/- (Rs. Fifty Four Thousand only) in the form of FDR
Bid EMD in favour of	“The Collector & Chairman, Principal & Member Secretary DHES, Diu” Payable at Diu
Security Deposit	10% of the total amount of work-order in the form of FDR.
Security Deposit in favour of	“The Collector & Chairman, Principal & Member Secretary DHES, Diu” Payable at Diu

## **1. Bid Submission**

**“Technical Bid”** shall be submitted as per **Section 3**

**“Financial Bid”** shall be submitted as per **Section 4**

Bids shall be submitted online only on <https://ddtenders.gov.in>.

Tenderer/contractor are advised to follow the instructions provided in the ‘Instructions to the Contractor/Tenderer’ for the e-submission of the bids online through the Central Public Procurement Portal for e-procurement at <https://ddtenders.gov.in>.

Tenderer who has downloaded the tender from the college website [www.diucollege.ac.in](http://www.diucollege.ac.in) and Central Public Procurement Portal (CPPP) <https://ddtenders.gov.in>, shall not tamper/modify the tender form including downloaded price bid template in any manner. In case if the same is found to be tempered/ modified in any manner, tender will be completely rejected and tenderer is liable to be banned from doing business with Diu Higher Education Society.

Intending tenderers are advised to visit again college website [www.diucollege.ac.in](http://www.diucollege.ac.in) and CPP Portal <https://ddtenders.gov.in> at least 3 days prior to closing date of submission of tender for any corrigendum / addendum/ amendment.

## **2. OPENING OF FINANCIAL BID AND EVALUATION**

Financial bids of eligible bidder will be opened. The lowest financial bid in respect all Laboratory chemicals & instruments will be considered award of work.

## **3. FINAL DECISION MAKING AUTHORITY**

The Principal, Diu College reserves the right to accept or reject any bid and to annul the process and reject all bids at any time, without assigning any reason or incurring any liability to the bidders. No claim whatsoever will be entertained/paid by the Diu College or Diu Higher Education Society to the bidder(s).

## **4. SUMMARY REJECTION OF TENDER:**

The tenders after due date and time shall be summarily rejected. Similarly, if the bidder proposes any alternation in or additions to the prescribed form of tender or decline to carry out any work of the tender document; or any conditions mentioned, etc., his/her tender is liable to be rejected.

## **5. AMENDMENT OF TENDER DOCUMENT:**

Before the deadline for submission of tender, the Diu College or Diu Higher Education Society may modify the tender document by issuing addendum/corrigendum.

6. Any addendum/corrigendum thus issued shall be a part of the tender document and shall be uploaded on the college website ([www.diucollege.ac.in](http://www.diucollege.ac.in)) and CPP portal <https://ddtenders.gov.in>. Prospective bidders must visit the website before filling and submission of Tender Document for such information.

## **7. ARBITRATION AND SETTLEMENT OF DISPUTES:**

In the event of any question, dispute or difference arising under this agreement or in connection therewith (except as to matter the decision of which is specifically provided under this agreement), the decision of the Collector & Chairman, EC, DHES Diu will be final.

## **8. TERMS OF PAYMENT**

- Payments will be made by DHES/ Diu College or Principal directly to the bidder as per the rates finalized in the Tender and after completion of the assignments. (When 100% goods are supplied against the particular order).
- No advance will be paid.
- Following documents are to be presented by the successful bidder for payment after Supply of Books to Diu College:
  - Duplicates of invoices in name of The Principal, Diu College.
  - Proof of Delivery of Goods to Diu College
  - Request letter clearly mentioning the total amount of payment,
  - Bank details
  - PAN Card details and GST Registration details
  - Payment shall be made in Indian Rupees against completion of work.

## **9. INSTRUCTIONS FOR ONLINE BID SUBMISSION:**

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://ddtenders.gov.in>.

## 10. REGISTRATION

Bidders are required to enrol on the e-Procurement module of the Central Public Procurement Portal (URL: <https://ddtenders.gov.in>).

## 12. PREPARATION OF BIDS

1) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.

2) Bidder should take into account any corrigendum published on the tender document before submitting their bids.

3) Language of Bid: The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser shall be written in English language. In case, the supporting documents and printed literature furnished by the Bidder are in some other language, then an accurate translation in the English language must be provided (if asked by Diu College).

4) Documents Constituting the Bid

The bid is required to be submitted in **two parts** separately

- One part is the **Un-priced Technical Bid**, and
- The other part is the **Financial/Price Bid (Volume 2)**.

### A) Technical bid (un-priced)

The Technical bid (un-priced) prepared by the Bidder shall include the following documents without indicating the price in the technical Bid. The Technical offer should be complete in all respects, and submitted **Online & Offline**.

- i. **Annexure I** - Covering letter/Tender acceptance letter as per given format.
- ii. **Annexure II** - Attach information on The Company profile as per format.
- iii. **Section 3** - Technical bid with item details and eligibility fulfilment

Technical Bids with **incomplete documentation & details shall be rejected**.

## **B. Instructions for Financial/Price Bid (Volume 2)**

- (i) The Financial offer should be complete in all respects, and submitted **Online Only**.
- (ii) The Price/Financial Bid shall include all the details as per the format.
- (iii) The Bidder shall indicate the unit prices and total bid prices of the goods it proposes to supply under the order and enclose it with the priced bid.
- (iv) Prices indicated shall be entered separately for each item.
- (v) Please note Diu College is exempted from payment of Excise/Customs Duty. Please mention the applicable taxes (GST/VAT/CST/Service) clearly. We don't issue any 'Form C' or 'Form D'. If there is no explicit mention of taxes in your offer then the quoted price will be deemed inclusive of such taxes. No other charges except those mentioned clearly in the offer will be paid.
- (vi) Rates should be quoted for delivery up to Diu Higher Education Society, Office of The Principal, Diu College, Education Hub, Kevdi, Diu – 362520.
- (vii) The price should be quoted inclusive of all taxes, installation & commissioning charges any other tax/charge applicable. Bidder must quote in Rupees only.
- (viii) Price will be valid for the period of 12 month from the date of receipt of tender.
- (ix) No extra charge for packaging, forwarding and insurance, transportation etc. will be paid in addition to the rates quoted.
- (x) A bid submitted with an adjustable price quotation will be treated as non - responsive and rejected.

## **13. SUBMISSION OF BIDS**

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as “offline” to pay the tender fee (Rs.1000) / EMD (Rs. 54,000) as applicable and enter details of the instrument.
- 4) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable.

- 5) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 6) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid.

#### **14. ASSISTANCE TO BIDDERS**

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

#### **15. Eligibility Criteria**

Only such of the bidders who meet the eligibility criteria specified below will be eligible to respond to this notice inviting tender (NIT). The pre-qualification criteria for the participating bidders are as given below:

- a) The Bidder should be Registered Firm/Company or OEM / Authorized Dealer/Distributor /Supplier of OEM. As proof of same an attested copy of TIN No. and PAN No should be submitted. Sales Tax, Income Tax & GST registrations also need to be furnished along with the technical bid. Bids from authorized distributors/ dealer/supplier of OEM shall also be accepted, subjected to the furnishing of a certificate from OEM authorizing them to bid on their behalf.
- b) The proof of the bidders (authorized representative firm/Company/OEM) as income Tax assessee (In the form of income Tax Return) for at least last **Three years** should be enclosed.
- c) The bidder should be in the business of supplying chemicals to reputed Educational institutes (Institutions and recognized Universities etc.).
- d) Bidder should not be blacklisted by Central Government, State Government or any other Institute(s) / Organization.



**Annexure – I**  
**Covering letter/tender acceptance letter**  
**(Format of the letter to be submitted by the Vendor on company letter head)**

To  
The Principal  
Diu College,  
Education Hub,  
Kevdi,  
Diu – 362520.

Date:.....

Dear Sir,

Sub: Your tender for **Supply of Laboratory Chemicals & Instruments** as per specifications in your Tender.

With reference to your tender, and after having examined and understood the instructions, terms and conditions specified in the tender, we hereby enclose our offer for the supply of the following items as detailed in your tender.

We further declare that

1. I/We have downloaded/obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely:.....  
As per your advertisement, given in the above mentioned website(s).
2. I/We hereby certify that I/we have read the entire terms and conditions of the tender documents from Page No. \_\_\_\_\_ to \_\_\_\_\_ (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I/we shall abide hereby by the terms / conditions/ clauses contained therein.
3. The corrigendum(s) issued from time to time by your department / organization too has also been taken into consideration, while submitting this acceptance letter.
4. I/we hereby unconditionally accept the tender conditions of above mentioned tender document(s)/corrigendum(s) in its totality/entirely.
5. I/we do hereby declare that our firm has not been blacklisted/debarred by any Govt. Department/Public Sector undertaking.
6. I/we certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or

remedy including the forfeiture of the full said earnest money deposit absolutely.

We further confirm that the offer is in conformity with the terms and conditions as mentioned in your above referred letter and enclosures. We also understand that the Diu College or Diu Higher Education Society is not bound to accept the offer either in part or in full and has right to reject the offer in full or in part without assigning any reasons whatsoever.

Yours faithfully,  
Authorized Signatories  
(Name & Designation, seal of the firm)  
Date:

## **Annexure - II**

### **Company Profile**

**Details filled in this form must be accompanied by sufficient documentary evidence, in order to verify the correctness of the information.**

<b>Sr. No.</b>	<b>Item</b>	<b>Details</b>
1	Name of Company	
2	Mailing Address	
3	Telephone and Fax numbers	
4	Date of registration of the Company	
5	Year of commencement of Business	
6	Name and designation of the person authorized to make commitments to the College	
7	Contact details of the person authorized to make commitments to the College	
8	Sales Tax Number/ TIN Number	
9	PAN Number	
10	GST Number	
11	Whether direct manufacturer (OEM) or authorized dealer/representative	

Yours faithfully,  
Authorized Signatories  
(Name & Designation)  
Date:

### Section 3

#### TECHNICAL BID

- A. Name of the Company
- B. Address (with Tele No. fax No. & e-mail)
- C. Contact person Name and mobile number
- D. (a) The number of years of experience in supply of Chemical & Instruments.  
(b) Total value per year of Business during the last three years (Attested certificate from Chartered Accountant should be attached.)
- E. (a) Registration Number  
(b) VAT/GST number  
(c) PAN Number
- F. Technical details as per given under specification:  
**Technical specifications for supply of Laboratory Chemicals.**

## Volume 2-Financial Bid

Commercial/Financial/Price bid should be prepared in the following format

Financial bid for Laboratory Chemicals & Instruments

Dated: 25-03-2021

### Note:

1. Chemicals, Media, Salt & Reagents will be supplied from Merck, SRL, Hi-media & Sigma
2. In case of any situation, Price will not be quoted more than the MRP mentioned on the product as per GST rules.

### Supply of Laboratory Chemicals & Instruments:

Sr. No	Particular of Laboratory Chemicals and Instrument	Quantity	Units	Price Inclusive of all taxes and charges
1.	2,4-Dimethylaniline [C <sub>8</sub> H <sub>11</sub> N]	250	ml	
2.	Acetanilide [C <sub>8</sub> H <sub>9</sub> NO]	500	gram	
3.	Acetic Acid Glacial [CH <sub>3</sub> COOH]	7500	ml	
4.	Acetic Anhydride [(CH <sub>3</sub> CO) <sub>2</sub> O]	1000	ml	
5.	Acetone [(CH <sub>3</sub> ) <sub>2</sub> CO]	10000	ml	
6.	Acetophenone [C <sub>6</sub> H <sub>5</sub> C(O)CH <sub>3</sub> ]	500	ml	
7.	DL - Alanine [C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub> ] for chromatography	5	gram	
8.	Aluminium chloride [AlCl <sub>3</sub> ]	250	gram	
9.	Aluminium sulphate [Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> ]	500	gram	
10.	Ammonia solution [NH <sub>4</sub> OH]	2500	ml	
11.	Ammonium bromide [NH <sub>4</sub> Br]	500	gram	
12.	Ammonium carbonate [(NH <sub>4</sub> ) <sub>2</sub> CO <sub>3</sub> ]	500	gram	
13.	Ammonium chloride [NH <sub>4</sub> Cl]	1000	gram	
14.	Ammonium Ferric Sulphate dodecahydrate [NH <sub>4</sub> Fe(SO <sub>4</sub> ) <sub>2</sub> ].12H <sub>2</sub> O	500	gram	
15.	Ammonium ferrous sulphate hexahydrate [FeSO <sub>4</sub> (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> .6H <sub>2</sub> O]	500	gram	
16.	Ammonium oxalate [(NH <sub>4</sub> ) <sub>2</sub> C <sub>2</sub> O <sub>4</sub> -]	500	gram	
17.	Ammonium sulphate [(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> ]	500	gram	
18.	Aniline [C <sub>6</sub> H <sub>5</sub> NH <sub>2</sub> ]	500	ml	
19.	D - Arginine [C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub> ] for chromatography	1	gram	

20.	Arsenic trioxide [As <sub>2</sub> O <sub>3</sub> ]	500	gram	
21.	Barium carbonate [BaCO <sub>3</sub> ]	500	gram	
22.	Barium chloride [BaCl <sub>2</sub> ]	500	gram	
23.	Barium nitrate [Ba(NO <sub>3</sub> ) <sub>2</sub> ]	500	gram	
24.	Benzaldehyde [C <sub>6</sub> H <sub>5</sub> CHO]	500	ml	
25.	Benzamide [C <sub>6</sub> H <sub>5</sub> C(O)NH <sub>2</sub> ]	500	gram	
26.	Benzanilide [C <sub>6</sub> H <sub>5</sub> C(O)NHC <sub>6</sub> H <sub>5</sub> ]	100	gram	
27.	Benzene [C <sub>6</sub> H <sub>6</sub> ]	500	ml	
28.	Benzoic acid [C <sub>6</sub> H <sub>5</sub> COOH]	500	gram	
29.	Benzophenone [(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> CO]	500	gram	
30.	Benzoyl chloride [C <sub>6</sub> H <sub>5</sub> COCl]	500	ml	
31.	Borax powder	500	gram	
32.	Bromine (Br <sub>2</sub> ) water	500	ml	
33.	Bromine [Br <sub>2</sub> ]	100	ml	
34.	Bromopyrogallol Red indicator	5	gram	
35.	Butanone [CH <sub>3</sub> C(O)CH <sub>2</sub> CH <sub>3</sub> ]	500	ml	
36.	Calcium carbonate [CaCO <sub>3</sub> ]	500	gram	
37.	Calcium chloride [CaCl <sub>2</sub> ]	500	gram	
38.	Calcium chloride dihydrate [CaCl <sub>2</sub> .2H <sub>2</sub> O]	500	gram	
39.	Calcium sulphate [CaSO <sub>4</sub> ]	500	gram	
40.	Carbon tetrachloride [CCl <sub>4</sub> ]	1000	ml	
41.	Catechol [C <sub>6</sub> H <sub>4</sub> (OH) <sub>2</sub> ]	500	gram	
42.	Ceric ammonium nitrate [(NH <sub>4</sub> ) <sub>2</sub> Ce(NO <sub>3</sub> ) <sub>6</sub> ]	100	gram	
43.	Chlorine (Cl <sub>2</sub> ) water	500	ml	
44.	Chlorobenzene [C <sub>6</sub> H <sub>5</sub> Cl]	500	ml	
45.	Chloroform [CHCl <sub>3</sub> ]	2500	ml	
46.	Chromium trichloride hexahydrate [CrCl <sub>3</sub> . 6H <sub>2</sub> O]	500	gram	
47.	Cinnamic acid [C <sub>9</sub> H <sub>8</sub> O <sub>2</sub> ]	500	gram	
48.	Cobalt chloride hexahydrate [CoCl <sub>2</sub> .6H <sub>2</sub> O]	500	gram	
49.	Cobalt nitrate hexahydrate [Co(NO <sub>3</sub> ) <sub>2</sub> .6H <sub>2</sub> O]	100	gram	
50.	Copper (Cu) foil	250	gram	
51.	Copper (Cu) powder	250	gram	
52.	Copper chloride anhydrous [CuCl <sub>2</sub> ]	500	gram	
53.	Copper chloride dihydrate [CuCl <sub>2</sub> . 2H <sub>2</sub> O]	500	gram	
54.	Copper sulphate pentahydrate [CuSO <sub>4</sub> .5H <sub>2</sub> O]	500	gram	
55.	Diammonium phosphate [(NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub> ]	500	gram	
56.	Diethyl ether [O(CH <sub>2</sub> CH <sub>3</sub> ) <sub>2</sub> ]	500	ml	

57.	Dimethyl ether [O(CH <sub>3</sub> ) <sub>2</sub> ]	1000	ml	
58.	Dimethylglyoxime [DMG]	250	gram	
59.	Diphenylamine [(C <sub>6</sub> H <sub>5</sub> ) <sub>2</sub> NH]	250	gram	
60.	Eriochrome Black T indicator	25	gram	
61.	Ethyl acetate [CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub> ]	7500	ml	
62.	Ethylenediaminetetraacetate (di sodium salt) [EDTA]	2000	gram	
63.	Ferric chloride [FeCl <sub>3</sub> ]	500	gram	
64.	Ferric chloride hexahydrate [FeCl <sub>3</sub> ·6H <sub>2</sub> O]	100	gram	
65.	Ferrous sulphate heptahydrate [FeSO <sub>4</sub> ·7H <sub>2</sub> O]	500	gram	
66.	Ferrous sulphide [FeS]	1000	gram	
67.	Glucose [C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> ]	500	gram	
68.	Glutaric acid [C <sub>3</sub> H <sub>6</sub> (COOH) <sub>2</sub> ]	100	gram	
69.	Glycerine [C <sub>3</sub> H <sub>8</sub> O <sub>3</sub> ]	500	ml	
70.	Glycine [C <sub>2</sub> H <sub>5</sub> NO <sub>2</sub> ] for chromatography	5	gram	
71.	Hexamine powder	500	gram	
72.	D-Histidine [C <sub>6</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub> ] for chromatography	5	gram	
73.	Hydrochloric acid [HCl]	5000	ml	
74.	Iodine (solid) [I <sub>2</sub> ] resublimed	100	gram	
75.	Lead acetate [PbCH <sub>3</sub> COOH]	500	gram	
76.	Lead nitrate [Pb(NO <sub>3</sub> ) <sub>2</sub> ]	500	gram	
77.	L-Lysine [C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub> ] for chromatography	5	gram	
78.	Magnesium carbonate [MgCO <sub>3</sub> ]	250	gram	
79.	Magnesium nitrate [Mg(NO <sub>3</sub> ) <sub>2</sub> ]	500	gram	
80.	Magnesium sulphate [MgSO <sub>4</sub> ]	500	gram	
81.	Malonic acid [CH <sub>2</sub> (COOH) <sub>2</sub> ]	250	gram	
82.	Manganese chloride tetrahydrate [MnCl <sub>2</sub> ·4H <sub>2</sub> O]	500	gram	
83.	Manganese sulphate monohydrate [MnSO <sub>4</sub> ·H <sub>2</sub> O]	500	gram	
84.	m-cresol [CH <sub>3</sub> C <sub>6</sub> H <sub>4</sub> (OH)]	500	ml	
85.	m-dinitrobenzene [C <sub>6</sub> H <sub>4</sub> (NO <sub>2</sub> ) <sub>2</sub> ]	500	gram	
86.	Mercury chloride [HgCl <sub>2</sub> ]	25	gram	
87.	Methanol [CH <sub>3</sub> OH]	5000	ml	
88.	DL-Methionine [C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> S] for chromatography	5	gram	
89.	Methyl acetate [CH <sub>3</sub> COOCH <sub>3</sub> ]	500	ml	
90.	methyl orange indicator	25	gram	
91.	Methyl salicylate [C <sub>6</sub> H <sub>4</sub> (OH)(CO <sub>2</sub> CH <sub>3</sub> )]	500	ml	
92.	Murexide indicator	25	gram	
93.	N,N-dimethyl aniline [C <sub>8</sub> H <sub>11</sub> N]	500	ml	
94.	n-amylalcohol [CH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> OH]	500	ml	

95.	n-butanol [C <sub>4</sub> H <sub>9</sub> OH]	5000	ml	
96.	Naphthalene [C <sub>10</sub> H <sub>8</sub> ]	500	gram	
97.	n-butylalcohol [C <sub>4</sub> H <sub>9</sub> OH]	2500	ml	
98.	Nessler reagent	100	ml	
99.	n-hexane [C <sub>6</sub> H <sub>14</sub> ]	2500	ml	
100.	Nickel chloride hexahydrate [NiCl <sub>2</sub> .6H <sub>2</sub> O]	500	gram	
101.	Nickel sulphate heptahydrate [NiSO <sub>4</sub> .7H <sub>2</sub> O]	500	gram	
102.	Ninhydrin [C <sub>9</sub> H <sub>6</sub> O <sub>4</sub> ]	25	gram	
103.	Nitric acid [HNO <sub>3</sub> ]	2500	ml	
104.	n-propylalcohol [C <sub>3</sub> H <sub>7</sub> OH]	500	ml	
105.	o-cresol [CH <sub>3</sub> C <sub>6</sub> H <sub>4</sub> (OH)]	500	ml	
106.	o-nitroaniline [H <sub>2</sub> NC <sub>6</sub> H <sub>4</sub> NO <sub>2</sub> ]	250	gram	
107.	o-nitrophenol [HOC <sub>6</sub> H <sub>4</sub> NO <sub>2</sub> ]	100	gram	
108.	Oxalic acid [(COOH) <sub>2</sub> ]	500	gram	
109.	p-cresol [CH <sub>3</sub> C <sub>6</sub> H <sub>4</sub> (OH)]	500	ml	
110.	pH 7 tablet box	4	box	
111.	pH 10 tablet box	4	box	
112.	Phenol [C <sub>6</sub> H <sub>5</sub> OH]	500	gram	
113.	DL-Phenyl alanine [C <sub>9</sub> H <sub>11</sub> NO <sub>2</sub> ] for chromatography	5	gram	
114.	Phenyl salicylate [C <sub>13</sub> H <sub>10</sub> O <sub>3</sub> ]	100	gram	
115.	Phosphoric acid [H <sub>3</sub> PO <sub>4</sub> ]	500	ml	
116.	Phthalic acid [C <sub>6</sub> H <sub>4</sub> (COOH) <sub>2</sub> ]	500	gram	
117.	Phthalic anhydride [C <sub>6</sub> H <sub>4</sub> (CO) <sub>2</sub> O]	1000	gram	
118.	p-nitrophenol [HOC <sub>6</sub> H <sub>4</sub> NO <sub>2</sub> ]	100	gram	
119.	Potassium bromide [KBr]	500	gram	
120.	Potassium carbonate [K <sub>2</sub> CO <sub>3</sub> ]	500	gram	
121.	Potassium chloride [KCl]	500	gram	
122.	Potassium chromate [K <sub>2</sub> CrO <sub>4</sub> ]	500	gram	
123.	Potassium dichromate [K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> ]	500	gram	
124.	Potassium iodide [KI]	500	gram	
125.	Potassium nitrate [KNO <sub>3</sub> ]	500	gram	
126.	Potassium nitrite [KNO <sub>2</sub> ]	250	gram	
127.	Potassium permanganate [KMnO <sub>4</sub> ]	500	gram	
128.	Potassium sulphate [K <sub>2</sub> SO <sub>4</sub> ]	500	gram	
129.	Potassium thiocyanate [KCNS]	500	gram	
130.	p-toludine [C <sub>6</sub> H <sub>4</sub> CH <sub>3</sub> NH <sub>2</sub> ]	500	gram	
131.	Quinhydrone powder	100	gram	
132.	Resorcinol [C <sub>6</sub> H <sub>4</sub> (OH) <sub>2</sub> ]	100	gram	



133.	Rubinic acid [C <sub>30</sub> H <sub>46</sub> O <sub>4</sub> ]	5	gram	
134.	Salicylaldehyde [C <sub>7</sub> H <sub>6</sub> O <sub>2</sub> ]	500	ml	
135.	Salicylic acid [C <sub>7</sub> H <sub>6</sub> O <sub>3</sub> ]	500	gram	
136.	Schiff's reagent	500	ml	
137.	Silica powder (for chromatography)	2000	gram	
138.	Silver nitrate [AgNO <sub>3</sub> ]	10	gram	
139.	Sodalime	500	gram	
140.	Sodium (Na) metal pieces	50	gram	
141.	sodium acetate [CH <sub>3</sub> COONa]	500	gram	
142.	Sodium bicarbonate [NaHCO <sub>3</sub> ]	500	gram	
143.	Sodium disulfite [NaHSO <sub>3</sub> ]	500	gram	
144.	Sodium bromide [NaBr]	500	gram	
145.	Sodium carbonate [Na <sub>2</sub> CO <sub>3</sub> ]	500	gram	
146.	Sodium chloride [NaCl]	500	gram	
147.	Sodium hydroxide [NaOH]	2000	gram	
148.	Sodium nitrate [NaNO <sub>3</sub> ]	500	gram	
149.	Sodium nitrite [NaNO <sub>2</sub> ]	1000	gram	
150.	Sodium phosphate dibasic [Na <sub>2</sub> HPO <sub>4</sub> ]	500	gram	
151.	Sodium phosphate tribasic [Na <sub>3</sub> PO <sub>4</sub> ]	500	gram	
152.	Sodium thiosulfate pentahydrate [Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> .5H <sub>2</sub> O]	2000	gram	
153.	β-naphthol [C <sub>10</sub> H <sub>7</sub> OH]	500	gram	
154.	Starch powder (soluble)	500	gram	
155.	Strontium chloride [SrCl <sub>2</sub> ]	500	gram	
156.	Strontium nitrate [Sr(NO <sub>3</sub> ) <sub>2</sub> ]	500	gram	
157.	Succinic acid [C <sub>4</sub> H <sub>6</sub> O <sub>4</sub> ]	500	gram	
158.	Sucrose [C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> ]	500	gram	
159.	Sulphanilic acid [C <sub>6</sub> H <sub>7</sub> NO <sub>3</sub> S]	500	gram	
160.	Sulphuric acid [H <sub>2</sub> SO <sub>4</sub> ]	5000	ml	
161.	Tartaric acid [C <sub>4</sub> H <sub>6</sub> O <sub>6</sub> ]	500	gram	
162.	Toluene [C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub> ]	500	ml	
163.	L-Tyrosine [C <sub>9</sub> H <sub>11</sub> NO <sub>3</sub> ] for chromatography	5	gram	
164.	Urea [CO(NH <sub>2</sub> ) <sub>2</sub> ]	500	gram	
165.	Xylene [(CH <sub>3</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>4</sub> ]	500	ml	
166.	Xylenol Orange indicator	10	gram	
167.	Zinc chloride [ZnCl <sub>2</sub> ]	500	gram	
168.	Zinc sulphide [ZnS]	500	gram	
169.	Zinc uranyl acetate [(ZnUO <sub>2</sub> (CH <sub>3</sub> COO) <sub>4</sub> ]	100	gram	
170.	α-naphthol [C <sub>10</sub> H <sub>7</sub> OH]	500	gram	

171.	Refractometer	1	nos	
172.	Oswald viscometer	4	nos	
173.	Specific gravity bottle with stopper (100 ml)	3	nos	
174.	Specific gravity bottle with stopper (50 ml)	3	nos	
175.	Digital Polarimeter [Polarimeter Microprocessor based fully automatic, 10cms & 20cms unbreakable PVC tube & Teflon tube. Resolution : 0.1degree, Accuracy : $\pm 0.1$ degree] (Required Company - Analab Scientific Instrument, Equiptronics, Systronics, labtronics & Remi only)	1	nos	
176.	Potentiometer [Microprocessor based instrument] PC compatible with software. Combined titration electrode. Range : $\pm 1.999$ V, Accuracy : .001 Volts, 4 digit LED display, Storage : 2 digit LED display, can store 0-100 values / 1000 in P.C., Dimension : 80 mm (H) x 235 mm (W) x 150 mm (L), Standard cell : 1.018 V inbuilt, Accessories : Special Reference electrode & Pt Electrode, Standard set & rod, Electrode clamp, Rod, Teflon magnet, Screwdriver & Dust proof cover  (Required Company - Analab Scientific Instrument, Equiptronics, Systronics, labtronics & Remi only)	2	nos	
177.	Silver electrode	3	nos	
178.	pH meter [Combination Glass pH Electrode, Standard Buffer Tablets (7.00 pH, 4.01 pH & 9.18 pH), Electrode Stand with Clamp, Base Plate & Rod, Dust Cover, In-built Power Cord] pH / mV Range : 0-14 pH Temperature Range : 0 to 100°C, Resolution : pH: 0.01, (Manual Compensation), 4 Digit LED Display, Dimension : 90 mm (H) x 225 mm (W) x 220 mm (L), Electrode : Unbreakable Glass + Reference Combined Electrode (Required Company - Analab Scientific Instrument, Equiptronics, Systronics, labtronics & Remi only)	2	nos	
179.	Glass electrode	3	nos	
180.	Calomel electrode	3	nos	
181.	Platinum electrode	2	nos	
182.	Conductometer [Conductivity Cell K = 1, 4 digit LED display, Range : 0.01 to 200.00 mS/cm, Resolution : 0.1 mS/cm OR 0.1 $\mu$ S/cm, Accuracy : $\pm 1\%$ $\pm$ last 2 digits, Dimension : 95 mm (H) x 155mm (W) x 285 mm (L), Temperature Range : 0 to 130°C, Accessories : Screwdriver and Dust proof cover, Temperature Probe, Electrode Stand consists of Clamp, Base Plate & Rod, DC Adaptor] (Required Company - Analab Scientific Instrument, Equiptronics, Systronics, labtronics & Remi only)	1	nos	
183.	Conductivity cell	2	nos	
184.	Burette - plastic (50 ml)	10	nos	
185.	Turmeric paper box	5	nos	
186.	Thread (10 meter)	1	nos	
187.	Pipette - glass (10 ml)	25	nos	
188.	Measuring dropper glass (1 ml)	10	nos	

189.	Measuring flask glass (100 ml)	10	nos	
190.	Distilled water	50	litre	
191.	Cobalt glass	5	nos	
192.	Filter paper - simple	5	nos	
193.	Digital stopclock	2	nos	
194.	Hair drier 1600W – (Required company- philips, Havells & Syska)	2	nos	
195.	Spray bottle - glass (for chromatography) (100 ml)	6	nos	
196.	Glass chamber for ascending paper Chromatography (30 cm length, 7 cm diameter)	5	nos	
197.	Petri dish - glass - (for circular chromatography) 20 cm diameter	40	nos	
198.	Glass plate for TLC chromatography (20 cm length x 7 cm width)	20	nos	
199.	Whatman filter paper sheet (57 cm length x 46 cm width) for ascending Chromatography	20	nos	
200.	Whatman filter paper no. 41 (150 mm) for paper Chromatography	2	nos	
201.	KMnO <sub>4</sub>	500	gram	
202.	5 % malachite green Aqueous solution	300	ml	
203.	0.5 % Aqueous saffranin	300	ml	
204.	95% Ethanol	500	ml	
205.	10% Nigrosine Aqueous solution	100	ml	
206.	Formaldehyde Aqueous solution	1	litre	
207.	Sodium nitrate	250	gram	
208.	Sodium nitroprusside	100	gram	
209.	Salmonella Shigella SS Agar	250	gram	
210.	Alcohol distillation assambly	1	unit	
211.	Tannic acid	100	gram	
212.	Yeast extract powder	100	gram	
213.	MnSO <sub>4</sub>	250	gram	
214.	CaCl <sub>2</sub>	250	gram	
215.	ZnSO <sub>4</sub>	250	gram	
216.	CuSO <sub>4</sub>	100	gram	
217.	H <sub>3</sub> BO <sub>3</sub> (Boric acid)	100	gram	
218.	K <sub>2</sub> SO <sub>4</sub> Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> . 24 H <sub>2</sub> O (Alum)	250	gram	
219.	Na MOo4. 2 H <sub>2</sub> O	25	gram	
220.	Nitrilotriacetate	50	gram	
221.	Sodium Acetate	25	gram	
222.	Tartaric Acid	50	gram	
223.	Succinic Acid	50	gram	
224.	Lactic acid	25	gram	
225.	H <sub>2</sub> O <sub>2</sub> Hydrogen Peroxide 30%	500	ml	
226.	3,4-Dimethoxybenzyl alcohol (Veratryl alcohol)	25	gram	
227.	Di-Methyl Amino Benzoic Acid (DMAB)	10	gram	

228.	3-Methyl-2-benzothiazolinone hydrazone hydrochloride monohydrate A. R. (MBTH)	10	gram	
229.	Ammonium Sulphate	250	gram	
230.	Grams iodine solution	600	ml	
231.	Disposable L spreader	50	nos	
232.	Eppendorf vial tube (1.5 ml)	500	nos	
233.	Eppendorf vial tube rack Alphanumeric grid marking, 60 place (5X12) for 1.5 ml tubes	5	nos	
234.	Thumb press dispensing dropper	500	nos	
235.	Spirit (Required for Identification of Blood cell Through Microscopy)	2	litre	
236.	Needle (each packet of 20 nos) (Required for Identification of Blood cell Through Microscopy)	6	packs	
237.	Alcohol (Absolute) (Required for Identification of Blood cell Through Microscopy)	10	litre	
238.	syringe (medical based) (Required for Identification of Blood cell Through Microscopy)	200	units	
239.	Coverslip Standard Quality (each of 25 nos) (Required for Identification of Blood cell Through Microscopy)	5	packs	
240.	Thoma's pipette ( R.B.C) (Required for Total Count of R. B. C.)	20	units	
241.	Hayem's diluting fluid (for RBC) (Required for Total Count of R. B. C.)	300	ml	
242.	Stoppered glass tube (10 ml) (Required for Total Count of R. B. C.)	60	nos	
243.	Acetic Acid Glacial (Required for Total Count of W. B. C.)	500	ml	
244.	Thoma's pipette ( W.B.C) (Required for Total Count of W. B. C.)	20	units	
245.	Distilled Water (Required for Total Count of W. B. C.)	10	litre	
246.	Aqueous Methylene Blue (0.3 % w/v) (Required for Total Count of W. B. C.)	100	ml	
247.	Turks diluting fluid (for WBC) (Required for Total Count of W. B. C.)	200	ml	
248.	Blood sample collection tube (EDTA) (5 ml) (Required for Total Count of W. B. C.)	200	units	
249.	Blood sample collection tube (sodium fluoride )	200	units	
250.	Field Stain A (Required for Differential Count of W. B. C.)	500	ml	
251.	Field Stain B (Required for Differential Count of W. B. C.)	500	ml	
252.	Methanol (Required for Differential Count of W. B. C.)	1	litre	
253.	Ethanol (Required for Differential Count of W. B. C.)	500	ml	
254.	Paper Towel (tissue roll) (Required for Differential Count of W. B. C.)	1800	gram	
255.	Alfa – Amylase	20	gram	
256.	DNSA prepared Aqueous Reagent for reducing sugar analysis	1500	ml	
257.	Sodium potassium tartrate	3	kg	
258.	Bovine serum albumin	100	gram	
259.	Barfoed's Reagent	1000	ml	
260.	Sodium carbonate (Na <sub>2</sub> CO <sub>3</sub> ) (Required for Determination of Vmax and Km for alkaline phosphatase enzyme by performing substrate curve with line weaver burk plot )	500	gram	

261.	Sodium bicarbonate NaHCO <sub>3</sub> (Required for Determination of V <sub>max</sub> and K <sub>m</sub> for alkaline phosphatase enzyme by performing substrate curve with line weaver burk plot )	250	gram	
262.	p-nitro phenyl phosphate (Required for Determination of V <sub>max</sub> and K <sub>m</sub> for alkaline phosphatase enzyme by performing substrate curve with line weaver burk plot )	50	gram	
263.	Alkaline phosphatase enzyme (Required for Determination of V <sub>max</sub> and K <sub>m</sub> for alkaline phosphatase enzyme by performing substrate curve with line weaver burk plot )	1000	unit	
264.	P-nitro phenol (Required for Determination of V <sub>max</sub> and K <sub>m</sub> for alkaline phosphatase enzyme by performing substrate curve with line weaver burk plot )	500	gram	
265.	Sodium Citrate dihydrate (mw: 294.1/mol) (Required To prepare citrate and acetate buffer )	500	gram	
266.	Citric Acid (mw: 192.1 g/mol) (Required To prepare citrate and acetate buffer )	500	gram	
267.	Sodium Acetate (mw: 82.03 g/mol) (Required To prepare citrate and acetate buffer )	500	gram	
268.	Acetic Acid (mw: 60.05 g/mol) (Required To prepare citrate and acetate buffer )	500	gram	
269.	Malt extract Agar (hi media) (Required To prepare citrate and acetate buffer )	500	gram	
270.	Moeller decarboxylase broth with L- lysine (Required for Determination of amino acid decarboxylase activity )	100	gram	
271.	Beef extract (Required for Determination of amino acid decarboxylase activity )	500	gram	
272.	Bromocresol Purple (Required for Determination of amino acid decarboxylase activity )	100	gram	
273.	L- lysine (Required for Determination of amino acid decarboxylase activity )	10	gram	
274.	Calcium carbonate (Required for Winogradsky column )	100	gram	
275.	Gypsum (Required for Winogradsky column )	5	kg	
276.	Minimal salt medium (hi media) (Required for Winogradsky column )	500	gram	
277.	1.5 ml Eppendorf tube (Required for Isolation of Genomic DNA from bacteria and Agarose Gel Electrophoresis )	500	nos	
278.	E. Coli Strain A (Required for Isolation of Genomic DNA from bacteria and Agarose Gel Electrophoresis )	1	stick	
279.	Cell lysis buffer (Required for Isolation of Genomic DNA from bacteria and Agarose Gel Electrophoresis )	200	ml	
280.	Bromophenol Blue (Required for Isolation of Genomic DNA from bacteria and Agarose Gel Electrophoresis )	250	ml	

281.	50X TAE (Required for Isolation of Genomic DNA from bacteria and Agarose Gel Electrophoresis )	100	gram	
282.	1.5 ml vial (Required for Isolation of Genomic DNA from bacteria and Agarose Gel Electrophoresis )	100	nos	
283.	Isopropanol (Required for Isolation of Genomic DNA from bacteria and Agarose Gel Electrophoresis )	1	litre	
284.	TE Buffer (Required for Isolation of Genomic DNA from bacteria and Agarose Gel Electrophoresis )	100	gram	
285.	phenol (Required for Isolation of Genomic DNA from bacteria and Agarose Gel Electrophoresis )	500	gram	
286.	Chloroform (Required for Isolation of Genomic DNA from bacteria and Agarose Gel Electrophoresis )	1	litre	
287.	Isoamyl Alcohol (Required for Isolation of Genomic DNA from bacteria and Agarose Gel Electrophoresis )	500	ml	
288.	Agarose (Electrophoretic grade) (Required for Isolation of Genomic DNA from bacteria and Agarose Gel Electrophoresis )	1	kg	
289.	EtBr ( ethidium bromide) solution (Required for Isolation of Genomic DNA from bacteria and Agarose Gel Electrophoresis )	5	gram	
290.	Agarose gel electrophoresis apparatus (Horizontal) 18 – 20 cm (Length) x 25 – 30 (Breadth) x 5- 7.5 cm (Height), 40-60 samples, multichannel pipette compatible combs and gel caster. (Required for Isolation of Genomic DNA from bacteria and Agarose Gel Electrophoresis ) (Required company – Hi-media, Merck, Thermo scientific & Sigma)	1	nos	
291.	Agarose gel electrophoresis apparatus (Vertical) 10 – 12 cm (Length) x 8 – 10 (Breadth) x 8 - 12 cm (Height), 5-10 samples, glass plate (10 x10 cm), comb capacity of 35µl -50µl and gel caster. (Required for Isolation of Genomic DNA from bacteria and Agarose Gel Electrophoresis ) (Required company – Hi-media, Merck, Thermo scientific & Sigma)	1	nos	
292.	UV transilluminator -Auto Shutdown with timer for longer life of UV tube -Light weight with superior sensitivity -Long life, pure UV quartz filter -Resistant to most chemicals, minor scratches, polarization -High intensity UV tubes are used to view DNA & RNA gels -Highly polished reflectors for uniform illumination -Electric high frequency ballast to allow instant start -Ultra safe UV blocking lid to protect from direct exposure to UV light	1	nos	

	(Required for Isolation of Genomic DNA from bacteria and Agarose Gel Electrophoresis ) (Required company – Hi-media, Merck, Thermo scientific & Sigma)			
293.	Tris HCL (Required for Isolation of Genomic DNA from bacteria and Agarose Gel Electrophoresis )	250	gram	
294.	EDTA (Required for Isolation of Genomic DNA from bacteria and Agarose Gel Electrophoresis )	200	gram	
295.	Calf thymus DNA (Required for To estimate concentration of DNA by DPA (Diphenylamine) method )	1	ml	
296.	1 N HClO <sub>4</sub> prepared solution (Perchloric Acid) (Required for To estimate concentration of DNA by DPA (Diphenylamine) method )	1	litre	
297.	Acetaldehyde (Required for To estimate concentration of DNA by DPA (Diphenylamine) method )	200	ml	
298.	DiPhenylAmine (Required for To estimate concentration of DNA by DPA (Diphenylamine) method )	100	gram	
299.	Dried Yeast (Required for To isolate and estimate RNA from Yeast )	100	gram	
300.	Potassium Acetate (Required for To isolate and estimate RNA from Yeast )	250	gram	
301.	Absolute Ethanol (100 %) (Required for To isolate and estimate RNA from Yeast )	10	litre	
302.	Orcinol reagent (Required for To isolate and estimate RNA from Yeast )	500	ml	
303.	Black craft paper (Required for To isolate and estimate RNA from Yeast )	20	nos	
304.	SDS separating gel mix (Required for SDS PAGE electrophoresis )	100	gram	
305.	SDS stacking gel mix (Required for SDS PAGE electrophoresis )	100	gram	
306.	Ammonium Persulphate (Required for SDS PAGE electrophoresis )	500	gram	
307.	Tris Glycine buffer 10X concentration (Required for SDS PAGE electrophoresis )	200	gram	
308.	Sample Loading buffer (Required for SDS PAGE electrophoresis )	10	ml	
309.	APS vial (Required for SDS PAGE electrophoresis )	50	nos	
310.	Brilliant blue R stain 2X concentration (Required for SDS PAGE electrophoresis )	100	ML	
311.	Destainer 4X concentration (Required for SDS PAGE electrophoresis )	100	ML	
312.	Tetracycline (Required for Conjugation in E. coli )	5	Gram	
313.	Streptomycine (Required for Conjugation in E. coli )	5	Gram	

314.	E. coli strain B (Required for Conjugation in E. coli )	1	stick	
315.	Trypticase soy agar (Required for Gradient plate method )	250	gram	
316.	S. Typhimurium culture	1	stick	
317.	L- Histidine HCL	250	ml	
318.	Biotine	5	gram	
319.	2-nitrofluorene	10	gram	
320.	Hair dyes (Any Two)	2	pack	
321.	Wilkins broth (Required forPrimary screening of antibiotic producing microbes )	250	gram	
322.	Wilkins agar (Required forPrimary screening of antibiotic producing microbes )	500	gram	
323.	bromothymol blue (Required forPrimary screening of antibiotic producing microbes )	500	ml	
324.	Penicillin/Streptomycin/Amphotericin (10 gram each seperately) (Required forPrimary screening of antibiotic producing microbes and fermentative production of alcohol )	10	gram	
325.	Potassium dichromate (Required forPrimary screening of antibiotic producing microbes and fermentative production of alcohol )	1	kg	
326.	KI (Required forPrimary screening of antibiotic producing microbes and fermentative production of alcohol )	50	gram	
327.	Na2S2O3 sodium thiosulfate (Required forPrimary screening of antibiotic producing microbes and fermentative production of alcohol )	500	gram	
328.	Sodium alginate (Required forYeast cell immobilization )	100	gram	
329.	Glutaraldehyde (Required forYeast cell immobilization )	100	ml	
330.	Calcium chloride (Required forYeast cell immobilization )	250	gram	
331.	Soybean casein digest broth (Required forSterility testing )	250	gram	
332.	lactophenol (Required forSterility testing )	100	gram	
333.	Thioglycolate broth (Required forSterility testing )	250	gram	
334.	Multi antibiotic disc Amoxicillin, cefaclore and chloramphenicol (Required for Antibiotic susceptibility testing )	14	disc	
335.	Antisera kit (blood grouping testing kit) (Required for Blood grouping )	3	kit	
336.	Widal test kit (for serodiagnosis of typhoid) O,H, A(H), B(H) Antigen (Required for Widal test )	2	kit	
337.	Round bottom dreyers agglutination tube with anticoagulant (EDTA tube) (Required for )	200	nos	
338.	Drabkin's Reagent (Poison) (Required for Haemoglobin estimation )	200	ml	
339.	Ethylenediaminetetraacetic acid dipotassium salt dihydrate (Required for Widal test )	25	gram	
340.	R.P.R (V.D.R.L) kit with plastic slide for syphilis diagnosis	3	kit	
341.	Heparin tube (Required for erythrocyte sedimentation )	100	nos	
342.	ESR Tube (Wester green tube )for erythrocyte sedimentation (Required for erythrocyte sedimentation )	40	nos	



343.	Wester green tube rack for erythrocyte sedimentation (Required for erythrocyte sedimentation )	1	nos	
344.	Glucose oxidase peroxidase chromogen reagent (Required for erythrocyte sedimentation )	100	ml	
345.	Benzoic acid (Required for erythrocyte sedimentation )	500	gram	
346.	Phenol (Required for Urine analysis )	100	gram	
347.	Diazo A (Sulphanilic nitrite solution) (Required for Urine analysis )	200	ml	
348.	Diazo B (sodium nitrite solution ) (Required for Urine analysis )	200	ml	
349.	Activator (caffeine) solution (Required for Urine analysis )	450	ml	
350.	Acetic acid (Required for Urine analysis )	500	ml	
351.	Solid ammonium sulphate (Required for Urine analysis )	500	gram	
352.	Sodium nitroprusside (Required for Urine analysis )	100	gram	
353.	Ammonia (Required for Urine analysis )	500	ml	
354.	10% Barium chlorite (Required for Urine analysis )	500	gram	
355.	Fouchet's reagent (Required for Urine analysis )	500	ml	
356.	Watman no. 1 filter paper ( 12.5 cm) (pack of 100) (Required for Urine analysis )	1	pack	
357.	Finely grounded sulphur powder (Required for Urine analysis )	200	gram	
358.	Phenolphthalein reagent (Required for Urine analysis )	500	ml	
359.	H <sub>2</sub> O <sub>2</sub> solution (Required for Urine analysis )	500	ml	
360.	10% Buffer saline (Required for Urine analysis )	100	ml	
361.	Sodium chloride (Required for Urine analysis )	500	gram	
362.	Na <sub>2</sub> HPO <sub>4</sub> .2H <sub>2</sub> O (Required for Urine analysis )	100	gram	
363.	Trisodium citrate (Required for Urine analysis )	100	gram	
364.	Neutral formaldehyde 40% (Required for Urine analysis )	500	ml	
365.	Brilliant blue (Required for Urine analysis )	25	gram	
366.	Sahli's pipett(20 microL) (Required for Urine analysis )	40	nos	
367.	bromothymol blue (Required for Urine analysis )	500	ml	
368.	For Practical Determine the "g" using Kater's pendulum: Required Instrument- Full setup including Kater's pendulum (material: metal), reading telescope, meter rule, digital stop watch, knife edge	2	Set	
369.	For Practical Study of damped simple harmonic motion: Required Instrument- Full setup including Log decrement, lamp & scale, digital stop watch	2	Set	
370.	For Practical Study of Double refraction of Calcite prism: Required Instrument- Calcite prism, Sodium vapour lamp, PH ballast IBU for Sodium vapour lamp, Wooden slit box	2	Set	
371.	For Practical Determination of Young's Modulus "Y" of a bar by bending of beam (Young modulus of beam by elevation method): Required Instrument- Full setup including Bending of beam apparatus: Consists of a Metal beam, Slotted weight set of 5 (500gm each), Slotted weight set of 5 (1000gm each) Vernier calliper, Micrometer screw gauge, Traveling Microscope with SUPERIOR QUALITY	2	Set	

372.	For Practical Determination of modulus of rigidity " $\eta$ " of rod by Barton's Vertical app (Torson's vertical pattern apparatus): Required Instrument- Full setup including Barton's apparatus vertical pattern steel frame mounted on heavy cast iron base with leveling screws, Slotted weight set of 5 (500gm each), Vernier calliper, Micrometer screw gauge, wooden scale of 100cm	2	Set	
373.	For Practical To determine radius of curvature of a given lens and refractive index of glass using optical lever method: Required Instrument- Full setup including Optical lever, Rising table, Reading telescope SUPERIOR quality, suitable Convex lens, Lens / mirror holder, Parallax pins, wooden scale of 100cm	2	Set	
374.	For Practical To determine viscosity of liquid by log decrement method: Required Instrument- Full setup including Flat bottom Aluminium tapeli, Log decrement apparatus, Lamp and scale arrangement, digital Stop watch	2	Set	
375.	For Practical Comparision of capacity (C1/C2) using method of mixture: Required Instrument- Full setup including Condenser (capacitor) 0.47 MFD & 1.0 MFD fitted win box with terminals, D.P.D.T. Switch, Ballistic galvanometer, Lamp & scale arrangement with built-in transformer, IC regulated power supply with 2V fixed range, Plug key 1-way, Resistance box 1 to 10000 $\Omega$ SUPERIOR QUALITY	2	Set	
376.	For Practical Determine the Self Induction of coils using Owen's Bridge: Required Instrument- Full setup in one box with all components builtin, with null detector and built in oscillator (Required companies: Omega / India Scientific Equipments / Hi-Tech / Caltronics)	2	Set	
377.	For Practical Mutual inductance by Ballistic galvanometer: Required Instrument- Full setup including Mutual Inductance coils for 2 Different values, Tapping key, Decade resistance box with 3 dials, Plug key four way, Ballistic Galvanometer, Lamp & Scale arrangement, IC regulated power supply with 2V fixed range, Plug key, single, Resistance box 1-10000 $\Omega$	2	Set	
378.	For Practical Study of Transformer's coils using Bridge rectifier: Required Instrument- Full setup circuit board for this experiment with inbuilt transformer and Bridge rectifier circuit and three meters (Two AC Voltmeters and one DC Milliammeter), Variac 2Amp., closed type superior - for AC power (Required companies: Omega / India Scientific Equipments / Hi-Tech / Caltronics)	2	Set	
379.	For Practical To determine the self-inductance/ Mutual Inductance of a given coil by Rayleigh's method.: Required Instrument- Full setup of Rayleigh Self Inductance Bridge without Ballistic Galvanometer, Lamp & Scale, IC regulated power supply	2	Set	
380.	For Practical Absolute value of capacity of a capacitor by B.G.: Required Instrument- Not full setup, Only Condenser (capacitor) 0.22 MFD, Charge & discharge key, Resistance box 0.1 to 0.5 $\Omega$ SUPERIOR QUALITY	2	Set	

381.	For Practical Study of 'h' parameter of CE transistor : Required Instrument- Full setup circuit board with Built-in meters and power source (Required companies: Omega / India Scientific Equipments / Hi-Tech / Caltronics)	2	Set	
382.	For Practical Study of single stage Transformer coupled amplifier: Required Instrument- Full setup including circuit board for this experiment with built in power supply without CRO & function generator (Required companies: Omega / India Scientific Equipments / Hi-Tech / Caltronics / Scientech)	2	Set	
383.	For Practical Study of complementary - symmetry power amplifier: Required Instrument- Full setup including circuit board for this experiment with built in power supply, without CRO & function generator (Required companies: Omega / India Scientific Equipments / Hi-Tech / Caltronics / Scientech)	2	Set	
384.	For Practical Study of Series voltage regulator using transistor: Required Instrument- Full setup including circuit board with built - in meters and power source (Required companies: Omega / India Scientific Equipments / Hi-Tech / Caltronics)	2	Set	
385.	For Practical Electronic voltmeter using FET: Required Instrument- Full setup including circuit board with built-in multimeter and power source (Required companies: Omega / India Scientific Equipments / Hi-Tech / Caltronics)	2	Set	
386.	For Practical Study of Hartley Oscillator using Transistor: Required Instrument- Circuit board for this experiment with built in power supply, No need of CRO (Omega / India Scientific Equipments / Hi-Tech / Caltronics)	2	Set	
387.	For Practical Study of RC phase shift Oscillator using Transistor: Required Instrument- Circuit board for this experiment with built in power supply, No need of CRO (Required companies: Omega / India Scientific Equipments / Hi-Tech / Caltronics)	2	Set	
388.	For Practical To determine the capacitance or to compare capacitance by Wien Bridge: Required Instrument- Full setup circuit board in one box (Required companies: Omega / India Scientific Equipments / Hi-Tech / Caltronics)	2	Set	
389.	For Practical Study of Resonance pendulum: Required Instrument- Only Bar pendulum 100cms long having bored at every 5cms supplied with 2 removeable knife edges and Wall bracket No need of Reading telescope, stop watch & meter scale	2	Set	

390.	For Practical Determination the Young modulus by Koenig's method: Required Instrument- Full setup including "Y" by Koenig method apparatuses - Consisting of one metal flat bar, two mirror attachments can be slide on the two heavy knief edges mounted on hreavy clamp which can be fitted on the table, meter scale 100cm, Retort stand having cast Iron heavy base, Universal clamp, Slotted weight set with hamger 5 x 250g, No need of Vernier calliper & Micrometer screw gauge	2	Set	
391.	For Practical Determine the Elastic constants using Flat Spiral Spring.: Required Instrument- Full setup including Spring made from Iron wire, Retort stand having cast Iron heavy base, Heavy clamp, Slotted weights set of 5 x 100g, Metal rectangular Rods of same diameter but with 3 different lengths	2	Set	
392.	For Practical Study of Platinum Resistance thermometer: Required Instrument- Full setup including Platinum Resistance thermometer, Hypsometer, Standard cell, Plug key and connecting leads	2	Set	
393.	For Practical Resolving power of Diffraction Grating: Required Instrument- Only Auxillary slit (Variable) drum type LC 0.001cm, D.E.D.F. Prism 32x32mm, No other instruments required	2	Set	
394.	For Practical Study of Temperature ON-OFF Controller with Thermistor.: Required Instrument- Full setup including circuit board for this experiment with built in power supply, Thermometer (Required companies: Omega / India Scientific Equipments / Hi-Tech / Caltronics)	2	Set	
395.	For Practical To determine Young's modulus(Y), modulus of rigidity ( $\eta$ ), Poission's ratio (s) and bulk modulus (K) for the material of wire by Searl's arrangement.: Required Instrument- Rigidity apparatus - Searl's patten - 30cms long wire under test is connected to two Brass square bars about 30cms in length. Both the rods are having fitted with screws for to fit test wire. These rods can be suspended in hook in same plane. Complete with three test wires and connecting screws, Metal stand for Rigidity apparatus, Digital balance, Thin but strong thread, No need of Vernier calliper, Micrometer screw gauge & stop watch	2	Set	
396.	For Practical To determine refractive index of liquid by Bi prism: Required Instrument- Only Fresnal's Biprism 40x30mm, No other instruments required	2	Set	
397.	For Practical Phot conductivity of Selenium cell: Required Instrument- Full setup including circuit board with built in two digital meters and Solar cell console with light arrangement to activate solar cell (Required companies: Omega / India Scientific Equipments / Hi-Tech / Caltronics)	2	Set	
398.	For Practical To determine self inductance of a coil by Anderson's Bridge: Required Instrument- Full setup in one box with all components builtin, with null detector and built in oscillator (Required companies: Omega / India Scientific Equipments / Hi-Tech / Caltronics)	2	Set	

399.	For Practical 'e' By Milikan's Method: Required Instrument- Full setup consisting of Main apparatus, Power supply and Automizer Spray with manual	2	Set	
400.	For Practical Study of OP-AMP using IC 741: Required Instrument- Circuit board for this experiment with built in power supply, No need of CRO & Signal Generator (Required companies: Omega / India Scientific Equipments / Hi-Tech / Caltronics)	2	Set	
401.	For Practical Study of IC 555 Timer circuit: Required Instrument- Circuit board for this experiment with built in power supply, No need of CRO (Required companies: Omega / India Scientific Equipments / Hi-Tech / Caltronics)	2	Set	
402.	For Practical Study of 4-bit Ripple Counter.: Required Instrument- Full setup Circuit board for this experiment with built in power supply (Required companies: Omega / India Scientific Equipments / Hi-Tech / Caltronics)	2	Set	
403.	For Practical Study of UJT as Relaxation Oscillator.: Required Instrument- Circuit board for this experiment with builtin power source, No need of CRO (Required companies: Omega / India Scientific Equipments / Hi-Tech / Caltronics)	2	Set	
404.	For Practical Study of Modulation and Demodulation using IC 723: Required Instrument- Circuit board for this experiment with built in power supply, No need of CRO & Signal Generator (Required companies: Omega / India Scientific Equipments / Hi-Tech / Caltronics)	2	Set	
405.	Micropipette set of each (1-100 ul, 1-200 ul 1-1000ul, 1000-5000 ul, 1000-10000 ul) with pipette stand of mansion pipettes (Required Company- Thermo Scientific, Eppendorf and Satorius)	1.00	set	
406.	Micropipette - 1-100 ul and 100-1000ul (Required Company- Thermo Scientific, Eppendorf and Satorius)	2.00	set	
407.	Kovacs reagent (100 ml)	100	ml	
408.	Millions reagent (15% w/v mercury sulphate in 15% v/v H <sub>2</sub> SO <sub>4</sub> ) (100 ml)	100	ml	
409.	Ninhydrin reagent (0.2%w/v ninhydrin phosphate buffer pH 7) (100 ml)	100	ml	
410.	Malachite green (prepared reagent ) not powder (125 ml)	125	ml	
411.	Nigrosine (prepared reagent ) 10% w/v solution (100 ml)	100	ml	
412.	Copper sulphate pentahydrate -CuSO <sub>4</sub> .5H <sub>2</sub> O (500 gm)	500	gm	
413.	Hydrochloric acid - HCl (500 ml)	500	ml	
414.	Sulphuric acid - H <sub>2</sub> SO <sub>4</sub> (1000 ml)	1000	ml	
415.	Sodium nitrate - NaNO <sub>3</sub> (500 gm)	500	gm	
416.	Dipotassium hydrogen phosphate - K <sub>2</sub> HPO <sub>4</sub> (500 gm)	500	gm	
417.	Ammonium sulfate -(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> - (500 gm)	500	gm	
418.	Copper chloride - CuCl <sub>2</sub> , pure 98% (500 gm)	500	gm	
419.	sodium nitroprusside - Na <sub>2</sub> [Fe(CN) <sub>5</sub> NO], AR 99% (100 gm)	100	gm	

420.	Ammonia solution (25%) (500 ml)	500	ml	
421.	Sodium carbonate -Na <sub>2</sub> CO <sub>3</sub> , Anhydrous (500 gm)	500	gm	
422.	Sodium bicarbonate -NaHCO <sub>3</sub> (500 gm)	500	gm	
423.	Nitric acid - HNO <sub>3</sub> (1000 ml)	1000	ml	
424.	Potassium ferricyanide K <sub>3</sub> [Fe(CN) <sub>6</sub> ], 98% (250 gm)	250	gm	
425.	Laboratory Centrifuge with two rotor head; (1) 8 x 50 ml and (2) 12 x 15 ml. Rotation speed not less than 10000 RPM. (Step less speed regulator, Safety Lid interlock to prevent cover opening during centrifugation, Digital speed meter and 0-90 minutes digital countdown timer, Alphanumeric LCD display of speed) (Required Company- Thermo Scientific, Eppendorf, Remi, Olympus and Satorius)	2.00	set	

## **COMMERCIAL TERMS AND CONDITIONS**

- Prices should be quoted up to Diu Higher Education Society, Diu.
- Discounts/Rebates: The Laboratory chemicals & instruments will be used for teaching and basic research in the Diu College, Diu. Maximum special discounts/rebates should be indicated in the offer.
- The price bids shall remain valid for a period of 1 year days from the date of opening of technical bid. Diu College, Diu reserves the right to reject a bid valid for a period shorter than 1 year as non-responsive without any correspondence.
- The delivery period should be within 20 days from the date of receipt of order. Bids offering delivery period beyond stipulated time period will be treated as non-responsive and will be summarily rejected.
- The prices quoted by the bidder in the price bid are final and no adjustment of the same shall be made on account of any variations in costs of materials or any other cost component affecting the total cost in fulfilling the obligation under the contract. The prices once offered shall remain firm and fixed and shall not be subject to escalation for any reason whatsoever during the currency of the contract.

Authorized Signatory  
With seal of company