



**தமிழ்நாடு மாசு கட்டுப்பாடு வாரியம்**

**சென்னை -32.**

**ஒப்பந்தப்புள்ளி அறிவிப்பு எண்: 7/2018.**

மூடி முத்திரையிடப்பட்ட ஒப்பந்தப்புள்ளிகள் (இரண்டு உறைகள் முறைப்படி) கீழ்க்கண்ட ரசாயன பொருட்கள் மற்றும் சான்றளிக்கப்பட்ட குறிப்பு பொருட்களின் உற்பத்தியாளர்கள்/ அங்கீகரிக்கப்பட்ட விற்பனையாளர்களிடமிருந்து வரவேற்கப்படுகின்றன.

ரசாயன பொருட்கள் மற்றும் சான்றளிக்கப்பட்ட குறிப்பு பொருட்கள் தோராய மதிப்பு - 38.59 . லட்சம்.

ஒப்பந்தப்புள்ளி படிவத்தை [www.tenders.tn.gov.in](http://www.tenders.tn.gov.in) இணையதளத்தில் பதிவிறக்கம் செய்துகொள்ளலாம். மேலும் ஒப்பந்தப்புள்ளி படிவங்களை நேரடியாக துணை இயக்குநர், (ஆய்வகங்கள்) தமிழ்நாடு மாசு கட்டுப்பாடு வாரிய இணைப்பு கட்டிடம், எண் 76, மவுண்ட் சாலை, கிண்டி, சென்னை-32. அவர்களின் அலுவலத்திலிருந்து 24.10.2018 முதல் பெற்றுக்கொள்ளலாம். ஒப்பந்தப்புள்ளி பெறப்படும் கடைசி நாள்: 08.11.2018

தலைவர்  
தமிழ்நாடு மாசு கட்டுப்பாடு வாரியம்  
சென்னை-32.



**TAMIL NADU POLLUTION CONTROL BOARD**

**Chennai – 32.**

**Tender Notice No: 7/2018**

Sealed tender under two cover systems are invited from the manufacturers or authorized dealers for:

Supply of Chemicals and Certified Reference Material (CRM)

Total cost of Tender value Rs. 38.59 Lakhs.

The tender schedule can be obtained directly from the O/o. the Deputy Director(Labs), TNPC Board Annexe Building, 76, Mount Salai, Guindy, Chennai – 32.

Eligibility criteria and tender documents may be downloaded from

[www.tenders.tn.gov.in](http://www.tenders.tn.gov.in) on or after 24.10.2018. The last date for the receipt of the tender is 08.11.2018.

Chairman  
Tamil Nadu Pollution Control Board  
Chennai – 32.

**TENDER SCHEDULE**

**TENDER NO: 7/2018**

**INVITATION OF BIDS FOR THE SUPPLY OF CHEMICALS AND  
CERTIFIED REFERENCE MATERIAL (CRM)**

## SECTION – I

### INVITATION FOR BIDS

1. **Sealed Tenders will be received till 1.00 P.M. on 08.11.2018** by the **Chairman/** or any other official authorized by the Chairman, TamilNadu Pollution Control Board, Chennai for **the supply of Chemicals and Certified Reference Material (CRM) .**
2. Interested eligible bidders may obtain further information from the office of the Director (Labs) at Advanced Environmental Laboratory, TamilNadu Pollution Control Board (Annexe Building), 76, Mount Salai, Guindy, Chennai-32.
3. The bidder should be the manufacturer of the item quoted or his authorized agent who have supplied, anywhere in India which should be in satisfactory operation with no adverse report as on date of bid opening.
4. The tender documents have been published in the website [www.tenders.tn.gov.in](http://www.tenders.tn.gov.in). which can be downloaded. A complete set of bidding documents may also be purchased by any interested eligible bidder on submission of a written application to the above office along with a **Demand Draft drawn in favour of "TamilNadu Pollution Control Board, Chennai,"** obtained from any one of the Nationalised Banks towards the cost of the tender document from the office of the Director (Labs), Advanced Environmental Laboratory, TamilNadu Pollution Control Board (Annexe Building), 76, Mount Salai, Guindy, Chennai-32 during office hours from **10.00 A.M. to 3.45 P.M.** on all working days either in person or by post

a )	Cost of bidding document To obtain by post (Non-refundable)	Rs.1,100/-(inclusive of postage charges of Rs.100/-).
b )	Date of commencement of sale of bidding document publishing in the website:	24.10.2018
c )	Last date for sale of bidding document	<b>08.11.2018 up to 12.00 Noon</b>
d )	Last date and time for receipt of bids	<b>08.11.2018 up to 01.00 P.M.</b>
e )	<b>Date and Time of opening of bids</b>	<b>08.11.2018 @ 3.00 P.M.</b>

	<b>Cover – A ( Technical Bid)</b>	<b>08.11.2018 up to 03.00 P.M.</b>
	<b>Cover – B ( Price Bid)</b>	Date and time for Price Bid will be intimated separately, if the cover 'A' is found Technically responsive and acceptable by the Technical Committee.
f)	Place of opening of bids	TamilNadu Pollution Control Board, 76, Mount Salai, Guindy Chennai-32
g )	Address for communication	<b>All sealed tenders should be addressed to the Chairman, TNPCB, Chennai-32 and deposited in the Tender Box in the office of Deputy Director (Labs), Advanced Environmental Laboratory, TamilNadu Pollution Control Board(Annexe), 76, Mount Salai, Guindy, Chennai-32 (or) sent by post to the Deputy Director(Labs), TNPC Board (Annexe), 76, Mount Salai, Guindy, Chennai-32.</b>

5. All bids must be accompanied by EMD as specified in the bid documents and must be delivered to the above office at the date and time indicated above.
6. Bid will be opened in the presence of the bidders or their authorized representatives who are willing to attend on the specified date and time mentioned above.

## **SECTION – II**

### **CONDITIONS OF TENDER FOR THE SUPPLY OF CHEMICALS AND CERTIFIED REFERENCE MATERIAL (CRM)**

## TAMILNADU POLLUTION CONTROL BOARD

### SECTION – II

#### CONDITIONS OF TENDER FOR SUPPLY OF CHEMICALS AND CERTIFIED REFERENCE

##### MATERIAL (CRM)

- 1 Sealed tenders are invited by the **Chairman**, TamilNadu Pollution Control Board, Chennai for **SUPPLY OF CHEMICALS OF HIGHEST PURITY AND MEETS OR EXCEEDS THE PURITY STANDARDS SET BY AMERICAN CHEMICAL SOCIETY AND CERTIFIED REFERENCE MATERIAL (CRM) certified by NIST and under rate contract for the year 2017-2018 for the chemicals (Price Catalogue / list) listed in TABLE – I & II.**

The tenderers are required to quote their **maximum discount** offered on the price list of respective brands.
- 2 The tenderers should enclose **the price list** of respective brands along with the tender.
- 3 The actual manufacturer or their authorized agent and stockiest should only quote. Subletting and assigning of contracts to any other firm/ person is prohibited except with the prior permission of the **Chairman**, TamilNadu Pollution Control Board, Chennai-32 or an officer authorized on behalf of the Chairman.
- 4 **Tender should be enclosed in a sealed envelope superscribed with tender number, the name of the item for which quoted and the due date of the tender and sent to the Deputy Director(Labs), TamilNadu Pollution Control Board, (Annexe Building), 76, Mount Salai, Guindy, Chennai-32 so as to reach on or before 1.00 P.M. on 08.11.2018.** The tender (Covers A & B) received without superscription as above and received late will be rejected.
- 5 (a) Tender will not be accepted, if TNGST NUMBER and CST NUMBER of supplier is not indicated in the offer.  
(b) Telegraphic, Telex or Fax or open letter offers will not be accepted.
- 6 Each tender has two parts viz., Technical bid and Price bid.  
Technical bid in Cover-A and Price bid in Cover-B should be separate sealed covers hereinafter called **Cover – A** which contains **TECHNICAL BID** and **Cover-B** which contains **PRICE BID**.

## 6.1 Technical Bid in COVER – A

The following documents and certificates should be enclosed in Cover-A along with the Technical bid.

a	<b>Check List – A :</b> Check List “ A” along with details called for therein. (Annexure – IV)
b	Earnest Money Deposit and cost of tender document
c	If the tenderer is a manufacturer, duly attested photocopy of industrial license.
d	If tenderer is a dealer, authorization letter in original obtained from the manufacturer
e	Documentary evidence for the constitution of the firm with the details of name address, telephone number, fax No. e- mail address.
f	Authorization for a senior responsible Officer of the company to transact business.
g	Declaration Form in Annexure-I
h	List of customers using the Chemicals and Certified Reference Material (CRM) with documentary evidences for the supplies made
l	The tender schedule duly signed by the tenderer
j	Copy of Audited Annual Accounts for Last 3 years.

## 6.2 Price Bid in cover B

The following documents should be enclosed along with **price bid in cover B.**

a	Check list - “B” Check List “B” along with details called for therein.
b	Annexure – II of the tender shall be duly filled giving the maximum discount allowed on the price mentioned in the price catalogue of respective branch.
c	Special conditions as in Annexure – III duly signed by the tenderer.

The above documents should be submitted in “ **Cover-A**” and “**Cover B**” addressed to the Chairman, TamilNadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-600 032 and super scribed as **TECHNICAL BID FOR SUPPLY OF CHEMICALS AND CERTIFIED REFERENCE MATERIAL (CRM) DUE DATE ON 08.11. 2018 @ 1.00 PM.**

### Terms and conditions of Tenders

1. The price list for the chemicals should be in Rupee.
2. If any taxes are chargeable extra (TNGST ) the rate of taxes should be specified.
3. The chemicals should be delivered to the laboratories mentioned in Annexure -V at free of cost.
4. The discount quoted in Annexure - II should not be altered and shall be both in figures and in words and should not be subject to any variation .
5. The Board is not eligible for 'C' or 'D' Form.
6. Each page of the tender should be authorized by the tenderer.



7. The tenderer shall submit a checklist of documents enclosed with their page number.
8. It shall be the responsibility of the tenderer for any shortages/damages at the time of receipt.
9. All columns of the tender form should be duly, properly and exhaustively filled in. The signature on the quotations shall be deemed to be of the authorized signatory. The words 'NOT QUOTED" should be written against any or all the items in the schedule for which a tenderer does not wish to tender, conditional offers and counter offers are liable to be ignored and/or rejected.

#### **Pre-Bid Conference**

The bidder or his authorized representative is invited to attend the pre – bid conference. The date and time of pre-bid conference will be held on **29.10.2018 at 11.00 AM**. During the meeting the following subjects may be discussed.

- a) The purpose of the conference will be clarify any issues regarding the Bidding Document.
  - b) Non-attendance of the pre-bid conference will not be a cause for disqualification of a bidder.
  - c) The bidder shall depute maximum two authorized persons to take in pre-bid conference.
  - d) The bidder is not expected to raise any additional query after pre-bid conference and the TNPC Board is not obliged to reply any such queries.
  - e) The pre-bid conference shall be open to those intending bidders who have purchased/downloaded the Bid Documents
10. **GUARANTEE:** During the period of contract, the supplier should undertake to replace any defective/ broken chemicals supplied and chemicals which are not as per specifications, immediately on receipt of intimation from the Heads of laboratories. The above defective/ broken supply should be replaced at free of cost at site
  11. **GUARANTEE:** During the period of contract, the supplier should undertake to replace any defective/ broken chemicals supplied and chemicals which are not as per specifications, immediately on receipt of intimation from the Heads of laboratories. The above defective/ broken supply should be replaced free of cost at the site.
  12. **DELIVERY:** Supply should be strictly made as per delivery schedule issued with the purchase order. All supplies are to be completed within the time specified in the purchase order, failing which TamilNadu Pollution Control Board reserves the right to cancel or modify orders if it is seen that the progress of the supplies are not satisfactory.
  13. The **Chairman**, TamilNadu Pollution Control Board, reserves the right of accepting or rejecting all or any of the tenders without giving any reasons for the same and or to split up

to tender as it may deem fit and/or also to finalize the tender after negotiations and also increase or decrease the tendered quantity. Repeat orders will also be placed on them after watching the performance if considered necessary.

14. The tenderers must state while sending their tenders that they understand and accept this tender enquiry conditions, as without such acceptance, the tender will not be considered.
15. The tenderers should mention the brand and the manufacturer's details in the tender.
16. The tenderer shall arrange for security, protecting the terms to avoid loss or damage during transit. In case of damages, the tenderer should replace the damages during transit by good ones and at destination without any extra cost.
17. Chemicals not conforming to specification and found to be defective or damaged in transit will be returned by the consignees. The replacement should be made within a week on receipt of rejection from the consignee.
18. If any chemicals ordered are out of stock and not available with the manufacturer a non-availability certificate to that extent should be obtained from the respective manufacturers by the stockiest and furnished to TNPC Board.
19. Any other conditions, which might have been quoted by the seller and in contravention to the terms prescribed in the tender instruction, will not be accepted.
20. The conditions mentioned herein will form part and parcel of the agreement.
21. The Annexures enclosed should be filled in without any omission and submitted along with the original tender form as otherwise the offer will be liable for rejection.
22. The seller should be prepared to come for a negotiation in this office at a short notice if called for by the Board.
23. **PENALTY CLAUSE:** As the chemicals are urgently required the supplying firms should clearly mention in their tender the minimum delivered period required for the satisfactory completion of supply of chemicals mentioned in the price list. The supplying firms should clearly understand that time is the essence of the contract and no extension of time for the delivery will be entertained, under any circumstances. The delivery of the goods specified in the purchase order should be made within the time limit prescribed. Where the seller supplied or dispatches the items beyond the delivery period, specified in the Purchase Order, to the consignee (Board) will have no obligation to accept the goods. If accepted, Board has the right to recover pre-estimated liquidated damages at the rate of **10% p.a.** of the value of goods delayed for each day to the delay thereof, without prejudice to any other relief or compensation due to the purchase order or under any other conditions of the contract.
24. All disputes are subjected to the jurisdiction of court in Chennai City only.

25. TamilNadu Pollution Control Board will not accept any responsibility for any postal delay involved in the transmission and receipt of tender documents.
26. **EARNEST MONEY DEPOSIT:** The tender must be accompanied by a deposit equal to **Rs.38,600/-(Rupees Thirty Eight Thousand Six Hundred only)** as Earnest Money Deposit. The Earnest Money Deposit must be furnished in the form of Demand Draft drawn in favour of the Tamilnadu Pollution Control Board, Chennai and the same should be sent along with the tender.
- Note:** Earnest Money Deposit shall not be accepted in the shape of cash/postal orders, Foreign Cheques, Foreign D.D.
- Tenders not accompanied by the Earnest Money Deposit will be rejected.** Earnest Money Deposit will be returned to unsuccessful tenderers only after finalisation of the tender. On no account can the security deposit of a previous contract be taken as an authority for the tender or a tender accepted without the Earnest Money Deposit. It is important that all Earnest Money Deposits are made by way of Demand Draft in favour of the "**TamilNadu Pollution Control Board**", No exemption will be permitted.
26. **SECURITY DEPOSIT:** Security Deposit equivalent to 5% of the value of the supply order should be remitted within 7 days from the date of receipt of the supply order.
27. **AGREEMENT:** The successful Tenderer shall execute at Agreement on a 20/- Rupee non-judicial stamp paper with the Chairman, TamilNadu Pollution Control Board, Chennai within 15 days from the date of receipt of supply order. The specimen form of the agreement bond will be supplied by TamilNadu Pollution Control Board.
28. In the case of successful tenderers, the Earnest Money Deposit may, at the discretion of **Chairman**, TamilNadu Pollution Control Board, Chennai be adjusted towards the Security Deposit payable by him and balance paid by the tenderer so as to form 5% of the value of supply order as Security Deposit.
29. The Earnest Money Deposit and Security Deposit furnished by the Tenderer will be returned to him upon complete fulfilment of the tender to the satisfaction of the **Chairman**, TamilNadu Pollution Control Board.
30. The declaration form in Annexure-I must be signed by the Tenderer and must be enclosed along with the tender. Tenders received without the declaration form shall not be considered.
31. **FORFEITURE OF EMD**
- If the successful Tenderer fails to execute the Agreement and/or deposit the required security within the time specified or withdraws his tender after the intimation of the acceptance of his tender has been sent to him or owing to any other reasons, he is unable to undertake the contract, his contract will be cancelled and the Earnest Money Deposit

made by him along with his tender shall stand forfeited to the Tamilnadu Pollution Control Board and he will also be liable for all damages sustained by Chairman, Tamilnadu Pollution Control Board by reasons of such breach including the liability to pay any differences between the prices accepted by him and those ultimately paid for the services concerned. The damages assessed by the Chairman, Tamilnadu Pollution Control Board will be final in this matter.

(To be enclosed in Cover -A )

**ANNEXURE – I**  
**DECLARATION**

I / We .....

having our office at .....

declare that I / We have carefully read all the conditions of the tender sent to me by the Chairman, Tamilnadu Pollution Control Board, Chennai-600 032 for the tender floated by him for the supply of Chemicals and Certified Reference Material (CRM) “.....”

And abide by all the conditions set forth therein.

Place:

Signature with Seal

Date :

Address:

(To be enclosed in Cover -B )

**ANNEXURE II**

(Price Bid)

**Tender for the supply of Chemicals and Certified Reference Material (CRM) under rate contract for one year (Price Catalogue and Table I & II)**

- 1. Name of the Chemicals required** : **Chemicals and Certified Reference Material (CRM) listed in Table I & II.**
- 2. Quantity** : **Lump sum.**
- 3. Place of Delivery** : **To all the laboratories of TNPC Board as noted in Annexure V**

**CHEMICALS MEETING ACS GRADE ON ABOVE**

Sl. No.	Name of the Chemical	Required pack size	Quantity required	Brand	Grade	Catalogue No.
					To meet ACS/ Above ACS.	
(1).	(2).	(3).	(4).	(5).	(6).	(7).

Reference Page No.	Rate/ unit in	Discount if any	Rate after discount	GST @ 18%	Rate / Tax unit	Total Amount
(8).	Rs. (9)	Rs. (10)	Rs. (11)	Rs. (12).	Rs.(13)	Rs.(14)

**CERTIFIED REFERENCE MATERIAL**

Sl. No.	Name of the Chemical	Required pack size	Quantity required	Brand	Grade	Catalogue No
					NIST certified	
(1).	(2).	(3).	(4).	(5).	(6).	(7).

Reference Page No.	Rate/ unit in	Discount if any	Rate after discount	GST @ 18%	Rate / Tax unit	Total Amount
(8).	Rs. (9)	Rs. (10)	Rs. (11)	Rs. (12).	Rs.(13)	Rs.(14)

- 4. Delivery period required** :
- 5. Guarantee/Warranty offered** :
- 6. Validity of the offer** :

Place:

Signature with Seal

Date

Address:

(To be enclosed in Cover -B )

**ANNEXURE – III**

**SPECIAL CONDITIONS OF TENDER FOR THE SUPPLY OF CHEMICALS AND CERTIFIED REFERENCE MATERIAL (CRM) TO TAMILNADU POLLUTION CONTROL BOARD, CHENNAI.**

**1. PRICE**

The rates quoted shall be inclusive of free delivery at the locations indicated by Tamilnadu Pollution Control Board.

**2. PAYMENT**

Payment will be made within 30 days after proper certification of bills for the satisfactory receipt of the chemicals by the head of laboratories.

- 3. GUARANTEE:** During the period of contract, the supplier should undertake to replace any defective/ broken chemicals supplied and chemicals which are not as per specifications, immediately on receipt of intimation from the Head of laboratories. The above defective / broken supply should be replaced at free of cost at site.

**4. DELIVERY**

The chemicals should be supplied within the delivery period mentioned in the supply order.

**5. SECURITY DEPOSIT**

Security Deposit equivalent to 5% of the value of the supply order should be remitted within 7 days from the date of receipt of the supply order.

**6. AGREEMENT**

The successful Tenderer shall execute an agreement on a 20/- Rupee non-judicial stamp paper with the Chairman, Tamilnadu Pollution Control Board, Chennai within 15 days from the date of receipt of supply order. The specimen form of the agreement bond will be supplied by Tamilnadu Pollution Control Board.

**7. PENALTY**

Any delay in supplying the chemicals shall be the responsibility of the suppliers and supply beyond the stipulated delivery period will attract penalty at the rate of 10% p.a. for every day of delay beyond the time schedule of delivery.

**8. VALIDITY**

The rates quoted shall be valid for a minimum period of 90 days from the date of opening for the Tender.

Place :

Date :

Signature of Tenderer  
and Address

**ANNEXURE - IV**

**CHECKLIST OF DOCUMENTS ENCLOSED IN THE COVER**

	<b>Page No.</b>	<b>YES</b>	<b>NO</b>
1. Duly attested photocopy of license for Authorization	<input type="text"/>	<input type="text"/>	<input type="text"/>
2. Documentary evidence for the constitution of the firm	<input type="text"/>	<input type="text"/>	<input type="text"/>
3. Letter issued by the manufacturer for authorization of agency	<input type="text"/>	<input type="text"/>	<input type="text"/>
4. Sale Tax Clearance Certificate	<input type="text"/>	<input type="text"/>	<input type="text"/>
5. Annexure – I (Declaration)	<input type="text"/>	<input type="text"/>	<input type="text"/>
6. Annexure – II( Price bid)	<input type="text"/>	<input type="text"/>	<input type="text"/>
7. Annexure – III Copy of Tender conditions and schedules duly signed by the Tenderer	<input type="text"/>	<input type="text"/>	<input type="text"/>



(To be enclosed in Cover - A )

**CHECK LIST - B**

	<b>Page No.</b>	<b>YES</b>	<b>NO</b>
1. Summary of price bid	<input type="text"/>	<input type="text"/>	<input type="text"/>
2. The Tender shall be duly filled giving the maximum discount allowed on the price mentioned in the price catalogue	<input type="text"/>	<input type="text"/>	<input type="text"/>
3. Special conditions as in annexure - III	<input type="text"/>	<input type="text"/>	<input type="text"/>

## **ANNEXURE – V**

### **LIST OF TNPCB LABORATORIES:**

1. Advanced Environmental Laboratory,  
76, Mount Salai, Guindy,  
Chennai-32.
2. Advanced Environmental Laboratory,  
Sidco Indl. Estate, Kappalur,  
Thirumangalam Taluk, Madurai-625 008.
3. Advanced Environmental Laboratory,  
P.B.No. 457, Siva Tower,  
1/276, Meyyanur Main Road.,  
Salem.
4. Advanced Environmental Laboratory,  
136-D, Swamy Iyer New Street,  
Ganga Garden  
Coimbatore – 641 001
5. Advanced Environmental Laboratory,  
Auxilium College Road,  
Gandhi Nagar, Vellore – 632 006.
6. Advanced Environmental Laboratory,  
No A 3, SIPCOT Indl.Estate.,  
Kudikadu,  
Cuddalore- 607 005.
7. District Environmental Laboratory,  
25, Developed Plots, Thuvakudy,  
Trichy – 620 015.
8. District Environmental Laboratory,  
77-A South Avenue Road,  
Ambattur Industrial Estate,  
Ambattur, Chennai-600 058

- 9 The Chief Scientific Officer  
District Environmental Laboratory,  
30/2, SIDCO Industrial Estate,  
Pettai, Tirunelveli – 627 010.
- 10 The Dy.Chief Scientific Officer  
District Environmental Laboratory,  
Collector Office Complex,  
Dindigul – 624 004.
- 11 The Dy.Chief Scientific Officer  
District Environmental Laboratory,  
149-A, SIPCOT Complex,  
Near Dharga,  
Hosur – 635126.
- 12 The Dy.Chief Scientific Officer  
District Environmental Laboratory,  
IInd Floor, Kumaran Road,  
Tiruppur – 642 602.
- 13 The Dy.Chief Scientific Officer  
District Environmental Laboratory,  
590/1, Poonamallee High Road,  
Arumbakkam,  
Chennai 600 106.
- 14 The Chief Scientific Officer  
District Environmental Laboratory,  
127, Subrayulu Mudali, 4<sup>th</sup> Street,  
Thoothukudi 626 006.

- 15 The Chief Scientific Officer  
District Environmental Laboratory,  
Maraimalai nagar  
Kanchipuram District.
- 16 The Chief Scientific Officer  
District Environmental Laboratory,  
Kovai Main Road, Near SIPCOT arch,  
Olappalayam PO, Perundurai- 638 052

**TABLE-I****Requirement of Chemicals meeting ACS grade or above**

<b>Sl. No</b>	<b>Name of the Chemicals</b>	<b>Required Pack</b>
1	4-Amino antipyrone	25 gms
2	Acetic Acid (glacial)	500 ml
3	Acetone	500 ml
4	Ammonia	2.5 Lts
5	Ammonium Acetate	500 gms
6	Ammonium Chloride	500 gms
7	Ammonium Ferrous Sulphate	500 gms
8	Ammonium Hepta Molybdate	100 gms
9	Ammonium dihydrogen phosphate	500 gms
10	Ascorbic Acid	5 gms
11	Barbituric Acid	25 gms
12	Barium Chloride	500 gms
13	Boric Acid	500 gms
14	Bromocresol Green	5 gms
15	Butanol	500 ml
16	Calcium Carbonate	500 gms
17	Calcium Chloride dihydrate	500 gms
18	Calcium Oxide (Lumps)	500 gms
19	Carbon Tetra Chloride	500 ml
20	Caustic Soda Commercial Grade	1 kg
21	Chloramine T	250 gms
22	Chloroform	500 ml
23	Copper II Chloride	500 gms
24	Cresol Red	5 gms
25	Cupric Sulphate	500 gms
26	Curcumin	5 gms
27	Dextrose Anhydrous (Glucose)	500 gms
28	Di sod.Hydrogen Ortho-phosphate	500 gms
29	Di Potassium Hydrogen Ortho Phosphate	500 gms
30	Di Sodium Tetra Borate	500 gms
31	Diphenyl Carbazide	10 gms
32	EDTA	100 gms
33	Erichrome Black T	25 gms
34	Ethanol	500 ml
35	Ferric Chloride	100 gms
36	Ferric Sulphate	500 gms
37	Formaldehyde	500 ml
38	Hydrazine Sulphate	100 gms
39	Hydrochloric Acid	2.5 Lts

40	Hydrochloric Acid Commercial	1 kg
41	Hydrogen peroxide 30%	500 ml
42	Hydroxyl Ammonium Chloride	100 gms
43	Iodine Resublimed	100 gms
44	Iron II Sulphate (Ferrous sulphate)	500 gms
45	Isopropyl Alcohol	2 .5 lts.
46	L-Glutamic Acid	250 gms
47	Magnesium Chloride	500 gms
48	Magnesium Sulphate	500 gms
49	Manganous II Chloride	500 gms
50	Manganous II Sulphate	500 gms
51	Mercuric Chloride	250 gms
52	Mercuric Sulphate	250 gms
53	Methyl Orange	25 gms
54	Methyl Red	25 gms
55	Methylene Blue	25 gms
56	Murexide (Amm.purpurate)	5 gms
57	NEDA	5 gms
58	Nitric Acid	2.5 Lts
59	Oxalic acid	500 gms
60	Pararosaniline (imported)	25gms
61	OrthoPhosphoric Acid	500 ml
62	1,10 - Phenanthroline monohydrate	5 gms
63	Perchloric Acid 70%	500 ml
64	Petroleum Ether 40-60 °C	2.5 lit
65	Buffer capsules pH - 4-0	10 Tab
66	Buffer capsules pH - 7 -0	10 Tab
67	Buffer capsules pH - 9.2	10 Tab
68	Phenolphthalien	50 gms
69	Phenol	500 gms
70	Potassium Antimony Tartarate	250 gms
71	Potassium Aluminium Sulphate	500 gms
72	Potassium Chloride	500 gms
73	Potassium Hexa Chloroplatinate	1 gm
74	Potassium Chromate	500 gms
75	Potassium di Chromate	500 gms
76	Potassium Ferricyanide	500 gms
77	Pot-Di hydrogen ortho phosphate	500 gms
78	Potassium Hydrogen Phthalate	500 gms
79	Potassium Hydroxide	500 gms
80	Potassium Iodate	100 gms
81	Potassium Iodide	250 gms
82	Potassium Nitrate	500 gms
83	Potassium Permanganate	500 gms

84	Potassium Sulphate	500 gms
85	Pyridine	500 ml
86	Silica Gel	500 gms
87	Silver Diethyl Dithio Carbamate	5 gms
88	Silver Nitrate	25 gms
89	Silver Sulphate	25 gms
90	Sodium Acetate	500 gms
91	Sodium Arsenite	250 gms
92	Sodium Azide	100 gms
93	Sodium borohydride	100 gms
94	Sodium Chloride	500 gms
95	Sodium Dihydrogen Orthophosphate	500 gms
96	Sodium Fluoride	500 gms
97	Sodium Hydroxide pellets	500 gms
98	Sodium Hypochlorite	1 Ltr
99	Sodium Iodide	250 gms
100	Sodium Nitrite	500 gms
101	Sodium Nitroprusside	100 gms
102	Sodium Sulfite	500 gms
103	Sodium Sulphate anhy.	500 gms
104	Sodium thio Sulphate	500 gms
105	SPADNS	5 gms
106	Starch	500 gms
107	Sulphamic Acid	100 gms
108	Sulphanilamide	100 gms
109	Sulphuric Acid	2.5 Lts
110	Sulphuric Acid (Commercial)	1 kg
111	Universal Indicator	500 ml
112	Zinc Filings	500 gms
113	Zirconyl Oxy Chloride	100 gms
114	Lead Acetate trihydrate	500 gms
115	Stannous chloride	100 gms
116	Sodium carbonate	500 gms
117	Sodium Meta bi sulphate	500 gms
118	Ammonium Sulphate	500 gms
119	Activated charcoal	500 gms
120	Zinc Acetate	500 gms
121	Thorine Indicator	5 gms
122	Sodium bi carbonate	500 gms
123	Barium Perchlorate	250 gms
124	Copper Sulphate	500 gms
125	Sodium Nitrate	500 gms
126	Methanol	500 ml
127	N-hexane (GC-grade)	1000 ml

**MICRO BOIOLOGY :**

128	Brilliant Green Bile Broth	500 gms
129	EC Broth	500 gms
130	MacConkey Broth	500 gms
131	Nutrient Broth	500 gms

**TABLE-II****REQUIREMENT OF CERTIFIED REFERENCE MATERIALS  
(CRM) CHEMICALS**

<b>Sl. No</b>	<b>Name of the Chemicals</b>	<b>Required Pack</b>
1	BOD Standard (10X1)pack	0.69 gms
2	Magnesium Standard	500 ml
3	Turbidity Standard	Pack
4	Copper Standard Solution	100 ml
5	Cyanide STD Solution	500 ml
6	Stearic Acid	100 gms
7	Phenol	100 gms
8	Potassium Standard	500 gms
9	Chromium Standard	100 gms
11	Sodium Standard	500 gms
12	Potassium Hydrogen Phthalate	80 gms
13	Nitrite Standard	500 ml
14	Iron STD Solution	100 gms
15	Potassium Di Chromate	80 gms
16	Sulphate STD Solution	500 ml
17	Calcium STD Solution	500 ml
18	Flouride STD Solution	500 ml
19	pH 9.18 Buffer Solution	(10X1)pack
20	pH 4.005 Buffer Solution	(10X1)pack
21	pH 7.418 Buffer Solution	(10X1)pack
22	Chloride STD Solution	500 ml
23	Nickel STD Solution	500 ml
24	Phosphate STD Sloution	500 ml
25	Calcium Corbonate Volumetric STD	500 ml
26	Sodium Corbonate Volumetric STD	80 gms
27	Cadmium STD Solution	100 ml
28	Nitrate STD Solution	500 ml
29	Zinc STD Solution	100 ml
30	n-Hexadecane	5 ml
31	Lead STD Solution	100 ml