

UNIVERSITY OF GUJRAT

INVITATION FOR BIDS

PROCUREMENT NAME:	PROCUREMENT OF CHEMICALS FOR DEPARTMENT OF BIOCHEMISTRY ,CHEMISTRY, BOTANY AND PHYSICS UNIVERSITY OF GUJRAT
----------------------	---

IFB No. UOG/DP/2021-22/CON-08

University of Gujrat invites bids from reputed firms, registered with Sales Tax & Income Tax departments with active tax payer profile and having adequate past experience and financial capabilities, for supply of above mentioned item(s). Bids shall be processed on **Single Stage Two Envelope Bidding Procedure**. Bidding documents can be obtained w.e.f. the date of its publication on submission of a written request on company's letter head from the office of the Director Purchase University of Gujrat. Request must be accompanied with **Bid Fee of Rs. 1,000/-** in form of Pay Order/Demand Draft or Cash Deposit challan for tender fee. Tender fee challan can be downloaded from UOG's website (uog.edu.pk). Bidding documents can also be **downloaded from PPRA's website** and Pay Order/Demand Draft of bid fee must be attached along with technical bid submitted. **Technical Proposal must contain Bid Security in the form of CDR/Demand Draft/Pay Order in favor of Treasurer, University of Gujrat (Bid security @ 2% of Estimated Cost as given in tender documents)**. Sealed bids in conformity with bidding documents should reach in the office of the Director Purchase UOG, not later than **01:30PM on 31-03-2022**. Sealed proposals shall be opened on same day **at 02:00PM** in the presence of bidders or their representatives having valid authority letter from their respective organization. University shall not be responsible for delays & non delivery caused by courier firms/post office etc. regarding issuance & receiving of bidding document/proposals etc. Bids which are incomplete, unsigned & unstamped on bid form, unsealed, without bid security and late by specified time shall not be considered. The University Management may reject all bids at any time prior to acceptance of a bid, as provided under Rule-35 of Punjab Procurement Rules-2014.

**DIRECTOR PURCHASE
ADMIN BLOCK
HAFIZ HAYAT CAMPUS
UNIVERSITY OF GUJRAT
053-3643331-3643334 Ext-117**

GENERAL INSTRUCTIONS FOR BIDDERS

1. Bidders are requested to read each & every clause of bidding documents carefully including instructions for bidder part.
2. Organization must be registered with Federal Board of Revenue for Income & Sales Tax Purposes with active tax payer profile.
3. Bidding documents can be obtained on submission of a written request on company's letter head from office of the Director Purchase University of Gujrat. Request must be accompanied with **Bid Document Fee as prescribed in tender notice**, in form of Pay Order/Demand Draft/ in favor of "Treasurer University of Gujrat" or cash deposit voucher in UOG Misc. Fee. A/C# 6510031945600024, Bank of Punjab UOG Branch Gujrat. Bidding documents can also be **downloaded from PPRA's website** and Pay Order/Demand Draft of bid fee must be attached along with technical bid submitted.
4. Technical Proposal must contain **2% Bid Security** in the form of **CDR/Demand Draft/Pay Order** in favor of **Treasurer, University of Gujrat** (Bid security @ 2% of Estimated Cost as given in tender documents).
5. Bidding procedure of **single stage two envelope** shall be applicable under Punjab Procurement Rule 38 (1) which implies; -
 - i. The UOG officials before award of the contract may seek. The bid shall be submitted in a single package consisting of two separate envelopes, containing separately the financial and the technical proposals;
 - ii. The envelopes shall be marked as, "Financial Proposal" and "Technical Proposal";
 - iii. In the first instance, the "Technical Proposal" shall be opened and the envelope marked as "Financial Proposal" shall be retained unopened in the custody of University;
 - iv. University shall evaluate the technical proposal and shall have right to reject proposals which does not conform to specified requirements;
 - v. After the evaluation and approval of technical proposals University shall open the financial proposals of technically acceptable bids for which time, date and venue shall be communicated to bidders in advance;
 - vi. The financial bids found technically not acceptable shall be returned unopened to the respective bidders and;
 - vii. The lowest evaluated bidder shall be awarded contract within the original or extended bid validity period;
6. **Sealed bids** in conformity with bidding documents should reach in the office of the Director Purchase UOG, not later than date & time as prescribed in tender notice. Proposals shall be opened on same **day & time as prescribed in tender notice** in the presence of bidders or their authorized representatives.
7. University shall not be responsible for delays & non delivery caused by courier firms/post office etc. regarding issuance & receiving of bidding document/proposals.
8. **In case of holiday** or unforeseen situation resulting closure of University on the date of opening, bids shall be submitted/opened on next working day at the same time & venue.
9. Bids which are incomplete, without signatures & stamp, unsealed, without bid security and late by specified time shall not be considered.
10. Bids proposing substandard, low quality or refurbished items shall be rejected. Documentary evidence showing genuineness of brand name, model and country of origin of the product so offered should also be attached, if required.
11. Flags may be applied putting in order all necessary documents and particulars to these instructions. Page numbers should be written on entire proposal with sign & stamp of authorized officials.

12. Bidding organization is expected to quote **proposal in accordance to bid form**. In case it intends to use its own pattern of bid form then every component offered by bidding organization must be clearly identified about its matching/reference component number given in University's prescribed bid form.
13. Bidding organization should submit an **affidavit about its status about present black listing** by Govt. and its subsidiary organizations/ departments/ autonomous bodies.
14. Rates must be quoted in Pak Rupees including all relevant Taxes and FOR Gujrat basis.
15. **One person may submit one bid** and if one person submits more than one bids, the procuring agency shall reject all such bids, as provided under Rule-36a of Punjab Procurement Rules, 2014.
16. Successful bidder shall have to enter into **contract agreement** on stamp paper, of **Rs.1,200/-** or **0.25% of ordered value** whichever is greater, on standard terms & conditions of bidding regarding items, technical specifications, their costs, delivery time, removal of defects, warranty, inspection & completion certification of qualitative and quantitative aspects, billing, payments, closing of contract and other necessary terms.
17. **Performance guarantee** in shape of CDR/Bank Draft/unconditional bank guarantee shall be submitted by successful bidder/contractor equivalent to **5% of contract** amount. Insurance guarantees/cheques or third party undertakings shall not acceptable.
18. **Quantity** of items may vary (increase/decrease) at the time of supply order, as per PPRA rules.
19. Proposals shall remain valid for at **least 120 days**, initially, w.e.f. opening date.
20. University Management may reject all bids at any time prior to the acceptance of a bid, as provided under Rule-35 of Punjab Procurement Rules, 2014.
21. A certificate of analysis shall be provided by the bidder, where required and should be part of technical proposal, where required.
22. **5% Performance guarantee** will be retained by the University for the period of warranty of products supplied. For **consumable items like stationery, hardware etc.**, warranty period may be considered from three (03) months to six (06) months.
23. Conditional bids, if submitted, shall be rejected at any stage of procurement process by the University of Gujrat.
24. Bidder can quote any item from the BOQ.
25. "Under rule 21(1) of Punjab Procurement Rules 2014, University management may, for a specified period, debar a bidder or contractor from participating in any public procurement process, if the bidder or contractor has:
 - I. Acted in a manner detrimental to the public interest or good practices.
 - II. Consistently failed to perform his obligation under the contract.
 - III. Not performed the contract up to the mark.
 - IV. Indulged in any corrupt practice."

1. **Evaluation criteria:**

The proposals will be evaluated based on the submitted documents as per following criteria.

a. Technical Evaluation Criteria

Sr.	Criteria	Total Marks
1	<u>Specific Experience</u> of undertaking 3 Similar Assignments with Government Agencies in last 3 years Work order equal to 33% of estimated cost of tender = 10 Points Work order equal to 66% of estimated cost of tender = 20 Points Work order equal to 100% of estimated cost of tender = 30 Points	30
2	Financial Position (Bank Statement for period 01.07.20 to 30.06.2021) at closing balance 10 marks for bank balance equal to 33% of estimated cost of tender 20 marks for bank balance equal to 66% of estimated cost of tender 30 marks for bank balance equal to 100% of estimated cost of tender	30
4	Evaluation of Technical specifications	40
	Qualifying Marks = 60	

b. Financial Bid of those bidders will be open whose technical bids are considered as qualified by the respective committee/office.

Bidder's Profile

Firm Name			
Entity of Firm	<input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input type="checkbox"/> Company <input type="checkbox"/> Other		
Nature of Business			
Addresses / Branches			
Telephone / Fax			
Email			
Date & Place of Registration			
Company's NTN / Sales Tax Reg. No.	NTN _____ S.T.N. _____		
Owner's Detail	Name: _____ CNIC _____ Address _____		
No. of Employees			
Year of Establishment			
Annual Sales	2018-19	2019-20	2020-21
Five Major Clients	i) _____ ii) _____ iii) _____ iv) _____ v) _____		
Bank Details	Bank: _____ A/c # _____		

SIGNATURE

Check List for Required Documents

Name of Organization: _____

Sr.	Document	Attached Yes / No	Flag
1	Copy of CNIC		
2	2% Bid Security amounting Rs.		
3	Copy of Registration with FBR with active tax payer profile		
4	Certification of Professional Tax		
5	Affidavit of Non Black Listing		
6	Certificate of Analysis (where required)		
7	Authorization/Dealership/Distributor certificate (If Required)		

TECHNICAL SPECIFICATIONS
Total Estimated Cost Rs. 2,817,968/-

1. Deptt. of Biochemistry

Sr. #	Items Description / Specification	Quantity	Total Amount with S. Tax
1	Taq Polymerase	5 vials (1000U)	46,800
2	Proline (amino acid)	100g (1 Pack)	5,850
3	Cysteine (amino acids)	100g (1 Pack)	5,850
4	Tyrosine (amino acids)	100g (1 Pack)	5,850
5	Glycine (amino acids)	2Kg	14,040
6	Resorcinol	3g	14,040
7	Ethylene-diamine-tetraacetic acid (EDTA)	2Kg	7,020
8	Potassium dihydrogen phosphate	1Kg	3,510
9	Dipotassium hydrgogen phosphate	1Kg	3,510
10	Ethidium Bromide	200g (1 Pack)	7,020
11	Ethanol	5 L	17,550
12	Methanol	5 L	17,550
13	Glucose	5 L	17,550
14	Primer Synthesis	4 samples	23,400
15	Sequencing	4 samples	28,080
16	Glacial Acetic Acid	2 L	9,360
17	Trichloroacetic acid	1Kg	14,040
18	sulphuric acid (conc)	2L	18,720
19	hydrochloric acid (conc)	2L	18,720
21	Agar	2 Kg	28,080
22	LB Broth	2 Kg	46,800
23	Glass Test tubes	100 Tubes	29,250
24	White (20ul), blue (1000ul)and yellow tips (200ul)	10 packs each	35,100
25	Glass slide and cover slips	5 packs each	23,400
26	Conical Flasks (250ml /500ml)	50 each	29,250
27	Petri plates (glass)	100	23,400
28	Beakers (50, 100 ml, 500ml)	20 each	8,190
29	Falcon tubes (15, 50 ml)	4 packs each	28,080
30	Glass pipetes and sucker	200 pice	35,100
31	Test tube stands	50 pice	11,700
32	Test tube holders	50 Pice	8,775
33	Glass rod	100 pice	11,700
34	Reagent bottels (250ml, 500, 1000ml)	20 each	11,700
Total Amount with Tax			608,985

2. Department of Physics

Sr. #	Items Name / Description / Formula	Quantity	Total Amount Price (Rs.) with S. Tax
1	Manganese Dioxide/ MnO ₂	02 Kg	5,850
2	Dysprosium powder/ Dy ₂ O ₃	01 Kg	9,360
3	Tungsten Nitrate/W(NO ₃) ₆	01 Kg	7,020
4	Tantalum Powder/Oxide/O ₅ Ta ₂	01 Kg	11,700
5	Nickel foam /Ni	01 Pack (15cmx25cm) Pack	11,700
6	Cobalt Nitrate / Co(NO ₃) ₂	100g	9,360
7	Ferric Nitrate/Fe(NO ₃) ₃	100g	4,680
8	Cerium Nitrate/Ce(NO ₃) ₃	01 Kg	9,360
9	Cobalts Oxide/CoO	01 Kg	10,530
10	Ruthenium Chloride Hydrated)/Cl ₃ H ₂ ORu	01 Kg	17,550
11	Titanium Powder/Ti	01 Kg	5,850
12	Dimethylhydrazine/C ₂ H ₈ N ₂	1 liter	2,340
13	Methanol /CH ₃ OH	10 Liter	14,040
14	Teflon Bottles for Autoclave(100ml)	4	4,680
15	Polyvinylacetate/(C ₄ H ₆ O ₂) _n	500g (1 Pack)	3,510
16	Hydrochloric acid/HCl	5 Liter	7,020
17	Potassium permanganate/KMnO ₄	500g (1 Pack)	3,510
18	Hydrogenperoxide/H ₂ O ₂	10 Liter	11,700
19	Sulphuric Acid/H ₂ SO ₄	5 Liter	9,360
20	Vanadium Oxide/V ₂ O ₅	500g	4,680
21	Potassium Hydroxide/ (KOH)	1000g 2 Packs	9,360
22	Ethanol Absolute/C ₂ H ₅ OH (Research Grade)	5 liters	8,190
23	Sodium tungstate dehydrate/Na ₂ WO ₄	500 g (1 Pack)	1,404
24	Isopropanol/C ₃ H ₈ O	5 Ltr	11,700
Chemical Items (Powder)			
25	Bismuth Nitrate Pent-Hydrate/ Bi(NO ₃) ₃ .5H ₂ O	500 gram (1 Pack)	12,870
26	Citric Acid Anhydrous/ C ₆ H ₈ O ₇	1 Kg	5,850
27	Cobalt-II-Chloride/ COCl ₂	1 Kg	8,190
28	Copper Nitrate/ Cu(NO ₃) ₂ .3H ₂ O	1 kg	17,550
29	C-TAB(Cetyl-Trim-Ethyl Ammonium) /C ₁₉ H ₄₂ BrN	500 gram (1 Pack)	7,020
30	Gallium-III-Nitrate Hydrate /Ga(NO ₃) ₃ .XH ₂ O	5 gram (1 Pack)	8,190
31	Graphite Powder Graphite Powder	500 gram (1 Pack)	585
32	Iron Nitrate Nona-Hydrate/ FeN ₃ O ₉ .9H ₂ O	EA-3,500 gram (1 Pack)	17,550
33	Lanthanum-III-Nitrate/ La(NO ₃) ₃ .6H ₂ O	100 gram (1 Pack)	4,680
34	Magnesium Chloride/ MgCl ₂	1 Kg	1,755
35	Manganese-II-Chloride Tetra-Hydrate/ MnCl ₂ .4H ₂ O	500 gram (1 Pack)	2,340
36	Nickle-II-Oxide/ NiO	500 gram (1 Pack)	7,020
37	Nickle Nitrate Hexa-Hydrate /N ₂ NiO ₆ .6H ₂ O	1000 gram	23,400

38	Polyethylene Glycol H/(CH ₂ CH ₂ O)	1 kg	1,755
39	Polyvinyl Alcohol/ [CH ₂ CH(OH)] _n	1 kg	2,340
40	Poly-Vinyl-Pro-lid-One K,30	500 gram (1 Pack)	5,265
41	Potassium Hydroxide/ KOH	6 Kg	10,530
42	Samarium-III-Chloride Hexa-Hydrate /SmCl ₃	10 gram (1 Pack)	52,650
43	Silver Nitrate/ AgNO ₃	500 g	9,360
44	Sodium Boro-Hydride/ NaBH ₄	50 gram (1 Pack)	4,680
45	Sodium Hydroxide/ NaOH	8 Kg	18,720
46	Sodium Sulfate/ Na ₂ SO ₄	1 Kg	1,755
47	Sodium Thiosulfate/ Na ₂ S ₂ O ₃ .5H ₂ O	1 Kg	4,680
48	Sulfur (Powder) s	500 gram (1 Pack)	4,680
49	Tin-II-Chloride /SnCl ₂ .2H ₂ O	250 gram (1 Pack)	4,680
50	Urea/ CH ₄ N ₂ O	5 Kg	1,755
51	Zinc Nitrate Hexa-Hydrate/ Zn(NO ₃) ₂ .6H ₂ O	4 Kg	18,720
52	Zinc Oxide/ ZnO	1 kg	2,340
53	Ammonium Sulfate/(NH ₄) ₂ .SO ₄	500 gram (1 Pack)	4,680
Chemicals Items (Solvent)			
54	Acetone/ (CH ₃) ₂ CO	5 Liter	11,700
55	Ammonia Solution/ NH ₄	10 Liter	14,040
56	Ammonium Hydroxide/ NH ₄ OH	500 ml (1 Pack)	4,680
57	Deionized Water (Distilled Water)/ H ₂ O	20 Liter	4,680
58	Dimethyl-Form-Amide/ C ₃ H ₇ NO	5 Liter	8,190
59	Ethanol Absolute/ C ₂ H ₆ O	12.5 Liter	23,400
60	Ethylene Glycol /C ₂ H ₆ O ₂	3 Liter	7,020
61	Hydro Chloric Acid/ HCL	5 Liter	9,360
62	Hydrogen Peroxide/ H ₂ O ₂	1 Liter	2,925
63	Sulfuric Acid/ H ₂ SO ₄	5 Liter	7,020
64	Titanium-IV-Isopropoxide/ C ₁₂ H ₂₈ O ₄ Ti	500ml	52,650
65	Tri-Ethyl-Amine/ C ₆ H ₁₅ NO ₃	2 Liter	2,340
66	Isopropyl Alcohol (Propanol)/ C ₃ H ₈ O	10 Liter	18,720
67	Methanol/ CH ₃ OH	5 Liter	2,925
Consumables			
68	Activated Carbon Pure	2 kg	8,190
69	Aluminum Foil	6 Roll	2,106
70	Cellular Weighting Paper (Dishes)	5 Piece	2,925
71	Centrifuge Test Tube (15 ml)	1 Pack (100)	1,755
72	Cotton Wool Roll	5 Roll	1,170
73	Double Side Tape	5 Roll	1,463
74	Face Mask	5 Box	878
75	Petri Dishes (Plastic) (160 mm)	3 Pack (20)	1,053
76	Polythene Bags Reusable (Small + Big)	(3+2) = 5 kg	4,095
77	Rubber Gloves	10 Box (75)	3,510
78	Tips-One in Rack Blue Universal PP (200 ul)	1 Rack (96) piece	585

79	Inextensible string 0.5mm diameter	2 roll	234
80	Rectangular Metal plates for mass spring system (12*12 inch ²)	10	9,360
81	Zener Diode in (4728)	50	293
82	Zener Diode in(4729)	40	281
83	Zener Diode in (4730)	30	176
84	Zener Diode in (4731)	20	117
85	Zener Diode in (4732)	25	146
86	Zener Diode in (4733)	15	88
87	Zener Diode in (4734)	20	117
88	Zener Diode in (4735)	15	88
89	Zener Diode in (4736)	25	146
90	Zener Diode in (4737)	15	88
91	Zener Diode in (4738)	20	117
92	Zener Diode in (4739)	20	117
93	Zener Diode in (4740)	25	146
94	Zener Diode in (4741)	20	117
95	Zener Diode in (4742)	40	281
96	Zener Diode in (4743)	20	117
97	Zener Diode in (4744)	25	146
98	Zener Diode in (4745)	20	117
99	Zener Diode in (4746)	30	176
100	Zener Diode in (4747)	15	88
101	Zener Diode in (4748)	30	176
102	Zener Diode in (4749)	25	293
103	Zener Diode in (4750)	50	293
104	Zener Diode in (4001)	200	1,170
105	Diode (Si)	1000	5,850
106	Diode (Ge)	1000	5,850
107	Capacitors 103	50	1,170
108	Capacitors 3.3μF 50V	45	1,053
109	Capacitors 103μF 50V	40	936
110	Capacitors 0.027μF 50V	50	1,170
111	Capacitor (0.2-05) μF	50	117
112	Transistor BC 557	15	88
113	Transistor BC 407	20	117
114	Transistor C 945	50	293
115	Transistor C 5578	25	146
116	Transistor C 1815	30	211
117	Transistor C 58050	40	281
118	Transistor BC 517	50	351
119	Transistor BC 548	40	281
120	Transistor BC 549	30	211
121	Transistor BC 107	30	246

122	Transistor BC 108	50	351
123	Transistor BC 109	45	293
124	Transistor C 828	50	410
125	Transistor BC 409	40	281
126	Transistor AC 187	20	140
127	Transistor AC 188	10	59
128	Transistor 2S C 828	50	293
129	Transistor 2N 2222	10	59
130	Transistor 2N 3055	5	29
131	NOT GATE 7404	100	3,510
132	Connecting wires 2 feet length)	1000	1,170
133	XOR GATE 7486	100	4,680
134	OR GATE 7432	100	4,095
135	NAND GATE 7400	100	5,265
136	NOR GATE 7402	100	4,095
137	AND GATE 7408	100	4,095
138	Regulator ML 791A	50	702
139	Regulator LM 7805	50	585
140	Regulator D 313	50	878
141	Regulator ML 791A	50	878
142	Resistor K Ω	50	293
143	Resistor 22K Ω	50	293
144	Resistor 56K Ω	50	293
145	Resistor 4.7K Ω	50	293
146	Resistor 5KVR	50	1,170
147	Resistor K Ω	50	293
148	Resistor (1-9M Ω)	50	293
149	LED in Red color	400	3,276
150	LED in White color	300	2,457
151	LED in Blue color	350	2,867
152	LED in Yellow color	200	1,638
153	LED in Green Color	450	3,686
154	Light dependent Resistor LDR	100	1,755
155	Crocodile wires	100	5,850
156	Soldering wires	5 coil	4,973
157	Stop watch Cells 1.5v (LR-44 button cell)	20	468
158	Sprit leave lamp	2	468
159	Capillary tubes of uniform bore and different diameter	100	585
160	Thin rubber tube band	50	527
161	Sharp pointed thin needle	20	234
162	Glass trough	5	1,170
163	Thermometer and an adjustable stand	5	2,340
164	Inductor (Inductance 200 mH 110 mH or any available with value	100	2,340

165	Battery (2-3 cells),	50	585
166	9 Volt Batteries	50	1,170
167	Operational Amplifier 741	50	293
168	Thermocouple	10	936
169	Lab safety gloves	10	1,170
170	Commentator (reversing key)	10	3,510
171	Copper Wire	2 roll	234
172	Accumulator	10	5,850
173	Beaker 250ml(Pitcher attached)	20	4,680
174	Plastic Protractor of large size(Picture attached)	20	936
175	Blackboard Chalk 3 different Color	10 peck	117
176	Jumper Connecting wires	6000	7,020
177	Plastic-tape different colors	20 pack	702
178	Samad bond	20	936
179	Prism(Picture attached)	20	4,680
180	Thin cotton thread) (Picture attached)	20	702
181	Inductor 180μh,195uh	50 each	2,340
182	Cell holder(Picture attached)	50	1,463
183	Diffraction grating 10,20,50,100,600,1000 lines/mm	100	1,170
184	Battery cap(Picture attached)	50	293
185	Beam splitter 40mm	5	5,850
186	Glue gun steak(Picture attached)	20 pack	468
187	Rubber corks	15	263
188	Knife edge	5	304
Total Amount with GST			805,370

3. Department of Botany

Sr.	Name of item/Specification	Quantity	Total with GST
1	Methanol analytical grade	5 litres	4,750
2	Methanol HPLC grade (Merck)	8 litres	10,688
3	Ethanol Analytical grade Sigma	10 litres	11,400
4	Ethanol Analytical grade (Merck)	5 litres	8,550
5	n-hexane HPLC grade (Merck)	10 litres	11,400
6	n-hexane HPLC grade (Merck)	8 litres	17,480
7	Chloroform HPLC grade (Merck)	5 litres	20,900
8	Ethyle acetate HPLC grade (Merck)	5 litres	20,140
9	Isopropanol HPLC grade (Merck)	5 litres	16,910
10	Thin Layer Chromatography Plates 20x20 cm, glass back. Kieselgel 60, F254, 0.25 and 0.5 mm, respectively)	1 packs of 25 plates	32,870
11	Thin Layer Chromatography Plates 20x20 cm, Aluminium back. Kieselgel 60, F254, 0.25 and 0.5 mm, respectively)	1 pack of 25 plates	31,350
12	Acetonitrile HPLC grade (Merck)	4 litres	19,950

13	Lactophenol	1 packet	4,370
14	Trypan blue	1 packet of 5 grams	6,175
15	Acetone HPLC grade	5 litres	8,550
16	Nutrient agar	2 kgs	18,050
17	Malt Extract (Germany)	1 kgs	22,420
18	Agar agar	2 kgs	13,300
19	Yeast extract	1 kg	20,710
20	Peptone	1 kg	26,600
21	DPPH	3 grams	48,450
22	Petriplates glass (Germany)	100 pairs	39,000
23	Petriplates glass (China)	150 pairs	18,600
24	Separating funnel glass Pyrex (500 ml)	10 units	19,000
25	Conical funnel glass	30 units	4,290
26	EDTA	2 kgs	11,116
27	Filter paper ordinary (9cm diameter)	50 packets	10,000
28	Filter paper ordinary (sheets) China	10 units of 100 sheets each	19,000
29	Methylene blue	25 grams	1,150
30	Sodium hexametaphosphate	1 kg	6,650
31	Ammonium Heptamolybdate	250 g	4,275
32	Ammonium vanadat	250 g	5,750
33	nitric acid	1 L	3,325
34	potassium dihydrogen phosphate	1 Kg	3,325
35	pumice boiling granules	250 g	3,325
36	p-nitrophenol	50 g	5,225
37	Test tubes	200 units	5,800
38	Measuring Cylinder (5 mL)	10 units	2,380
39	Volumetric flask (5 mL)	10 units	3,330
40	Volumetric flask (10 mL)	10 units	3,330
41	Volumetric flask (20 mL)	10 units	3,330
42	Volumetric flask (50 mL)	10 units	3,330
43	Volumetric flask (100 mL)	10 units	3,330
44	Glass stirrer	20 units	1,240
45	Glass Pipettes	20 units	9,500
46	Aluminium Foil	50 units	33,250
47	Hydrogen peroxide	2 litres	4,750
Total Amount with GST			602,614

4. Department of Chemistry

Sr	Name of item/Specification	Quantity	Total with GST
1	Sodium thio sulphate	1Kg (2 Pack)	10000
3	potassium iodide	1 kg	9000
4	Starch indicator	1 kg	5000
5	Sodium Carbonate	1Kg (2 Pack)	8000
6	Sodium Bicarbonate	1Kg (2 Pack)	6000
7	Eriochrom black T indicator	100 gms	10000
8	Sodium Hydroxide	1Kg (5 Pack)	10000
9	Potassium Hydroxide	1Kg (2 Pack)	15000
10	Ammonium hydroxide	2.5 liters (2 Pack)	10000
11	Magnesium Hydroxide	1Kg (2 Pack)	14000
14	Potassium di chromate	1 kg	11000
16	Hydrochloric Acid	2.5 liters (4 Pack)	10000
17	Sulphuric Acid	2.5 liters (4 Pack)	12000
18	Nitric Acid	2.5 liters (4 Pack)	15000
19	Acetic Acid glacial	2.5 liters (2 Pack)	10000
20	Formic Acid	2.5 liters (2 Pack)	10000
21	Oxalic acid	1Kg (2 Pack)	15000
22	Tartaric Acid	1Kg (2 Pack)	7000
23	Citric Acid	1Kg (2 Pack)	6000
24	ascorbic acid	1Kg (2 Pack)	8000
25	Ninhydrin	25 gms	15000
27	Alpha naphthol	1 kg	15000
30	copper sulphate	1Kg (2 Pack)	10000
31	Sodium Sulphate	1Kg (2 Pack)	10000
33	Cuprous chloride	1 kg	9000
34	ferric chloride	1Kg (2 Pack)	5000
36	Diethyl ether	2.5 liters (4 Pack)	15000
37	Methanol HPLC grade	4 lit (1pack)	8000
38	Methanol analytical grade	2.5 liters (4 Pack)	10000
39	Acetone	2.5 liters (2Pack)	10000
40	chloroform	2.5 liters (4 Pack)	10000
41	dichloromethane	2.5 liters (2Pack)	12000
42	isopropanol	2.5 liters (2Pack)	10000
43	n.Hexane	2.5 liters (2Pack)	10000
45	Resorcinol	1 kg	8000
46	Solochrom Black	100 gms	5000
47	Murexoide	100 gms	5000
48	potassium nitrate	1 kg	6000
49	sodium nitride	1 kg	3000
50	barium sulphate	1 kg	7000
52	phenolphthalein	100 gms	3000
53	xylanol	100 gms	5000

54	bismuth chloride	1 kg	8500
55	ammonium chloride	1 kg	4500
56	mercuric chloride	1 kg	9000
59	zinc powder	1 kg	4000
60	Potassium dihydrogen phosphate	1 kg	8000
61	Nickel chloride	1 kg	8500
62	Cerium nitrate	100 g	13000
63	Sodium chloride	1 kg	3000
65	3,4,5-Trimethoxybenzaldehyde	1 kg	10000
70	Glucose	1 kg	5000
71	fructose	1 kg	5000
72	lactose	1 kg	4000
73	sucrose	1 kg	4000
74	arabinose	100 gms	6000
75	galactose	500 gms	9000
76	acryl amide	500 gms	14000
77	potassium per sulphate	500 gms	7500
79	Dopamine Hydrochloride (Sigma/Equivalent)	100 gms	13000
80	Paraansidine (Sigma/Equivalent)	100 gms	9000
81	molybdenum chloride	500 gms	14000
82	Urea	1 Kg (2pack)	3000
83	phosphoric acid	1 kg	14000
84	thio urea	1 kg	17000
87	manganese sulphate	1 kg	14500
88	ferrous sulphate	1 kg	13500
90	pH paper	1pack	3000
94	Aluminium foil	5 units	4000
95	Glutamic acid	100 gms	14500
96	cystein	100 gms	15500
97	proline	100 gms	13000
98	EDTA	1 kg (2 pack)	18000
99	Silver iodide	500 gms	15000
100	8-Hydroxyquinoline	25 gms	18500
102	Standard calibration solution conductivity meter	1 pack	2000
103	Neutral Soap	1 packing	3000
104	methylated spirit	2.5 (2 pack)	2000
105	Standard calibration solution pH-4	1 pack	5000
106	Standard calibration solution pH-7	1 pack	5000
107	Standard calibration solution pH-10	1 pack	5000
108	Sodium chloride	2 kg	2000
109	DPPH Radical	5 gms	45000
110	phthalic anhydride	1 kg	17500
Total Amount with GST			801000

FINANCIAL PROPOSAL

1. Deptt. of Biochemistry

Sr. #	Items Description / Specification	Quantity	Total Amount with S. Tax
1	Taq Polymerase	5 vials (1000U)	
2	Proline (amino acid)	100g (1 Pack)	
3	Cysteine (amino acids)	100g (1 Pack)	
4	Tyrosine (amino acids)	100g (1 Pack)	
5	Glycine (amino acids)	2Kg	
6	Resorcinol	3g	
7	Ethylene-diamine-tetraacetic acid (EDTA)	2Kg	
8	Potassium dihydrogen phosphate	1Kg	
9	Dipotassium hydrgogen phosphate	1Kg	
10	Ethidium Bromide	200g (1 Pack)	
11	Ethanol	5 L	
12	Methanol	5 L	
13	Glucose	5 L	
14	Primer Synthesis	4 samples	
15	Sequencing	4 samples	
16	Glacial Acetic Acid	2 L	
17	Trichloroacetic acid	1Kg	
18	sulphuric acid (conc)	2L	
19	hydrochloric acid (conc)	2L	
21	Agar	2 Kg	
22	LB Broth	2 Kg	
23	Glass Test tubes	100 Tubes	
24	White (20ul), blue (1000ul)and yellow tips (200ul)	10 packs each	
25	Glass slide and cover slips	5 packs each	
26	Conical Flasks (250ml /500ml)	50 each	
27	Petri plates (glass)	100	
28	Beakers (50, 100 ml, 500ml)	20 each	
29	Falcon tubes (15, 50 ml)	4 packs each	
30	Glass pipetes and sucker	200 pice	
31	Test tube stands	50 pice	
32	Test tube holders	50 Pice	
33	Glass rod	100 pice	
34	Reagent bottels (250ml, 500, 1000ml)	20 each	
Total Amount with Tax			

2. Department of Physics

Sr. #	Items Name / Description / Formula	Quantity	Total Amount with S. Tax
1	Manganese Dioxide/ MnO ₂	02 Kg	
2	Dysprosium powder/ Dy ₂ O ₃	01 Kg	
3	Tungsten Nitrate/W(NO ₃) ₆	01 Kg	
4	Tantalum Powder/Oxide/O ₅ Ta ₂	01 Kg	
5	Nickel foam /Ni	01 Pack (15cmx25cm) Pack	
6	Cobalt Nitrate / Co(NO ₃) ₂	100g	
7	Ferric Nitrate/Fe(NO ₃) ₃	100g	
8	Cerium Nitrate/Ce(NO ₃) ₃	01 Kg	
9	Cobalts Oxide/CoO	01 Kg	
10	Ruthenium Chloride Hydrated)/Cl ₃ H ₂ ORu	01 Kg	
11	Titanium Powder/Ti	01 Kg	
12	Dimethylhydrazine/C ₂ H ₈ N ₂	1 liter	
13	Methanol /CH ₃ OH	10 Liter	
14	Teflon Bottles for Autoclave(100ml)	4	
15	Polyvinylacetate/(C ₄ H ₆ O ₂) _n	500g (1 Pack)	
16	Hydrochloric acid/HCl	5 Liter	
17	Potassium permanganate/KMnO ₄	500g (1 Pack)	
18	Hydrogenperoxide/H ₂ O ₂	10 Liter	
19	Sulphuric Acid/H ₂ SO ₄	5 Liter	
20	Vanadium Oxide/V ₂ O ₅	500g	
21	Potassium Hydroxide/ (KOH)	1000g 2 Packs	
22	Ethanol Absolute/C ₂ H ₅ OH (Research Grade)	5 liters	
23	Sodium tungstate dehydrate/Na ₂ WO ₄	500 g (1 Pack)	
24	Isopropanol/C ₃ H ₈ O	5 Ltr	
Chemical Items (Powder)			
25	Bismuth Nitrate Pent-Hydrate/ Bi(NO ₃) ₃ .5H ₂ O	500 gram (1 Pack)	
26	Citric Acid Anhydrous/ C ₆ H ₈ O ₇	1 Kg	
27	Cobalt-II-Chloride/ COCl ₂	1 Kg	
28	Copper Nitrate/ Cu(NO ₃) ₂ .3H ₂ O	1 kg	
29	C-TAB(Cetly-Trim-Ethyl Ammonium) /C ₁₉ H ₄₂ BrN	500 gram (1 Pack)	
30	Gallium-III-Nitrate Hydrate /Ga(NO ₃) ₃ .XH ₂ O	5 gram (1 Pack)	
31	Graphite Powder Graphite Powder	500 gram (1 Pack)	
32	Iron Nitrate Nona-Hydrate/ FeN ₃ O ₉ .9H ₂ O	EA-3,500 gram (1 Pack)	
33	Lanthanum-III-Nitrate/ La(NO ₃) ₃ .6H ₂ O	100 gram (1 Pack)	
34	Magnesium Chloride/ MgCl ₂	1 Kg	
35	Manganese-II-Chloride Tetra-Hydrate/ MnCl ₂ .4H ₂ O	500 gram (1 Pack)	
36	Nickle-II-Oxide/ NiO	500 gram (1 Pack)	
37	Nickle Nitrate Hexa-Hydrate /N ₂ NiO ₆ .6H ₂ O	1000 gram	
38	Polyethylene Glycol H/(CH ₂ CH ₂ O)	1 kg	

39	Polyvinyl Alcohol/ $[\text{CH}_2\text{CH}(\text{OH})]_n$	1 kg	
40	Poly-Vinyl-Pro-lid-One K,30	500 gram (1 Pack)	
41	Potassium Hydroxide/ KOH	6 Kg	
42	Samarium-III-Chloride Hexa-Hydrate / SmCl_3	10 gram (1 Pack)	
43	Silver Nitrate/ AgNO_3	500 g	
44	Sodium Boro-Hydride/ NaBH_4	50 gram (1 Pack)	
45	Sodium Hydroxide/ NaOH	8 Kg	
46	Sodium Sulfate/ Na_2SO_4	1 Kg	
47	Sodium Thiosulfate/ $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$	1 Kg	
48	Sulfur (Powder) s	500 gram (1 Pack)	
49	Tin-II-Chloride / $\text{SnCl}_2 \cdot 2\text{H}_2\text{O}$	250 gram (1 Pack)	
50	Urea/ $\text{CH}_4\text{N}_2\text{O}$	5 Kg	
51	Zinc Nitrate Hexa-Hydrate/ $\text{Zn}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$	4 Kg	
52	Zinc Oxide/ ZnO	1 kg	
53	Ammonium Sulfate/ $(\text{NH}_4)_2 \cdot \text{SO}_4$	500 gram (1 Pack)	
Chemicals Items (Solvent)			
54	Acetone/ $(\text{CH}_3)_2\text{CO}$	5 Liter	
55	Ammonia Solution/ NH_4	10 Liter	
56	Ammonium Hydroxide/ NH_4OH	500 ml (1 Pack)	
57	Deionized Water (Distilled Water)/ H_2O	20 Liter	
58	Dimethyl-Form-Amide/ $\text{C}_3\text{H}_7\text{NO}$	5 Liter	
59	Ethanol Absolute/ $\text{C}_2\text{H}_6\text{O}$	12.5 Liter	
60	Ethylene Glycol / $\text{C}_2\text{H}_6\text{O}_2$	3 Liter	
61	Hydro Chloric Acid/ HCL	5 Liter	
62	Hydrogen Peroxide/ H_2O_2	1 Liter	
63	Sulfuric Acid/ H_2SO_4	5 Liter	
64	Titanium-IV-Isopropoxide/ $\text{C}_{12}\text{H}_{28}\text{O}_4\text{Ti}$	500ml	
65	Tri-Ethyl-Amine/ $\text{C}_6\text{H}_{15}\text{NO}_3$	2 Liter	
66	Isopropyl Alcohol (Propanol)/ $\text{C}_3\text{H}_8\text{O}$	10 Liter	
67	Methanol/ CH_3OH	5 Liter	
Consumables			
68	Activated Carbon Pure	2 kg	
69	Aluminum Foil	6 Roll	
70	Cellular Weighting Paper (Dishes)	5 Piece	
71	Centrifuge Test Tube (15 ml)	1 Pack (100)	
72	Cotton Wool Roll	5 Roll	
73	Double Side Tape	5 Roll	
74	Face Mask	5 Box	
75	Petri Dishes (Plastic) (160 mm)	3 Pack (20)	
76	Polythene Bags Reusable (Small + Big)	(3+2) = 5 kg	
77	Rubber Gloves	10 Box (75)	
78	Tips-One in Rack Blue Universal PP (200 ul)	1 Rack (96) piece	
79	Inextensible string 0.5mm diameter	2 roll	

80	Rectangular Metal plates for mass spring system (12*12 inch ²)	10	
81	Zener Diode in (4728)	50	
82	Zener Diode in(4729)	40	
83	Zener Diode in (4730)	30	
84	Zener Diode in (4731)	20	
85	Zener Diode in (4732)	25	
86	Zener Diode in (4733)	15	
87	Zener Diode in (4734)	20	
88	Zener Diode in (4735)	15	
89	Zener Diode in (4736)	25	
90	Zener Diode in (4737)	15	
91	Zener Diode in (4738)	20	
92	Zener Diode in (4739)	20	
93	Zener Diode in (4740)	25	
94	Zener Diode in (4741)	20	
95	Zener Diode in (4742)	40	
96	Zener Diode in (4743)	20	
97	Zener Diode in (4744)	25	
98	Zener Diode in (4745)	20	
99	Zener Diode in (4746)	30	
100	Zener Diode in (4747)	15	
101	Zener Diode in (4748)	30	
102	Zener Diode in (4749)	25	
103	Zener Diode in (4750)	50	
104	Zener Diode in (4001)	200	
105	Diode (Si)	1000	
106	Diode (Ge)	1000	
107	Capacitors 103	50	
108	Capacitors 3.3μF 50V	45	
109	Capacitors 103μF 50V	40	
110	Capacitors 0.027μF 50V	50	
111	Capacitor (0.2-05) μF	50	
112	Transistor BC 557	15	
113	Transistor BC 407	20	
114	Transistor C 945	50	
115	Transistor C 5578	25	
116	Transistor C 1815	30	
117	Transistor C 58050	40	
118	Transistor BC 517	50	
119	Transistor BC 548	40	
120	Transistor BC 549	30	
121	Transistor BC 107	30	
122	Transistor BC 108	50	

123	Transistor BC 109	45	
124	Transistor C 828	50	
125	Transistor BC 409	40	
126	Transistor AC 187	20	
127	Transistor AC 188	10	
128	Transistor 2S C 828	50	
129	Transistor 2N 2222	10	
130	Transistor 2N 3055	5	
131	NOT GATE 7404	100	
132	Connecting wires 2 feet length)	1000	
133	XOR GATE 7486	100	
134	OR GATE 7432	100	
135	NAND GATE 7400	100	
136	NOR GATE 7402	100	
137	AND GATE 7408	100	
138	Regulator ML 791A	50	
139	Regulator LM 7805	50	
140	Regulator D 313	50	
141	Regulator ML 791A	50	
142	Resistor K Ω	50	
143	Resistor 22K Ω	50	
144	Resistor 56K Ω	50	
145	Resistor 4.7K Ω	50	
146	Resistor 5KVR	50	
147	Resistor K Ω	50	
148	Resistor (1-9M Ω)	50	
149	LED in Red color	400	
150	LED in White color	300	
151	LED in Blue color	350	
152	LED in Yellow color	200	
153	LED in Green Color	450	
154	Light dependent Resistor LDR	100	
155	Crocodile wires	100	
156	Soldering wires	5 coil	
157	Stop watch Cells 1.5v (LR-44 button cell)	20	
158	Sprit leave lamp	2	
159	Capillary tubes of uniform bore and different diameter	100	
160	Thin rubber tube band	50	
161	Sharp pointed thin needle	20	
162	Glass trough	5	
163	Thermometer and an adjustable stand	5	
164	Inductor (Inductance 200 mH 110 mH or any available with value	100	
165	Battery (2-3 cells),	50	

166	9 Volt Batteries	50	
167	Operational Amplifier 741	50	
168	Thermocouple	10	
169	Lab safety gloves	10	
170	Commentator (reversing key)	10	
171	Copper Wire	2 roll	
172	Accumulator	10	
173	Beaker 250ml(Pitcher attached)	20	
174	Plastic Protractor of large size(Picture attached)	20	
175	Blackboard Chalk 3 different Color	10 peck	
176	Jumper Connecting wires	6000	
177	Plastic-tape different colors	20 pack	
178	Samad bond	20	
179	Prism(Picture attached)	20	
180	Thin cotton thread) (Picture attached)	20	
181	Inductor 180μh,195uh	50 each	
182	Cell holder(Picture attached)	50	
183	Diffraction grating 10,20,50,100,600,1000 lines/mm	100	
184	Battery cap(Picture attached)	50	
185	Beam splitter 40mm	5	
186	Glue gun steak(Picture attached)	20 pack	
187	Rubber corks	15	
188	Knife edge	5	
Total Amount with GST			

3. Department of Botany

Sr.	Name of item/Specification	Quantity	Total Amount with GST
1	Methanol analytical grade	5 litres	
2	Methanol HPLC grade (Merck)	8 litres	
3	Ethanol Analytical grade Sigma	10 litres	
4	Ethanol Analytical grade (Merck)	5 litres	
5	n-hexane HPLC grade (Merck)	10 litres	
6	n-hexane HPLC grade (Merck)	8 litres	
7	Chloroform HPLC grade (Merck)	5 litres	
8	Ethyle acetate HPLC grade (Merck)	5 litres	
9	Isopropanol HPLC grade (Merck)	5 litres	
10	Thin Layer Chromatography Plates 20x20 cm, glass back. Kieselgel 60, F254, 0.25 and 0.5 mm, respectively)	1 packs of 25 plates	
11	Thin Layer Chromatography Plates 20x20 cm, Aluminium back. Kieselgel 60, F254, 0.25 and 0.5 mm, respectively)	1 pack of 25 plates	
12	Acetonitrile HPLC grade (Merck)	4 litres	

13	Lactophenol	1 packet	
14	Trypan blue	1 packet of 5 grams	
15	Acetone HPLC grade	5 litres	
16	Nutrient agar	2 kgs	
17	Malt Extract (Germany)	1 kgs	
18	Agar agar	2 kgs	
19	Yeast extract	1 kg	
20	Peptone	1 kg	
21	DPPH	3 grams	
22	Petriplates glass (Germany)	100 pairs	
23	Petriplates glass (China)	150 pairs	
24	Separating funnel glass Pyrex (500 ml)	10 units	
25	Conical funnel glass	30 units	
26	EDTA	2 kgs	
27	Filter paper ordinary (9cm diameter)	50 packets	
28	Filter paper ordinary (sheets) China	10 units of 100 sheets each	
29	Methylene blue	25 grams	
30	Sodium hexametaphosphate	1 kg	
31	Ammonium Heptamolybdate	250 g	
32	Ammonium vanadat	250 g	
33	nitric acid	1 L	
34	potaasium dihydrogen phosphate	1 Kg	
35	pumice boiling granules	250 g	
36	p-nitrophenol	50 g	
37	Test tubes	200 units	
38	Measuring Cylinder (5 mL)	10 units	
39	Volumetric flask (5 mL)	10 units	
40	Volumetric flask (10 mL)	10 units	
41	Volumetric flask (20 mL)	10 units	
42	Volumetric flask (50 mL)	10 units	
43	Volumetric flask (100 mL)	10 units	
44	Glass stirrer	20 units	
45	Glass Pipettes	20 units	
46	Aluminium Foil	50 units	
47	Hydrogen peroxide	2 litres	
Total Amount with GST			

4. Department of Chemistry

Sr	Name of item/Specification	Quantity	Total with GST
1	Sodium thio sulphate	1Kg (2 Pack)	
3	potassium iodide	1 kg	
4	Starch indicator	1 kg	
5	Sodium Carbonate	1Kg (2 Pack)	
6	Sodium Bicarbonate	1Kg (2 Pack)	
7	Eriochrom black T indicator	100 gms	
8	Sodium Hydroxide	1Kg (5 Pack)	
9	Potassium Hydroxide	1Kg (2 Pack)	
10	Ammonium hydroxide	2.5 liters (2 Pack)	
11	Magnesium Hydroxide	1Kg (2 Pack)	
14	Potassium di chromate	1 kg	
16	Hydrochloric Acid	2.5 liters (4 Pack)	
17	Sulphuric Acid	2.5 liters (4 Pack)	
18	Nitric Acid	2.5 liters (4 Pack)	
19	Acetic Acid glacial	2.5 liters (2 Pack)	
20	Formic Acid	2.5 liters (2 Pack)	
21	Oxalic acid	1Kg (2 Pack)	
22	Tartaric Acid	1Kg (2 Pack)	
23	Citric Acid	1Kg (2 Pack)	
24	ascorbic acid	1Kg (2 Pack)	
25	Ninhydrin	25 gms	
27	Alpha naphthol	1 kg	
30	copper sulphate	1Kg (2 Pack)	
31	Sodium Sulphate	1Kg (2 Pack)	
33	Cuprous chloride	1 kg	
34	ferric chloride	1Kg (2 Pack)	
36	Diethyl ether	2.5 liters (4 Pack)	
37	Methanol HPLC grade	4 lit (1pack)	
38	Methanol analytical grade	2.5 liters (4 Pack)	
39	Acetone	2.5 liters (2Pack)	
40	chloroform	2.5 liters (4 Pack)	
41	dichloromethane	2.5 liters (2Pack)	
42	isopropanol	2.5 liters (2Pack)	
43	n.Hexane	2.5 liters (2Pack)	
45	Resorcinol	1 kg	
46	Solochrom Black	100 gms	
47	Murexoide	100 gms	
48	potassium nitrate	1 kg	
49	sodium nitride	1 kg	
50	barium sulphate	1 kg	
52	phenolphthalein	100 gms	
53	xylanol	100 gms	

54	bismuth chloride	1 kg	
55	ammonium chloride	1 kg	
56	mercuric chloride	1 kg	
59	zinc powder	1 kg	
60	Potassium dihydrogen phosphate	1 kg	
61	Nickel chloride	1 kg	
62	Cerium nitrate	100 g	
63	Sodium chloride	1 kg	
65	3,4,5-Trimethoxybenzaldehyde	1 kg	
70	Glucose	1 kg	
71	fructose	1 kg	
72	lactose	1 kg	
73	sucrose	1 kg	
74	arabinose	100 gms	
75	galactose	500 gms	
76	acryl amide	500 gms	
77	potassium per sulphate	500 gms	
79	Dopamine Hydrochloride (Sigma/Equivalent)	100 gms	
80	Paraansidine (Sigma/Equivalent)	100 gms	
81	molybdenum chloride	500 gms	
82	Urea	1 Kg (2pack)	
83	phosphoric acid	1 kg	
84	thio urea	1 kg	
87	manganese sulphate	1 kg	
88	ferrous sulphate	1 kg	
90	pH paper	1pack	
94	Aluminium foil	5 units	
95	Glutamic acid	100 gms	
96	cystein	100 gms	
97	proline	100 gms	
98	EDTA	1 kg (2 pack)	
99	Silver iodide	500 gms	
100	8-Hydroxyquinoline	25 gms	
102	Standard calibration solution conductivity meter	1 pack	
103	Neutral Soap	1 packing	
104	methylated spirit	2.5 (2 pack)	
105	Standard calibration solution pH-4	1 pack	
106	Standard calibration solution pH-7	1 pack	
107	Standard calibration solution pH-10	1 pack	
108	Sodium chloride	2 kg	
109	DPPH Radical	5 gms	
110	phthalic anhydride	1 kg	
Total Amount with GST			

Authorized Person

Name: _____

CNIC No. _____

Contact no. _____

Company Name: _____

Signature: _____

Date & Stamp: _____