



**Centre for Advanced Research in Sciences (CARS)
University of Dhaka, Dhaka-1000.**

Ph: 966 1920-59/Ext. 4618

FAX: +880-02-9667222

Email: cars@du.ac.bd

Website : www.cars.du.ac.bd

Office of the Director

Tender Ref. No. CARS/ST/RA/P-302/OTM/2021

Date : ০৮-০৩-১৪২৮ বঙ্গাব্দ
22-06-2021 খ্রিষ্টাব্দ

Invitation for Tender (National)

Sealed Tenders (P-302) are hereby invited from reputed supplier for Supply and Testing of Chemicals, Consumables & Glassware's for different laboratory at the CARS, University of Dhaka

1.	Ministry/Division	Ministry of Education		
2.	Agency	University of Dhaka		
3.	Procuring Entity Name	Centre for Advanced Research in Sciences (CARS), University of Dhaka.		
4.	Procuring Entity Code	302		
5.	Procuring Entity District	Dhaka		
6.	Invitation for	Supply and Testing of Chemicals, Consumables & Glassware's for different laboratory at the CARS, University of Dhaka.		
7.	Invitation Tender Ref No.	CARS/ST/RA/P-302/OTM/2021		
8.	Date :	22-06-2021 খ্রিষ্টাব্দ		
KEY INFORMATION				
9.	Procurement Method	Open Tendering Method		
FUNDING INFORMATION				
10.	Budget and Source of Funds	Revenue Budget (RB) 2020-2021		
11.	Development Partner (if applicable)	N/A		
PARTICULAR INFORMATION				
12.	Project/Programme Code (if applicable)	Not used		
13.	Project/Programme Name (if applicable)	Not Applicable		
14.	Tender Package No.	Lot wise		
15.	Tender Package Name	Supply and Testing of Chemicals, Consumables & Glassware's for different laboratory at the CARS, University of Dhaka.		
16.	Tender Publication Date	22-06-2021 খ্রিষ্টাব্দ		
17.	Tender Last Selling Date	13-07-2021 খ্রিষ্টাব্দ Up to office hours		
18.	Tender Closing Date and Time	Date :		Time:
		14-07-2021 খ্রিষ্টাব্দ		10:30 am
19.	Tender Opening Date and Time	14-07-2021 খ্রিষ্টাব্দ		11:00 am
20.	Name & Address of the Office(s)	Address(s)		
	-Selling Tender Document (Principal)	(i) Centre for Advanced Research in Sciences (CARS), University of Dhaka.		
	-Receiving Tender Document	(i) Centre for Advanced Research in Sciences (CARS), University of Dhaka.		
	-Opening Tender Document	Centre for Advanced Research in Sciences (CARS), University of Dhaka.		
21.	Place/Date/Time of Pre-Tender Meeting	Name/Address	Date:	Time
INFORMATION FOR TENDERER				
22.	Eligibility of Tenderer	(i) Up to date Trade License (ii) Up to date VAT Registration Certificate (iii) Up to date Income Tax Clearance Certificate (iv) Experience Certificate in similar works of comparable value in a single tender in last five years as mentioned in TDS		



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		(v) Bank solvency Certificate (vi) Manufacturer Authorization letter for applicable Equipment (N/A). (vii) Applicant must be owner of the firm or Representative of the firm will be authorized by the owner of the Firm signature with name and seal of the owner viii) Country of origin and made in country will be same. If differ then explain clearly with black and white. (ix) Color catalogue of the Equipment (N/A). (x) The Supplier has to avail an expert maintenance team, list of application training support team and needed submission of team member's list with Bio-data (N/A). (xi) Competency certificate of after sale service as mentioned in the TDS. Availability of Spare- Parts Certainty declaration at least 10 years (N/A). (xii) Warranty : Consumables & Glassware's 24 Months from the date of delivery. Expiry date is needed at least 12 months from the date of delivery for chemicals.		
23.	Brief Description of Goods	Supply and Testing of Chemicals, Consumables & Glassware's.		
24.	Brief Description of Related Services	Supply and Testing of Chemicals, Consumables & Glassware's for different laboratory at the CARS, University of Dhaka.		
25.	Tender Document Price TK.-4,000.00	The Price of Tender Schedule as mentioned is to be deposited in A/C No. 36000392, Janata Bank, T.S.C branch, Dhaka University . Tender schedule and terms and conditions may be collected on submission of the deposit receipt from the above mentioned offices on all working days except on the date fixed for submitting the tender.		
26.	Identification/Name of Goods	Location	Tender Security Amount in Taka	Completion Time
	Chemicals , Consumables and Glassware's	CARS, DU.	Lot-1 : Chemicals 32,500 Lot- 2 : Consumables & Glassware's 23,600	90 days from the date of issuance a Purchase order
PROCURING ENTITY DETAILS				
27.	Name of Official Inviting Tender	Prof. Dr. Md. Abdul Malek		
28.	Designation of Official Inviting Tender	Director		
29.	Address of Official Inviting Tender	Centre for Advanced Research in Sciences (CARS), University of Dhaka.		
30.	Contact details of Official Inviting Tender	9661900/Ext. 4616/ 4636.		
31.	The procuring entity reserves the right to accept or reject any or all tenders without assigning any reason whatsoever. The procuring authority also reserves the right to omit, increase or decrease the quantities of Chemicals , Consumables and Glassware's from the Tender. The suppliers must abide by the decision of the University authority. Tender form, schedule of requirements of supply, tender notice and terms and conditions etc. will form the integral part of the tender. The suppliers should write the name of the item and the name of the firm on the envelope clearly . Vat, Income Tax and other Taxes, if any, imposed by the Govt. will be deducted from their bills as per Govt. rules.			

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Director

Centre for Advanced Research in Sciences (CARS)

University of Dhaka.

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Section 6. Schedule of Requirements

This Section provides the List of Goods and Delivery Schedule and List of Related Services and Completion Schedule and must be carefully prepared by a Procuring Entity for each object of procurement.

Invitation for Tender No :

Date :

Tender Package No :

A. List of Goods & Related services and Delivery Schedule

Item No.	Description of Item	Unit of Measurement	Quantity	Point of Delivery	Delivery Period Required
1	2	3	4	5	6
Lot-1 : Chemicals					

1. Basic Facilities and sample processing

S/N	Name of item	Pk size	Qty
1.1	Ethanol (HPLC Grade)	2.5 L	03
1.2	Methanol (HPLC Grade)	2.5 L	04
1.3	Sodium Hydroxide, NaOH, AR Grade	500 gm	01
1.4	Potassium Hydroxide, KOH, AR Grade	500 gm	01

2. Environmental and Analytical Chemistry Research Laboratory

S/N	Name of item	Pk size	Qty
2.1	Acetonitrile, HPLC Grade	4 L	01
2.2	Acetonitrile	4 L	02
2.3	Methanol, HPLC Grade	4 L	01
2.4	Methanol	4 L	02
2.5	Acetone (HPLC Grade)	2.5 L	02
2.6	Hexane, HPLC Grade	1 L	01
2.7	Chloroform, HPLC Grade	1 L	01
2.8	Iso-Propanol, HPLC Grade	1 L	01
2.9	Tetrahydrofuran (THF), Analytical Grade	500 mL	01
2.10	Silver Nitrate	25 gm	02

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2.11	KBr (FT-IR grade)	100 gm	01
2.12	Sodium Carbonate	500 gm	02
2.13	Potassium Chromate	500 gm	02
2.14	Azithromycin	1 gm	01
2.15	Doxycycline hyclate	1 gm	01
2.16	Ciprofloxacin	100 gm	01

3. Genetic Engineering and Biotechnology Research

S/N	Name of item	Pack size	Qty
3.1	PCR Master mix Green (1.25 x 2)	1.5 mL	03

4. Drug Analysis and Research

S/N	Name of item	Pack size	Qty
4.1	Acetonitrile (HPLC grade)	4 L	04
4.2	Dichloromethane (HPLC grade)	4 L	05
4.3	Ethanol (Reagent grade)	4 L	05
4.4	Iso-propanol (HPLC grade)	2.5 L	05
4.5	Methanol(HPLC grade)	4 L	03
4.6	Lithium aluminum hydride (LiAlH ₄) (Reagent grade)	250 gm	01
4.7	Sodium borohydride (NaBH ₄) (Reagent grade)	500 gm	01

5. Food, Nutrition and Agriculture Research

S/N	Name of item	Pack size	Qty
5.1	Acetonitrile (HPLC grade)	4 L	07
5.2	Benzalkonium chloride	2.5 L	01
5.3	Sodium Hypochlorite	2.5 L	01
5.4	Azithromycin- Supelco, UE (HPLC Standard)	1gm	01
5.5	Bisphenol A 239658	250 gm	01
5.6	Erythromycin A-Supelco, UE (HPLC Standard)	1gm	01
5.7	Trichloroacetic acid	500g	01
5.8	Calcinated calcium	2.5 kg	01
5.9	Microbiological non selective media	500 gm	01
5.10	Microbiological selective media	500 gm	02
5.11	Sodium Chloride (Reagent Grade)	500 gm	01

6. Materials Science Research Laboratory

S/N	Name of item	Pack size	Qty
6.1	Ethyl Alcohol (HPLC Grade)	1 L	01



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6.2	Isopropyl alcohol (HPLC grade)	2.5 L	01
6.3	Titanium (IV) chloride 99%	250 ml	01
6.4	Tin (IV) chloride, 99.99%	250 ml	01
6.5	Glycerol	500 mL	01
6.6	Aluminum nitrate nonhydrate Reagent	500 gm	02
6.7	Carbon Nanotube	1 gm	01
6.8	Graphene oxide paste	25 gm	01
6.9	Silver Conductive	5 gm	01
6.10	Aluminium nitrate nonhydrate Reagent grade ≥98%	500 gm	01
6.11	Zink Chloride, Analytical Grade	300 gm	01
6.12	Zinc nitrate hexahydrate reagent grade, 98%	500 gm	01
6.13	Iron Nitrate	250 gm	01
6.14	KBr (FT-IR grade)	25 gm	01
6.15	Bismuth(III) nitrate pentahydrate, reagent grade ≥98%	500 gm	01
6.16	Chromium(III) nitrate nonahydrate 99%	500 gm	01
6.17	1,3,5-Benzenetricarboxylic Acid >98.0% (T)	100gm	01
6.18	5-Dihydroxyterephthalic Acid >98.0% (T) (HPLC)	5 gm	01
6.19	22-Imidazolecarboxaldehyde 97%	5 gm	01

7. Fermentation and Pilot Plant Research

S/N	Name of item	Pack size	Qty
7.1	Sulfuric Acid (H ₂ SO ₄)	1 L	01
7.2	Glycerol	1 L	01
7.3	Tri-n-butyl phosphate (TBP)	500 ml	01
7.4	Tryptone	500 gm	01
7.5	Ammonium phosphate	500 gm	01
7.6	Agar	500 gm	01
7.7	Ammonium Chloride	500 gm	01
7.8	D-Glucose	500 gm	01
7.9	Yeast Extract	500 gm	01
7.10	Magnesium sulphate	500 gm	01
7.11	Potassium chloride	500 gm	01
7.12	Potassium dichromate (K ₂ Cr ₂ O ₇)	100 gm	01
7.13	Rose Bengal Chloramphenicol Agar	500 gm	01
7.14	Sodium Chloride	500 gm	01

8. Cell and Tissue Culture Research

S/N	Name of item	Pack size	Qty
8.1	Cetrimide Agar	500 gm	01
8.2	KF agar	500 gm	01
8.3	Mannitol Salt Agar	500 gm	01



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8.4	Agar	500 gm	01
8.5	Mueller Hinton Agar	500 gm	01
8.6	m-Endo agar	500 gm	01
8.7	m-FC agar	500 gm	01
8.8	Azithromycin 15	1 strip	01
8.9	Bacitracin 10	1 strip	01
8.10	Ciprofloxacin 5	1 strip	01
8.11	Cefalexin 30	1 strip	01
8.12	Doxycycline 30	1 strip	01
8.13	Erythromycin 15	1 strip	01
8.14	Gentamycin 10	1 strip	01
8.15	PenicillinG 10	1 strip	01
8.16	Polymixin B 300	1 strip	01
8.17	Rifampicin 5	1 strip	01
8.18	Streptomycin 10	1 strip	01
8.19	Vancomycin 30	1 strip	01

9. Air Quality and Environmental Pollution Research

S/N	Name of item	Pack size	Qty
9.1	Concentrated Sulphuric Acid	3.5 L	01
9.2	Concentrated Nitric Acid	3.5 L	01
9.3	Di-methyl sulfoxide (DMSO)	2.5 L	01
9.4	Ethanol	2.5 L	01
9.5	Iso-propyl Alcohol	2.5 L	01
9.6	Molybdenum metal, ETAC31COM003	55 gm	01
9.7	Soda-Lime "CO ₂ Scrubber"	1 kg	01

10. Biological Hazard and Health Research

S/N	Name of item	Pack size	Qty
10.1	Acetic acid	5.0 L	01
10.2	Citric Acid	2.5 L	01
10.3	Ethanol (99.5%)	2.5 L	04
10.4	Hydrogen peroxide	1.0 L	01
10.5	Lactic acid	2.5 L	01



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Lot-2 : Consumables & Glassware's

1. Basic Facilities and sample processing

S/N	Name of item	Pk size	Qty
1.1	Separatory funnel, Capacity: 1 L.	No's	06
1.2	Conical flask, Capacity: 1 L.	No's	06
1.3	Micropipette (100uL ~ 500 uL)	No's	01
1.4	Density Bottle, 50 ml	No's	01

2. Environmental and Analytical Chemistry Research Laboratory

S/N	Name of item	Pk size	Qty
2.1	Nylon Membrane, 0.45micron	50 pcs/pkt	2
2.2	Gloves	100 pcs/pkt	5
2.3	Mask	50 pcs/pkt	5

3. Genetic Engineering and Biotechnology Research

S/N	Name of item	Pack size	Qty
3.1	Monarch® Total RNA Miniprep Kit	50 Prep	01
3.2	Gel extraction kit	100pcs/pkt	01
3.3	Proto Script® II First Strand cDNA Synthesis Kit	30Rxn	01
3.4	PCR Purification Kit	100pcs/pkt	01
3.5	PCR components [Taq polymerase, 500u, 10mM dNTPs, buffer, MgCl ₂]	500 pcs/pkt	01
3.6	Primer (25nm)	1 base	400
3.7	Restriction Enzyme HinfI	5000 unit/vial	01
3.8	Restriction Enzyme MbolI	300 unit/vial	01
3.9	Filtered Nano Tips	96pcs/pkt	20
3.10	Blue Tips	1000Pcs/Pkt	01
3.11	White Tips	1000 pcs/pkt	03
3.12	Yellow Tips	1000 pcs/pkt	02
3.13	1.5ml Micro Centrifuge Tube	500Pcs/Pkt	02
3.14	Color Cartridge laser jet ProM154a	01	01
3.15	Handy UV Light with open box	1	01

4. Drug Analysis and Research

S/N	Name of item	Pack size	Qty
4.1	Silica gel (70-230 mesh, solid)	1 kg	10

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4.2	TLC plates (60 F ₂₅₄ , Aluminium sheets)	25 sheets/box	03
4.3	Glass column (I.D. × L 50 mm × 300 mm)	1	02
4.4	Reaction flasks (Neck size 29-32) with adapters	1	10
4.5	Vacuum Desiccators (230 mm × 197 mm, Glass/PTFE)	1	02

5. Food, Nutrition and Agriculture Research

S/N	Name of item	Pack size	Qty
5.1	HPLC Column Phenomenex, C18, 95Å, 5 µm, 4,6 x 250 mm	1	01
5.2	Nylon-membrane filter paper 47 mm (0.22 µm)	100 pcs/box	01
5.3	Disposable syringe 5 mL	100 pcs/pack	01
5.4	Whatman filter paper 125 mm, cat no. 1001 125	100 pcs/box	01
5.5	Autoclavable test tube rack	1	03
5.6	Swab stick	100pcs/pkt	2
5.7	HPLC vial	100 pcs/pack	02
5.8	Falcon tube (50 ml)	50 pcs/box	01
5.9	Falcon Tube(15 ml)	100 pcs/box	01
5.10	Food packaging materials	72 pcs/ box	01
5.11	Biohazard Bag	50 pcs/pkt	01
5.12	Ziplock Bag (different sizes)	100 pcs/pkt	01
5.13	Storage boxes	70 boxes	01
5.14	Sample Collection Bag (Sterile)	50pcs/pkt	02
5.15	Weighing paper	1 roll	05

6. Materials Science Research Laboratory

S/N	Name of item	Pack size	Qty
6.1	200ul pipette tips	500 pcs/pkt	02
6.2	Appendrof tube (autoclavable)	500 pcs/box	02

7. Fermentation and Pilot Plant Research

S/N	Name of item	Pack size	Qty
7.1	Syringe filter	100 pcs	01
7.2	Microbial loop	5 pcs	01
7.3	1ml Tips	5000 pcs	01
7.4	200ul tips	5000 pcs	01
7.5	Disposable Petri dish (20 ml)	1500 pcs	01
7.6	Eppendorf tube	1000 pcs	01

8. Cell and Tissue Culture Research

S/N	Name of item	Pack size	Qty
8.20	Membrane filter (0.45µm, 47mm dia)	100 pcs/pkt	01



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9. Biological Hazard and Health Research

S/N	Name of item	Pack size	Qty
10.1	FAM-TARMA	18 BASE	1
10.2	FAM-TARMA	21 BASE	1
10.3	FAM-BHQ1	27 BASE	1
10.4	FAM-BHQ1	26 BASE	1
10.5	Oligo primer	36 MBASE	1
10.6	Oligo primer	88 BASE	1
10.7	Samples	TBD	21
10.8	Sample collection bag (sterile)	100/pack.	30
10.9	Storage boxes	box	70
10.10	Tag polymerase (100 U/ml)	1	01
10.11	Template	1	250
10.12	Tips 10 µl with Filter (96 tips box)	96 pcs/box	10
10.13	Tips 0.2-20 µl with Filter (96 tips box)	96 pcs/box	10
10.14	Tips 1.0 mL with Filter	96 pcs/box	10
10.15	Universal master mix (30 U/ml)	250 reaction	01

Warranty : Consumables & Glassware's 24 Months from the date of delivery. Expiry date is needed at least months from the date of delivery for chemicals.

Country of Origin : USA/UK/EU/Japan/Australia/Canada/Singapore/Equivalent

Section 7. Technical Specifications.

The Goods and Related Services shall comply with following Technical Specifications:

Item No	Name of Item or Related Service	Technical Specification and Standards
»	CARS	Supplier



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1. Basic Facilities and sample processing

S/N	Name of item	Pk size	Qty
1.1	Ethanol (HPLC Grade)	2.5 L	03
1.2	Methanol (HPLC Grade)	2.5 L	04
1.3	Sodium Hydroxide, NaOH, AR Grade	500 gm	01
1.4	Potassium Hydroxide, KOH, AR Grade	500 gm	01

2. Environmental and Analytical Chemistry Research Laboratory

S/N	Name of item	Pk size	Qty
2.1	Acetonitrile, HPLC Grade	4 L	01
2.2	Acetonitrile	4 L	02
2.3	Methanol, HPLC Grade	4 L	01
2.4	Methanol	4 L	02
2.5	Acetone (HPLC Grade)	2.5 L	02
2.6	Hexane, HPLC Grade	1 L	01
2.7	Chloroform, HPLC Grade	1 L	01
2.8	Iso-Propanol, HPLC Grade	1 L	01
2.9	Tetrahydrofuran (THF), Analytical Grade	500 mL	01
2.10	Silver Nitrate	25 gm	02
2.11	KBr (FT-IR grade)	100 gm	01
2.12	Sodium Carbonate	500 gm	02
2.13	Potassium Chromate	500 gm	02
2.14	Azithromycin	1 gm	01
2.15	Doxycycline hyclate	1 gm	01
2.16	Ciprofloxacin	100 gm	01

3. Genetic Engineering and Biotechnology Research

S/N	Name of item	Pack size	Qty
3.1	PCR Master mix Green (1.25 x 2)	1.5 mL	03

4. Drug Analysis and Research

S/N	Name of item	Pack size	Qty
4.1	Acetonitrile (HPLC grade)	4 L	04
4.2	Dichloromethane (HPLC grade)	4 L	05
4.3	Ethanol (Reagent grade)	4 L	05
4.4	Iso-propanol (HPLC grade)	2.5 L	05
4.5	Methanol(HPLC grade)	4 L	03

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4.6	Lithium aluminum hydride (LiAlH ₄) (Reagent grade)	250 gm	01
4.7	Sodium borohydride (NaBH ₄) (Reagent grade)	500 gm	01

5. Food, Nutrition and Agriculture Research

S/N	Name of item	Pack size	Qty
5.1	Acetonitrile (HPLC grade)	4 L	07
5.2	Benzalkonium chloride	2.5 L	01
5.3	Sodium Hypochlorite	2.5 L	01
5.4	Azithromycin- Supelco, UE (HPLC Standard)	1gm	01
5.5	Bisphenol A 239658	250 gm	01
5.6	Erythromycin A-Supelco, UE (HPLC Standard)	1gm	01
5.7	Trichloroacetic acid	500g	01
5.8	Calcinated calcium	2.5 kg	01
5.9	Microbiological non selective media	500 gm	01
5.10	Microbiological selective media	500 gm	02
5.11	Sodium Chloride (Reagent Grade)	500 gm	01

6. Materials Science Research Laboratory

S/N	Name of item	Pack size	Qty
6.1	Ethyl Alcohol (HPLC Grade)	1 L	01
6.2	Isopropyl alcohol (HPLC grade)	2.5 L	01
6.3	Titanium (IV) chloride 99%	250 ml	01
6.4	Tin (IV) chloride, 99.99%	250 ml	01
6.5	Glycerol	500 mL	01
6.6	Aluminum nitrate nonhydrate Reagent	500 gm	02
6.7	Carbon Nanotube	1 gm	01
6.8	Graphene oxide paste	25 gm	01
6.9	Silver Conductive	5 gm	01
6.10	Aluminium nitrate nonhydrate Reagent grade ≥98%	500 gm	01
6.11	Zinc Chloride, Analytical Grade	300 gm	01
6.12	Zinc nitrate hexahydrate reagent grade, 98%	500 gm	01
6.13	Iron Nitrate	250 gm	01
6.14	KBr (FT-IR grade)	25 gm	01
6.15	Bismuth(III) nitrate pentahydrate, reagent grade ≥98%	500 gm	01
6.16	Chromium(III) nitrate nonhydrate 99%	500 gm	01
6.17	1,3,5-Benzenetricarboxylic Acid >98.0% (T)	100gm	01
6.18	5-Dihydroxyterephthalic Acid >98.0% (T) (HPLC)	5 gm	01
6.19	22-Imidazolecarboxaldehyde 97%	5 gm	01

7. Fermentation and Pilot Plant Research

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S/N	Name of item	Pack size	Qty
7.1	Sulfuric Acid (H ₂ SO ₄)	1 L	01
7.2	Glycerol	1 L	01
7.3	Tri-n-butyl phosphate (TBP)	500 ml	01
7.4	Tryptone	500 gm	01
7.5	Ammonium phosphate	500 gm	01
7.6	Agar	500 gm	01
7.7	Ammonium Chloride	500 gm	01
7.8	D-Glucose	500 gm	01
7.9	Yeast Extract	500 gm	01
7.10	Magnesium sulphate	500 gm	01
7.11	Potassium chloride	500 gm	01
7.12	Potassium dichromate (K ₂ Cr ₂ O ₇)	100 gm	01
7.13	Rose Bengal Chloramphenicol Agar	500 gm	01
7.14	Sodium Chloride	500 gm	01

8. Cell and Tissue Culture Research

S/N	Name of item	Pack size	Qty
8.1	Cetrimide Agar	500 gm	01
8.2	KF agar	500 gm	01
8.3	Mannitol Salt Agar	500 gm	01
8.4	Agar	500 gm	01
8.5	Mueller Hinton Agar	500 gm	01
8.6	m-Endo agar	500 gm	01
8.7	m-FC agar	500 gm	01
8.8	Azithromycin 15	1 strip	01
8.9	Bacitracin 10	1 strip	01
8.10	Ciprofloxacin 5	1 strip	01
8.11	Cefalexin 30	1 strip	01
8.12	Doxycycline 30	1 strip	01
8.13	Erythromycin 15	1 strip	01
8.14	Gentamycin 10	1 strip	01
8.15	PenicillinG 10	1 strip	01
8.16	Polymixin B 300	1 strip	01
8.17	Rifampicin 5	1 strip	01
8.18	Streptomycin 10	1 strip	01
8.19	Vancomycin 30	1 strip	01

9. Air Quality and Environmental Pollution Research

S/N	Name of item	Pack size	Qty
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9.1	Concentrated Sulphuric Acid	3.5 L	01
9.2	Concentrated Nitric Acid	3.5 L	01
9.3	Di-methyl sulfoxide (DMSO)	2.5 L	01
9.4	Ethanol	2.5 L	01
9.5	Iso-propyl Alcohol	2.5 L	01
9.6	Molybdenum metal, ETAC31COM003	55 gm	01
9.7	Soda-Lime "CO ₂ Scrubber"	1 kg	01

10. Biological Hazard and Health Research

S/N	Name of item	Pack size	Qty
10.1	Acetic acid	5.0 L	01
10.2	Citric Acid	2.5 L	01
10.3	Ethanol (99.5%)	2.5 L	04
10.4	Hydrogen peroxide	1.0 L	01
10.5	Lactic acid	2.5 L	01

Lot-2 : Consumables & Glassware's

1. Basic Facilities and sample processing

S/N	Name of item	Pk size	Qty
1.1	Separatory funnel, Capacity: 1 L.	No's	06
1.2	Conical flask, Capacity: 1 L.	No's	06
1.3	Micropipette (100uL ~ 500 uL)	No's	01
1.4	Density Bottle, 50 ml	No's	01

2. Environmental and Analytical Chemistry Research Laboratory

S/N	Name of item	Pk size	Qty
2.1	Nylon Membrane, 0.45micron	50 pcs/pkt	2
2.2	Gloves	100 pcs/pkt	5
2.3	Mask	50 pcs/pkt	5

3. Genetic Engineering and Biotechnology Research

S/N	Name of item	Pack size	Qty
3.1	Monarch® Total RNA Miniprep Kit	50 Prep	01
3.2	Gel extraction kit	100pcs/pkt	01
3.3	Proto Script® II First Strand cDNA Synthesis Kit	30Rxn	01
3.4	PCR Purification Kit	100pcs/pkt	01

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3.5	PCR components [Taq polymerase, 500u, 10mM dNTPs, buffer, MgCl ₂]	500 pcs/pkt	01
3.6	Primer (25nm)	1 base	400
3.7	Restriction Enzyme Hinfl	5000 unit/vial	01
3.8	Restriction Enzyme MbolI	300 unit/vial	01
3.9	Filtered Nano Tips	96pcs/pkt	20
3.10	Blue Tips	1000Pcs/Pkt	01
3.11	White Tips	1000 pcs/pkt	03
3.12	Yellow Tips	1000 pcs/pkt	02
3.13	1.5ml Micro Centrifuge Tube	500Pcs/Pkt	02
3.14	Color Cartridge laser jet ProM154a	01	01
3.15	Handy UV Light with open box	1	01

4. Drug Analysis and Research

S/N	Name of item	Pack size	Qty
4.1	Silica gel (70-230 mesh, solid)	1 kg	10
4.2	TLC plates (60 F ₂₅₄ , Aluminium sheets)	25 sheets/box	03
4.3	Glass column (I.D. × L 50 mm × 300 mm)	1	02
4.4	Reaction flasks (Neck size 29-32) with adapters	1	10
4.5	Vacuum Desiccators (230 mm × 197 mm, Glass/PTFE)	1	02

5. Food, Nutrition and Agriculture Research

S/N	Name of item	Pack size	Qty
5.1	HPLC Column Phenomenex, C18, 95Å, 5 µm, 4,6 x 250 mm	1	01
5.2	Nylon-membrane filter paper 47 mm (0.22 µm)	100 pcs/box	01
5.3	Disposable syringe 5 mL	100 pcs/pack	01
5.4	Whatman filter paper 125 mm, cat no. 1001 125	100 pcs/box	01
5.5	Autoclavable test tube rack	1	03
5.6	Swab stick	100pcs/pkt	2
5.7	HPLC vial	100 pcs/pack	02
5.8	Falcon tube (50 ml)	50 pcs/box	01
5.9	Falcon Tube(15 ml)	100 pcs/box	01
5.10	Food packaging materials	72 pcs/ box	01
5.11	Biohazard Bag	50 pcs/pkt	01
5.12	Ziplock Bag (different sizes)	100 pcs/pkt	01
5.13	Storage boxes	70 boxes	01
5.14	Sample Collection Bag (Sterile)	50pcs/pkt	02
5.15	Weighing paper	1 roll	05



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6. Materials Science Research Laboratory

S/N	Name of item	Pack size	Qty
6.1	200ul pipette tips	500 pcs/pkt	02
6.2	Appendrof tube (autoclavable)	500 pcs/box	02

7. Fermentation and Pilot Plant Research

S/N	Name of item	Pack size	Qty
7.1	Syringe filter	100 pcs	01
7.2	Microbial loop	5 pcs	01
7.3	1ml Tips	5000 pcs	01
7.4	200ul tips	5000 pcs	01
7.5	Disposable Petri dish (20 ml)	1500 pcs	01
7.6	Eppendorf tube	1000 pcs	01

8. Cell and Tissue Culture Research

S/N	Name of item	Pack size	Qty
8.20	Membrane filter (0.45µm, 47mm dia)	100 pcs/pkt	01

9. Biological Hazard and Health Research

S/N	Name of item	Pack size	Qty
10.1	FAM-TARMA	18 BASE	1
10.2	FAM-TARMA	21 BASE	1
10.3	FAM-BHQ1	27 BASE	1
10.4	FAM-BHQ1	26 BASE	1
10.5	Oligo primer	36 MBASE	1
10.6	Oligo primer	88 BASE	1
10.7	Samples	TBD	21
10.8	Sample collection bag (sterile)	100/pack.	30
10.9	Storage boxes	box	70
10.10	Tag polymerase (100 U/ml)	1	01
10.11	Template	1	250
10.12	Tips 10 µl with Filter (96 tips box)	96 pcs/box	10
10.13	Tips 0.2-20 µl with Filter (96 tips box)	96 pcs/box	10
10.14	Tips 1.0 mL with Filter	96 pcs/box	10
10.15	Universal master mix (30 U/ml)	250 reaction	01

Warranty : Consumables & Glassware's 24 Months from the date of delivery. Expiry date is needed at least months from the date of delivery for chemicals.

Country of Origin : USA/UK/EU/Japan/Australia/Canada/Singapore/Equivalent.