

ପରିବେଶ ବିଜ୍ଞାନ ବିଭାଗ

ଫକୀରମୋହନ ବିଶ୍ୱବିଦ୍ୟାଳୟ

ବ୍ୟାସ ବିହାର, ନୁଆପାଡ଼ି, ବାଲେଶ୍ୱର, ୭୫୬୦୮୯, ଓଡ଼ିଶା

Head of the Department



Dept. of Environmental Science

FAKIR MOHAN UNIVERSITY, BALASORE

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Letter No.: FMU/Dept./Env Sc./2023/-----11

Date: 07.01.2023

Tender Call Notice (for Lab Equipment/Chemicals/Lab Consumables etc.)

Sealed quotations are invited from interested Dealers, Suppliers and Manufacturers with valid GSTIN certificate, PAN card and authorised dealer certificate for supply of **Lab equipment/ Chemicals/ Lab. Consumables (Glassware, plastic ware and miscellaneous items)** to the PG Dept. of Environmental Science, Fakir Mohan University, Balasore. The last date for submission of quotations by Regd./Speed Post is **24.01.2023 by 04:00 PM**. For details, please visit the University web site www.fmuniversity.nic.in.

Prisht
07/01/23

(Head of the Department)

Tender Call Notice (For Lab Equipment/Chemicals/Lab Consumables)

GENERAL TERMS AND CONDITIONS

1. Submission of tender/ bid in Two Bid System

The Bid/ Tender shall be submitted in two-bid system i.e. Technical Bid & Financial Bid. Technical and Financial bid of the quotation should be separately sealed in two envelopes and it must be clearly mentioned on the top of the envelopes as Cover-A (Technical Bid) and Cover-B (Financial Bid). Both the sealed envelopes (A & B) should then be put in one outer cover indicating thereon:

- i) Reference No. of Tender (in Capital letter on the top of the envelope):
- ii) Tender regarding (in Capital letter on the top of the envelope as **Lab equipment/ Chemicals/ Lab. Consumables**):
- iii) Due date for submission of Tender:
- iv) Name and Address of the firm:

The technical bids are to be opened by the Purchase Committee for evaluation. In the second stage, the financial bids of only the technically acceptable offers will be opened for further evaluation, scrutiny and ranking for awarding the Work Order/ Supply Order.

1.1. Technical Bid Should Contain the Following Documents:

- a) The detailed specifications of the equipment along with make and model with respect to the specification specified by the University should be submitted as per the format enclosed in **Annexure I**.
- b) Technical Literature in support of the Lab equipment
- c) Copy of Valid GSTIN Registration Certificate.
- d) Copy of PAN.
- e) Copy of Income Tax Return for last 03 years.
- f) The authorisation certificate of OEM/ authorised Manufacturer/ Distributor/ Dealership Certificate for respective Equipment/Chemical/ Glassware/ or other consumable items.
- g) **EMD @ 2%** of quoted amount **for equipments only** (Annexure – I) in the shape of Bank Draft drawn in favour of **HOD, Environmental Science, F. M. University** payable at Balasore with three-month validity.
- h) **Non-refundable tender fee Rs. 500/-** in shape of Demand Draft in favour of **HOD, Environmental Science, F. M. University** payable at Balasore with three-month validity.

1.2. Financial Bid Should Contain the Following Documents:

- a) Break up price as per format enclosed in **Annexure-II**.
- b) Total Price must include all admissible taxes including transportation charges, delivery and installation charges at the PG Dept. of Environmental Science, F M University, Balasore– 756089, trial operation, comprehensive training and clearance charges. The University will make necessary payment in Indian currency only.
- c) No conditional price will be taken into consideration. No escalation of the price in later stage is acceptable.
- d) Warranty period details should be clearly mentioned
- e) For chemicals, glassware, plastic ware and miscellaneous items the price should be given as per the format given in **Annexure III, IV, V and VI respectively. The bidder must submit the latest and valid pricelist of the respective make or manufacturer along with the quotation.**

2. Goods Eligibility:

ISI, CE, ISO, US FDA/ IEC 60601 or equivalent certificate

3. Other Terms and Conditions:

- i) The cost of the tender is **Rs. 500/- (Non-refundable)**.
- ii) Submission of quotations without tender cost, EMD (For Equipments only, Annexure -III) along with the Technical Bid and received after due date and time will be summarily rejected.
- iii) The quotations completed in all respect should reach to **The Head of the Department, PG Department of Environmental Science, Fakir Mohan University, VysaVihar, Balasore-756089 through Speed/Regd. Post (Indian Postal Service) only** on or before **24.01.2023 by 04:00 PM**. The quotations received after due date or incomplete in any respect shall summarily be rejected. The tender papers will be opened on **25.01.2023 at 11.30 AM** in the Office Chamber of the Registrar, F.M. University, Vyasa Vihar, Nuapadhi, Balasore-756089.
- iv) The supplier must be either manufacturer of the equipment or the authorised agent/ dealer of the manufacturer.
- v) The price should be quoted in the Indian currency only.
- vi) The successful bidders should supply the equipment within a period of 3-4 weeks from the issuing date of purchase order by the competent authority of Fakir Mohan University and shall be delivered to the Person concerned.
- vii) The EMD of the successful bidders will be refunded after the supply and installation of the equipment, on completion of warranty period.
- viii) The EMD of the unsuccessful bidders will be returned to the concerned quotationers immediately after finalisation of the tenders by Regd. Post.
- ix) Documents such as operation manual and other technical specifications of the equipment should be supplied by the successful bidders along with the equipment.
- x) **A warranty certificate for the period of minimum 03 years or as specified in the annexure from the date of installation should be provided. Thus the basic price of all instruments should be quoted along with the warranty period covered.**
- xi) During the warranty period or later whenever the firm is called upon to attend for the rectification of the defects/ faults in the consignments, the firm shall attend to the repair of instrument within 48-96 hours. They should render timely back up service whenever called upon. A certificate to that effect should be attached along with the invoice or delivery challan
- xii) The invoices should be submitted in triplicate in the name of **“The Registrar, Fakir Mohan University, VysaVihar, Balasore-756089”** for pass and payment. The payments will be made only after successful installation/ Training/ Demonstration of instruments supported with a certificate by the concerned PI.
- xiii) The University authority reserves the right to refuse payment in the event of unsuccessful installation and the non-submission of the installation certificates.
- xiv) **The authority of the F.M. University, Balasore reserves the right to accept/ reject any part or all quotations; and also increase or decrease the number of individual items to be procured; or cancel the entire procurement process without assigning any reason thereof.**
- xv) Once the rate is approved by the Purchase Committee and supply order is placed to the successful bidder and in the event of failure on the part of the bidder for supply of the equipment on any account, the authority reserves the right to forfeit the EMD.
- xvi) The rates/ price should be quoted in Indian currency only and payment shall be made in Indian Currency. The price shall be inclusive of all taxes (Rate & Taxes should be mentioned separately), Transportation cost and Cost of Installation and Commissioning, trial operation, comprehensive training and clearance charges.

- xvii) The bid should remain valid for a period of 180 days from the date of opening. In case your offer has a different validity period that should be clearly mentioned in the quotation.
- xviii) The quotationers are required to quote separately for different items of the categories as mentioned below. However, the quotationers have to pay the tender value once, which is non-refundable.
- Equipments (Annexure VII)
 - Chemicals (Annexure VIII)
 - Glassware and Plastic wares (Annexure IX & X)
 - Miscellaneous lab consumables (Annexure XI)
- xix) Dispute, if any, with regard to the tender/ quotation shall be settled within the jurisdiction of Balasore Court, Odisha only.
- xx) Quoting merely the lowest price does not confer any right to any bidder for award of supply order. The University's Purchase Committee, reserves the right to select any bid / equipment under the grounds of specification compliance, technologically advanced quality, proven performance track record, brand reputation, service backup support, additional warranty, offer of additional / special features, Compatibility with the existing System, Training, etc.

P. Mishra
07/01/23

Head of the Department

Head of the Dept
PG Dept. of Environmental Science
F.M. University, Balasore, Odisha

**Annexure I
(For Technical Bid)**

1. Name of the instrument:
 i. Make:
 ii. Model:
 iii) Matching specifications and deviations

Parameters and Specifications Specified by the University	Matching Parameters specified by the Bidders	Remarks if any

iv) Additional features not specified by the University

Annexure – II

(For Financial Bid of Equipments)

Sl. No	Name of the Equipment	Make/Model	Quantity	Price (in Rs.) per unit (Excluding Tax)	Tax per unit (in Rs.)	Total amount per unit (in Rs.)	Total Amount (in Rs.)	Warranty
1								
2								

Annexure – III

(Financial Bid for Chemicals)

Sl. No	Chemicals/Reagents	Pack Size	Make	Cat. No	Actual Price per unit	Quoted Price after Discount	Quoted Price including tax
1.							
2.							

Annexure – IV

(Financial Bid for Glassware)

Sl. no	Glassware items	Make	Capacity/Size	Actual Price per unit	Quoted Price after Discount	Quoted Price including tax
1.		Borosil				

Annexure – V

(Financial Bid for Plastic ware)

Sl. no	Plastic ware item	Make	Capacity/ Size	Actual Price per unit	Quoted Price after Discount	Quoted Price including tax
1.						
2.						

Annexure – VI

(Financial Bid for Miscellaneous Items)

Sl. no	Misc. Item	Actual Price per unit	Quoted Price after Discount	Quoted Price including tax
1.				
2.				

List of Equipment/Instruments**1. PC Based Double beam UV Visible Spectrophotometer**

- i. Optics: Double beam, Grating should be 1200 lines/mm or better
- ii. Source: Deuterium -Tungsten-Halogen lamp (Xenon flash lamp can be considered if required)
- iii. Detector: 2 silicon diode detectors
- iv. Measurable range: 190-1100 nm
- v. Spectral bandwidth: 1 nm or better
- vi. Wavelength Accuracy: ± 0.5 nm or better
- vii. Photometric Accuracy: ± 0.005 Abs at 1.0 Abs or better
- viii. Baseline Flatness: ± 0.001 Abs or better throughout UV-Vis range
- ix. Photometric Stability: < 0.0004 A/h @500 nm
- x. Photometric noise: ≤ 0.0005 Abs or better
- xi. Compatible PC software: Compatible PC software for data analysis should be provided
- xii. Local accessories: 4 sets of 10 mm quartz cuvette to be offered

Other terms and conditions:

- a. Standard comprehensive **warranty and support should be three years** without any additional cost to the purchaser from the date of satisfactory commissioning of the instrument.
- b. Details of Annual Maintenance Contract (AMC) after standard warranty should be quoted.
- c. Pre-installation requirements should be clearly specified in the quotation.
- d. The supplier shall do installation, commissioning and impart training on operation and maintenance of system without any additional cost to the purchaser.
- e. After Sale, Service should be available promptly
- f. Additional features/accessories if any that can potentially increase the productivity and safety of the instrument should be quoted as optional items.
- g. The spare parts/wear & tear consumables, if any, required for trouble free operation of equipment to be quoted separately giving the full nomenclature, rate, quantity and shelf life of each item.

2. Hot air oven

1. Internal chamber size: 60×60×60 cm
2. Construction: Double wall stainless steel (SS 304) with inside mirror finish and with insulation of mineral wool
3. Temperature range: 5°C above ambient to 250 °C
4. Temperature Accuracy: $\pm 2^{\circ}\text{C}$
5. Control: Microprocessor based PID controller with digital display and PT 100 sensor
6. With forced air circulation
7. 3 Stainless steel shelves (Adjustable)
8. Safety features: Over temperature protection, Electric leakage breaker to be provided with Power cord (At least five meters) and plug
9. With NABL/CE Certification

Terms and Conditions:

1. Standard comprehensive warranty and support should be three year without any additional cost to the purchaser from the date of satisfactory commissioning of the instrument.
2. Pre-installation requirements should be clearly specified in the quotation.
3. The supplier shall do installation, commissioning and impart training on operation and maintenance of system without any additional cost to the purchaser.
4. After Sale, Service should be available promptly
5. Additional features/accessories if any that can potentially increase the productivity and safety of the instrument should be quoted as optional items.
6. The spare parts/wear & tear consumables, if any, required for trouble free operation of equipment to be quoted separately giving the full nomenclature, rate, quantity and shelf life of each item.

3. pH meter

1. Automatic microprocessor based with automatic temperature compensation
2. Measuring mode: pH, Milli Volt, Temperature
3. Accuracy- $\pm 0.02\text{pH}$, $\pm 1\text{Digit}$
4. Calibration: minimum 3 point calibration
5. All necessary accessories to make instrument functional

Terms and Conditions:

1. Standard comprehensive warranty and support should be one year without any additional cost to the purchaser from the date of satisfactory commissioning of the instrument.
2. Pre-installation requirements should be clearly specified in the quotation.
3. The supplier shall do installation, commissioning and impart training on operation and maintenance of system without any additional cost to the purchaser.
4. After Sale, Service should be available promptly
5. Additional features/accessories if any that can potentially increase the productivity and safety of the instrument should be quoted as optional items.

4. TDS Conductivity meter

1. Automatic microprocessor based with automatic temperature compensation
2. Measuring mode: TDS, Conductivity, Temperature
3. Conductivity range-0.1 μ S to 200mS
4. TDS range: 0.1 ppm to 200 ppt
5. All necessary accessories to make instrument functional

Terms and Conditions:

1. Standard comprehensive warranty and support should be three year without any additional cost to the purchaser from the date of satisfactory commissioning of the instrument.
2. Pre-installation requirements should be clearly specified in the quotation.
3. The supplier shall do installation, commissioning and impart training on operation and maintenance of system without any additional cost to the purchaser.
4. After Sale, Service should be available promptly
5. Additional features/accessories if any that can potentially increase the productivity and safety of the instrument should be quoted as optional items.
6. The spare parts/wear & tear consumables, if any, required for trouble free operation of equipment to be quoted separately giving the full nomenclature, rate, quantity and shelf life of each item.

5. Analytical electronic Balance

Capacity- 220 g

Readability- 0.01 mg or better

Repeatability (\pm) - 0.001 mg or better

Tare Range – Full

Linearity- +/-0.002

Pan Size (mm) – 90 - 100 mm

Calibration- Automatic Internal

Operating Temperature - 10°C to 40°

Power Supply - AC 220V / 50-60 HZ

ISO/GLP/ GMP/USP compliance

In built RS-232 WITH USB to connect PC.

Terms and Conditions:

1. Standard comprehensive warranty and support should be three year without any additional cost to the purchaser from the date of satisfactory commissioning of the instrument.
2. Pre-installation requirements should be clearly specified in the quotation.
3. The supplier shall do installation, commissioning and impart training on operation and maintenance of system without any additional cost to the purchaser.
4. After Sale, Service should be available promptly
5. Additional features/accessories if any that can potentially increase the productivity and safety of the instrument should be quoted as optional items.
6. The spare parts/wear & tear consumables, if any, required for trouble free operation of equipment to be quoted separately giving the full nomenclature, rate, quantity and shelf life of each item.

6. Heating mantle with Digital Energy Regulator

Flask Capacity-1L

Flask Diameter-135mm

Working Temperature range-Ambient +5°C to 350°C

Display-1Å

Power Consumption-300W

Terms and Conditions:

1. Standard comprehensive warranty and support should be three year without any additional cost to the purchaser from the date of satisfactory commissioning of the instrument.
2. Pre-installation requirements should be clearly specified in the quotation.
3. The supplier shall do installation, commissioning and impart training on operation and maintenance of system without any additional cost to the purchaser.
4. After Sale, Service should be available promptly
5. Additional features/accessories if any that can potentially increase the productivity and safety of the instrument should be quoted as optional items.
6. The spare parts/wear & tear consumables, if any, required for trouble free operation of equipment to be quoted separately giving the full nomenclature, rate, quantity and shelf life of each item.

7. Vortex Mixers

Speed-0 to 2800rpm

Orbital diameter-6mm

Motor type-AC motor

Operation mode-Touch, Stand-by & Continuous mode

Feet-Four suction cups

Time setting & Display-preferable

Power-55W

Current -1Å

Terms and Conditions:

1. Standard comprehensive warranty and support should be three year without any additional cost to the purchaser from the date of satisfactory commissioning of the instrument.
2. Pre-installation requirements should be clearly specified in the quotation.
3. The supplier shall do installation, commissioning and impart training on operation and maintenance of system without any additional cost to the purchaser.
4. After Sale, Service should be available promptly
5. Additional features/accessories if any that can potentially increase the productivity and safety of the instrument should be quoted as optional items.
6. The spare parts/wear & tear consumables, if any, required for trouble free operation of equipment to be quoted separately giving the full nomenclature, rate, quantity and shelf life of each item.

8. Thermometer with Surface Sensor:

Range In Celsius: -50⁰ to + 350⁰C

Reading unit: Celsius and Kelvin

Resolution: 0.1 °C

Operating Temperature: 0 to +40 °C

Storage Temperature: -20 to +70 °C

Power Supply: 3 AAA or 2 AA micro batteries

Display: LCD

Terms and Conditions:

1. Standard comprehensive warranty and support should be three year without any additional cost to the purchaser form the date of satisfactory commissioning of the instrument.
2. Pre-installation requirements should be clearly specified in the quotation.
3. The supplier shall do installation, commissioning and impart training on operation and maintenance of system without any additional cost to the purchaser.
4. After Sale, Service should be available promptly
5. Additional features/accessories if any that can potentially increase the productivity and safety of the instrument should be quoted as optional items.
6. The spare parts/wear & tear consumables, if any, required for trouble free operation of equipment to be quoted separately giving the full nomenclature, rate, quantity and shelf life of each item.

9.Magnetic Stirrer Hot Plate (with Digital Speed Indicator):

Stirring Capacity (ltrs)-500ml

Heating Capacity(Watts)-500

External Dimensions(mm)-200*225*185

Length-13*50mm

Terms and Conditions:

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2. Pre-installation requirements should be clearly specified in the quotation.
3. The supplier shall do installation, commissioning and impart training on operation and maintenance of system without any additional cost to the purchaser.
4. After Sale, Service should be available promptly
5. Additional features/accessories if any that can potentially increase the productivity and safety of the instrument should be quoted as optional items.
6. The spare parts/wear & tear consumables, if any, required for trouble free operation of equipment to be quoted separately giving the full nomenclature, rate, quantity and shelf life of each item.

10. Double Distillation Unit:

Output Capacity:2.5lit/ hour

Type: Vertical or Horizontal, Double distillation, demountable boiler series All quartz, with built in-heater, inbuilt auto-cut off mechanism in overheating.

Distillation Apparatus power supply: 220-240VAC, single phase

Distillate water quality specifications

- a. It should be free from progeny and organic matter
- b. Conductivity <1x10⁻⁶S/cm

c. Total solids <0.1 mg/l

Terms and Conditions:

1. Standard comprehensive warranty and support should be three year without any additional cost to the purchaser form the date of satisfactory commissioning of the instrument.
2. Pre-installation requirements should be clearly specified in the quotation.
3. The supplier shall do installation, commissioning and impart training on operation and maintenance of system without any additional cost to the purchaser.
4. After Sale, Service should be available promptly
5. Additional features/accessories if any that can potentially increase the productivity and safety of the instrument should be quoted as optional items.
6. The spare parts/wear & tear consumables, if any, required for trouble free operation of equipment to be quoted separately giving the full nomenclature, rate, quantity and shelf life of each item.

11. Wall Mounted Distillation Unit

Output: - 10 L per Hour

Wattage: - 4.5kw-6kw

Heater: - Kanthal A1 wire

MOC: -Stainless steel 304

Power supply: -220 Volts 50Hz

Terms and Conditions:

1. Standard comprehensive warranty and support should be three year without any additional cost to the purchaser form the date of satisfactory commissioning of the instrument.
2. Pre-installation requirements should be clearly specified in the quotation.
3. The supplier shall do installation, commissioning and impart training on operation and maintenance of system without any additional cost to the purchaser.
4. After Sale, Service should be available promptly
5. Additional features/accessories if any that can potentially increase the productivity and safety of the instrument should be quoted as optional items.
6. The spare parts/wear & tear consumables, if any, required for trouble free operation of equipment to be quoted separately giving the full nomenclature, rate, quantity and shelf life of each item.

12. Digital Lux Meter

Functions: MAX / MIN, Backlight, Auto Power Off

Range: 0 ~ 200,000 lux 0 ~ 20,000 fc

Accuracy: $\pm 5\%$ rdg + 10 dgt (< 10.000 lux / fc) $\pm 10\%$ rdg + 10 dgt (>10.000 lux / fc)

Resolution: 0.1 lux or 0.1 fc

Selection: lux / fc

Power: 9 V Battery

Display: LCD display

Accessories: Carrying Case, Inst. Manual, 9V Battery (installed)

Terms and Conditions:

1. Standard comprehensive warranty and support should be three year without any additional cost to the purchaser form the date of satisfactory commissioning of the instrument.
2. Pre-installation requirements should be clearly specified in the quotation.
3. The supplier shall do installation, commissioning and impart training on operation and maintenance of system without any additional cost to the purchaser.
4. After Sale, Service should be available promptly

5. Additional features/accessories if any that can potentially increase the productivity and safety of the instrument should be quoted as optional items.
6. The spare parts/wear & tear consumables, if any, required for trouble free operation of equipment to be quoted separately giving the full nomenclature, rate, quantity and shelf life of each item.

13. Inverter-Battery set

Specifications for Inverter:

Make: Luminous/ Excide/Amron

Power: 2000 VA

Warranty: At least 2 year

Specifications for Batteries:

Make: Luminous/ Excide/Amron

Power: 150 Ah, Tubular

Warranty: At least 2 year

Terms and Conditions:

1. Standard comprehensive warranty and support should be as mentioned above without any additional cost to the purchaser from the date of satisfactory commissioning of the instrument.
2. Pre-installation requirements should be clearly specified in the quotation.
3. The supplier shall do installation, commissioning and impart training on operation and maintenance of system without any additional cost to the purchaser.
4. After Sale, Service should be available promptly
5. Additional features/accessories if any that can potentially increase the productivity and safety of the instrument should be quoted as optional items.
6. The spare parts/wear & tear consumables, if any, required for trouble free operation of equipment to be quoted separately giving the full nomenclature, rate, quantity and shelf life of each item.

14. Refrigerator

Make: SAMSUNG/LG/Hair

Refrigerator Type: Double Door, Top Freezer Refrigerator

Defrosting Type: Frost Free

Compressor Type: Inverter Compressor

Capacity: 250L-275 L

Star Rating: 3 and above

Built-in Stabilizer: Preferable

Shelf Material: Toughened Glass

Warranty: At least 1 year comprehensive warranty on product, 10 years on compressor

Warranty Service Type: Door step technician Visit

Terms and Conditions:

1. Standard comprehensive warranty and support should be as mentioned above without any additional cost to the purchaser from the date of satisfactory commissioning of the instrument.
2. Pre-installation requirements should be clearly specified in the quotation.
3. The supplier shall do installation, commissioning and impart training on operation and maintenance of system without any additional cost to the purchaser.
4. After Sale, Service should be available promptly
5. Additional features/accessories if any that can potentially increase the productivity and safety of the instrument should be quoted as optional items.

6. The spare parts/wear & tear consumables, if any, required for trouble free operation of equipment to be quoted separately giving the full nomenclature, rate, quantity and shelf life of each item.

15. Water Softener

Ion Exchange Water Softener to be used for supplying in let water to all quartz/glass distillation units

16. Oxygen Cylinder with Gas

Laboratory grade (Ultra high purity: Minimum Purity 99.994%)

Capacity: 5Liter

17. Flame Photometer

Type: μ C Based

Measuring Elements: Na, K, Li, Ca; all four elements should be measurable in single aspiration

Standard IF filter to be supplied with the instrument: Na, K and Ca

Operating mode: Both high and low concentration measurement modes should be available.

Accuracy: $\pm 2\%$ of FSD, ± 2 Digit

PC link software and PC link port should be available.

Terms and Conditions:

1. Standard comprehensive warranty and support should be three year without any additional cost to the purchaser from the date of satisfactory commissioning of the instrument.
2. Pre-installation requirements should be clearly specified in the quotation.
3. The supplier shall do installation, commissioning and impart training on operation and maintenance of system without any additional cost to the purchaser.
4. After Sale, Service should be available promptly
5. Additional features/accessories if any that can potentially increase the productivity and safety of the instrument should be quoted as optional items.
6. The spare parts/wear & tear consumables, if any, required for trouble free operation of equipment to be quoted separately giving the full nomenclature, rate, quantity and shelf life of each item.

Chemical List

SL. No	Name of the Chemical	Pack Size	Make with Catalogue			
			Merk	SRL	Qualigens	Himedia
1.	1,5 diphenyl carbazide	25 g	1.94979.0026			
2.	5-5'dithio(2-Nitrobenzoic acid)	5 g		3236		
3.	AAPH	5 g		47138		
4.	Acetic acid glacial	2.5L	1.93402.2521	90868	Q21057	AS119
5.	Acetone	2.5lt	1.94500.2521	15168	Q32007	AS025
6.	Acetone GC	500 ml		89140		
7.	Agarose	10 g		36601		MB080
8.	Alfa- glucosidase solution					
9.	Alfa-Naphthol/1-Naphthol	100 g			Q25734	GRM1392
10.	Aluminium chloride	500 g		90015	Q21305	
11.	Ammonium Molybdate	100 g		10299	Q21474	GRM1018
12.	Anhydrous Sodium Sulphate	500 g	1.93635.0521	59977	Q14445	
13.	Anthrone Reagent	100 g		96476		
14.	Aspirin /Acetylsalicylic Acid	100 g				RM7746
15.	Atropine	5 g				GRM7851-5G
16.	Benzene	2.5ltr		16410		16410
17.	Bismuth Subnitrate	100 g				GRM5656-100G
18.	Bromocresol green	125 ml	6.180401252			I002
19.	Bromocresol Green Indicator Powder	125 ml				I002-125ML
20.	BSA	5 g	2905			MB083-5G
21.	Buffer capsules – ph-7.0	1pkt	61769200011730	18533	CP1070	
22.	Buffer capsules -ph 9.2	1pkt	61769300011730	74399	CP1090	
23.	Buffer capsules -ph-4	1 pkt	61769400011730	87767	CP1040	
24.	Butylatedhydroxylatedtolune(BHT)	500 g		38033		GRM797
25.	Calcium fluoride	500 g		57055	Q22215	GRM2693-500G
26.	Calcon Reagent/Calconcarboxylic Acid	5 g		65326		GRM921-5G
27.	Crystal violet	25 g	1.15940.0025		Q39222	GRM961-25G
28.	CTAB-Buffer	100 g	8.14119.0100			TC555U-100G
29.	Dichloromethane (DCM)/Methylene Chloride	2.5 L		24532	Q23077	
30.	Diethyl Ether	2.5 lt	1.00923.2521	25049	Q33707	
31.	Dipotassium Hydrogen Phosphate	500 g	1.93630.0521			GRM1045-500G
32.	Disodium Hydrogen Orthophosphate	500 g	1.93609.0521			TC051-500G
33.	DMSO /Dimethyl Sulphoxide	500 ml	1.16743.0521	28580	Q23125	AS121-500ML

34.	DNS Solution / 3,5-Dinitrosalicylic acid	25 g		38707		GRM1582
35.	EDTA	100 g		40648	Q23254	TC115M-100G
36.	EDTA-Disodium Salt	500 g		12070	Q12635	TC038M-500G
37.	Ethanol/Ethyl Alcohol	1L	EX0276/4			
38.	Ether/Diethyl Ether	500 ml	1.00923.0521		Q32105	AS126-500ML
39.	Ethyl acetate	500 ml	1.94512.0521	66183	Q12645	AS051
40.	Florisil	60-100 mesh for chromatography-250 g		89465		
41.	Formaldehyde	2.5 L	1.94989.5021			AS127
42.	Gallic Acid	500 g		13142		PCT1546
43.	Gibberellic Acid	5 g	8.14464.0005	24367		RM9157-5G
44.	Glacial Acetic Acid	2.5 L	1.00063.2500	90868	Q11007	AS119-2.5L
45.	Glycerol	500 ml	1.94501.0521	42595	Q24505	
46.	Guaiacol	250 ml		53613		RM1118-250G
47.	Hexamethylenetetramine	500 g	1.94923.0521			
48.	Hydrochloric acid(37%)	5 L	1.93401.5021		Q29508	
49.	Hydroxylamine/ Hydroxylammonium hydrochloride	500 g		66164	Q18765	GRM1028
50.	Indomethacin	5 g			TC465	TC465-5G
51.	Iodine		6047600100173			
52.	Iron (III) Chloride	500 g		72655	Q23585	PCT0108
53.	Iron EDTA	500 g				
54.	Isoamyl Alcohol	500 ml	1.94608.0521	69931	Q12305	AS109
55.	Isopropanol	2.5 L		62986		
56.	Lactophenol cotton Blue					S016
57.	EDTA Magnesium Disodium Salt	500 g		41000		
58.	Malt Extract	500 ml		84980	Q25225	RM004
59.	Manganese (II) Chloride Tetrahydrate (MnCl2)	100 g	1.05927.0100			
60.	Manganese Sulphate	500 g	1.93664.0521	12386		TC149M-500G
61.	Mercury (II) Iodide	100 g	1.93678.0121	36881	Q25304	GRM1384-100G
62.	Metacresol Purple Indicator	1 g		31393		GRM143-1G
63.	Methanol	2.5 L	1.94516.2521	37152	Q43607	
64.	Methanol GC Grade	1L	1.00837.1000	79345	Q49506	
65.	Methylene blue Stain	25 g			Q39692	
66.	Molybdic acid	100 g	1.93023.0121	49664	Q25744	
67.	NADPH	100 mg				RM576-100MG

68.	Nalidixic Acid	1 g		20346		CMS213-1G
69.	N-hexane	2.5 l	1.04368.2521	27226	Q13177	
70.	Nile Red	100 mg		47353		RM9734
71.	Ninhydrin reagent	25 g	1.94914.0026	55058	Q15602	
72.	Nutrient Agar	100 g		63971	Q21185	M001
73.	Octanol	500 ml	8.20931.0521	38732		GRM2933-500ML
74.	Ortho-phosphoric acid(85%)	2.5 L	1.93403.2521	36678	Q29907	AS011-2.5L
75.	Peptone	500 g	71280-3CN		Q26325	
76.	Petroleum Ether	500 ml		11778	Q32255	AS063
77.	PNPG Solution (4-Nitrophenyl β -D-glucopyranoside)	500 mg		96226		
78.	Porcine Pancreatic Amylase / α -Amylase	100 g				GRM638
79.	Potassium Ferricyanide	100 g			Q26664	
80.	Potassium hydroxide	500 g	1.93503.0521	84749	Q15705	GRM1015
81.	Potassium Thiocyanate	500 g	1.93608.0521	41027	Q13795	GRM597-500G
82.	Proline	5 g		12047		RM061-5G
83.	Propanol	500 ml	1.00996.0521	62986	Q26925	AS068
84.	Riboflavin	10 g	1.07609.0010	34392		PCT0214
85.	RNase A	100 mg		98915		MB087-100MG
86.	RNO (N,N-dimethyl-4-nitrosoaniline)	25 g	8.20515.0025			
87.	Salicylic Acid		1.94929.0521	42568	Q27235	GRM1476-500G
88.	SDS	500 g	1.94954.0521			TC698
89.	Silica Gel	60-120 mesh for column chromatography	61806205001730	65856	Q27325	
90.	Silver Chloride	25 g	1.19203.0025	80647		GRM1408-25G
91.	Silver Nitrate	25 g	1.93200.0027	32814	Q15802	MB156
92.	Sodium Chloride	500 g	1.93606.0521	41721	Q15915	GRM3954-500G
93.	Sodium Dodecyl Sulphate	500 g	1.94954.0521			GRM205-500gm
94.	Sodium Hydroxide	500 g	1.93502.0521	68151	Q15895	TC460M-500G
95.	Sodium Molybdate	500 g		13547		GRM1721-500G
96.	Sodium Nitrate	500 g	1.93631.0521	44618	Q27855	GRM3958
97.	Sodium Sulphate(Na ₂ So ₄)	500 g		59977	Q14445	GRM1037-500G
98.	Sodium Tartarate	500 g		88738	Q27985	

99.	Sodium Thiosulphate	500 g		89728	Q14455	GRM1420-500G
100.	Stannic Chloride	500 g		30467		
101.	Starch	500 g	1.93317.0521	37547	Q14625	MV107-500G
102.	Sudan Black-B	5 g				GRM260 -5G
103.	Sulfo Salicylic Acid	250 ml	8.00691.0250			
104.	Sulfanilamide	500 g		65404		
105.	Sulphuric acids (98%)	5 L	1.93400.5021		Q29998	
106.	TCA	500 g	1.94971.0521	60677	Q28445	GRM6274
107.	TISAB III(ThermoScientific) with CDTA Buffer	500 ml	1.16770.0500			
108.	Toluene	500 ml	1.08323.0521	47556	Q32505	AS074
109.	TPTZ	1 g		25793		
110.	Yeast Extract	500 g	71279-3CN	89957	Q28605	TC593-500G
111.	Zinc Sulphate monohydrate	500 g				GRM1180-500G
112.	trans-1,2-Diaminocyclohexane-N,N,N,N Tetraacetic Acid Monohydrate extra pure AR (CDTA), 99%	25 g		16368		
113.	Zinc Nitrate	500 g	1.93703.0521	24693	Q28955	
114.	Zinc oxide	500 g		87531	Q28975	

3. List of Glassware (Borosil)

SL No.	Glassware name	Pack size/specification	Cat. no.
1.	Beaker Tong		LATG8888P10
2.	Beakers	50 ml	1000D12
3.	Beakers	150 ml	1000D18
4.	Beakers	250 ml	1000D21
5.	Beakers	500 ml	1000D24
6.	Beakers	1000 ml	1000D29
7.	Conical Flask with Screw cap	100 ml	5021016
8.	Conical Flask with Screw cap	150 ml	5021018
9.	Conical Flask with Screw cap	250 ml	5021021
10.	Conical Flask with Screw cap	500 ml	5021024
11.	Culture Tube	100 ml	9820U10
12.	Desiccator	150 mm	3082042
13.	Flask Tong		LATG8888F10
14.	Glass rod/GLASS STIRRER ROD	7*205 mm 7*305 mm 9 x 305 mm	9850207 9850407 9850409
15.	GLASS L SHAPED SPREADER	6*150	9865683
16.	Measuring cylinder	5 ml	3022005
17.	Measuring cylinder	10 ml	3022006
18.	Measuring cylinder	25 ml	3022009
19.	Measuring cylinder	100 ml	3022016
20.	Microscope Slides	1pkt	9100PO2
21.	Petri dishes	150*20 mm	3165081
22.	Petridishes	90*17 mm	3165075
23.	Reagent Bottles	150 ml	1501018
24.	Reagent Bottles	250 ml	1501021
25.	Reagent Bottles	500 ml	1501024
26.	Spatula (chhattaway)	6inch	LACS8888006
27.	Spatula One end Flat and One end Spoon	4inch	LACS8888004
28.	Spatula One end Flat and One end Spoon	4inch	LACS8888008
29.	Spatulas (chattaway spatula)	6inch	1ACS8888006
30.	Test tube	38 ml	9800U07
31.	Test tube	15 ml	9800U05
32.	Volumetric Flasks	50 ml	5641012
33.	Volumetric Flasks	100 ml	5641016
34.	Volumetric Flasks	200 ml	5641020
35.	Volumetric Flasks	250 ml	5641021
36.	Volumetric Flasks	500 ml	5641024
37.	Volumetric Flasks	1000 ml	5601029
38.	Volumetric Flask	10 ml	5641006
39.	Chromatography Column with Glass Stopcock	200 ml 300 ml	6100060 6100061
40.	Autoclave L-shape spreader	6 x 150	9865683
41.	Micropipette Tip with racks	0.2-10µl, 2-200µl, 200-1000µl	524052 524053 524059
42.	Microscope Slide	76 x 26 x 1	9100PO2

43.	Cover slip	square (22 mm x 22 mm)	
44.	Glass Separatory Funnel	250 ml, 500 ml	6402021 6402024
45.	TLC Plate		
46.	TLC Chamber	200 x 125 x 125 mm	6910M41
47.	Clevenger apparatus	1000 ml	3451029
48.	Flat bottom flask	250 ml 500 ml	4100021 4100024
49.	Test-tube	27 ml	9800U06
50.	Volumetric Pipette	1 ml, 2 ml, 5 ml, 10 ml	710 2001 7102002 710 2005 7102006

4. LIST OF PLASTIC WARE (Tarsons)

	Plasticware	Pack size/specification	
1.	Beakers(pp)	100 ml(12pcs)	421020
2.	Beakers(pp)	250 ml(12pcs.)	421040
3.	Beakers(pp)	500 ml(6pcs)	421050
4.	Beakers(pp)	1000 ml(4pcs)	421050
5.	Measuring cylinder (pp)	10 ml(12pcs)	345010
6.	Measuring cylinder (pp)	25 ml(12pcs)	345020
7.	Measuring cylinder (pp)	50 ml(12pcs)	345030
8.	Measuring cylinder (pp)	100 ml(6pcs)	345040
9.	Measuring cylinder (pp)	250 ml(6pcs)	345050
10.	Measuring cylinder (pp)	500 ml(6pcs)	345060
11.	Micropipette (Lab quest, Borosil)	10-100UL 20-200ul, 100ul-1000ul, 0.5ml-5ml	LHC37112020 LHC37112024 LHC37112029 LHC37112033
12.	Narrow mouth wash bottle (LDPE)	500 ml(6pcs)	560070
13.	Petridishes	125 mm(12pcs)	462040
14.	Spare stopcock for aspirator bottle	1pc.	583211
15.	Test tube stand 20mm 20 places	1pkt(4pcs)	202030
16.	Test tube stand 32mm 12 places	1pkt(4pcs)	202050
17.	Utility tray(pp)	6pcs per pack	240090
18.	Wide mouth bottle (pp)	125 ml(72pcs.)	585220
19.	Wide mouth bottle(pp)	250 ml(72pcs.)	585230
20.	Centrifuge Tube	50 ml with Cap	500041
21.	Magnetic Bar	8*22mm	4141
22.	Propipetter (Pipette bulb Controllable)	5Pcs	034000
23.	Carboy with stopcock	50L	584400
24.	Wide mouth bottle with Handle	5L	683210
25.	Micropipette tip box	0.2-10 μ l, 2-200 μ l, 200-1000 μ l	524051 524050 524080
26.	Syringe Filter	25 mm	521090
27.	15ml conical bottom tube (Autoclave)	15 sterile	546021
28.	Pipette Bulb		034000
29.	Micro centrifuge tube	0.5ml, 1.5ml, 2.0ml	500000C 500010C 500020C
30.	Petri dish with triple vent Radiation Sterile	90*14 mm (Individual packing)	460091

Miscellaneous

SL No.	Item name	Pack size		
1.	Gloves (Nitrile, Latex)-Both Medium and Large Size)			
2.	Apron			
3.	Non-absorbant cotton			
4.	Capillary tube			
5.	Aluminium foil			
6.	Rough filter paper			
7.	Whatman filter paper no.4			
8.	Test tube brush			
9.	Butter paper			
10.	Mortar-pestal, [Glass Mortar-Pestal-12cm diameter]			
11.	Absorbant cotton			
12.	Liquid detergent (Phosphate Free)			
13.	Tissue roll			
14.	Forceps			
15.	Charcoal blocks			
16.	GC-Glass Vials Screw Cap			
17.	Glass Vial Septum (PTFE)			
18.	Teflon Tape			
19.	Glass Syringe			
20.	Non adhesive cotton			
21.	Lab Cotton wash cloth			
22.	Syringe Filter (0.45micrometer) Nylon Membrane			
23.	Slide			
24.	Coverslip			
25.	Immersion Oil			
26.	Turbidity Tube			
27.	Sample Bag with Zip lock	9*13		
28.	Parafilm	4*125		
29.	Volumetric flask wash brush			