



Indian Institute of Science (IISc)
Bangalore – 560012
(www.iisc.ac.in)

NOTICE INVITING TENDER

under the two-cover bid system

for

**Supply of High School Science Experimental Kits for Chemistry and Biology
IISc, Challakare campus, Khudapura 577536**

Tender No: IISc/CHAL/KIT 2/2022

Date: 4th January 2022

Contact Details for this tender:

The Convener

HAL-IISc Talent Development Center Office

Indian Institute of Science

Bangalore – 560012

Tel : 080- 2293 2498

Email: office.cec@iisc.ac.in

Indian Institute of Science, Bangalore

Tender Inviting Authority: The Registrar, Indian Institute of Science, Bangalore -560012

Title of the Tender: Supply of High School Science Experimental Kits

(Chemistry and Biology) for IISc Challakere campus, Khudapura

577536

Tender Ref. No.: IISc/CHAL/KIT 2/2021, Date: 4th January 2022

IISc, Challakere is interested in purchasing Science Experimental Kits for its Challakere Kudapura Campus. The required technical details including terms and conditions are provided below. Please send us technical and commercial quotes in separate sealed envelopes addressed to The Convener, Office of HAL-IISc Talent Development Center, Indian Institute of Science, Bangalore-560012, by **5 pm on 31st January, 2022**

A. Item Details and its Technical specifications:

The item must consist of the following details (Complete technical details and quantity):

1. Supply of High School Science Experimental Kits (Biology and Chemistry) as per enclosed specifications.
2. The financial bids must be given in separately sealed covers for the above item respectively.

B. Eligibility Criteria and Terms & Conditions:

1. Please refer to GOI notification on make in India No. P-45021/2017-PP (BE-II), Government of India, Ministry of Commerce and Industry, Department for Promotion of Industry and internal Trade, (Public Procurement Section) Dated: 16th September 2020. The bidder has to comply with those rules.
2. Payment terms after the Satisfactory supply of kits.
3. The vendor chosen as L1 should be able to supply 30 kits to IISc Challakere Campus and 15 kits to Orissa Government High Schools.
4. Place of delivery of bid : The Convener, Office of HAL-IISc Talent Development Center, Challakere Campus, Khudapura.

5. The bid should be submitted in the two-cover system, i.e., technical bid and commercial bid separately in sealed covers. The technical bid should contain all Technical requirement except the price. The bids should be valid for at least 90 days from the last date of submission of the quotation.
6. The bidder must be either Indian OEM (Original Equipment Manufacturer) or its authorized Indian distributor /dealer/manufacturer of the make mentioned in the tender document and for which they are quoting. Valid certificates must be attached.
7. The bidder must have valid GSTIN. Valid certificate must be attached.
8. The bidder shall have minimum turnover of **Rs. 30 Lakhs/per annum** during the last 05 financial years (2016-17 to 2020-21). The vendor must attach last 05 years balance sheet along with CA certificate.
9. Vendor must quote for all line-items.
10. IISc will have absolute right to modify / cancel this tender and accept / reject any bid.
11. Late submission of bids is not permitted.
12. Successful bidder will be decided based on overall (grand total of all items taken together) Lowest (L-1) of Price Bid of technically qualified bids.
13. The vendor should have an office and warehouse in Bangalore.
14. The lead time for the delivery of the kits should not be more than ONE month from the date of receipt of our purchase order. It should be clearly mentioned in the technical and commercial bids.
15. All the quotations must be valid for at least 90 days from the last date of tender submission.
16. List of customers and references: The Bidder should have supplied similar items in Central Universities preferably in centrally Funded Technical Institutes (IITs, IISc, IISER, NIT). Please provide all the details (eg: PO Supplied to such institution) and contact information (name, email, mobile numbers).
17. The Bidder must not be blacklisted/banned/suspended or have a record of any service-related dispute with any organization in India or elsewhere. A declaration to this effect should be provided.
18. Items in addition to that listed in the technical table that you would like to bring to our attention, such as data sheets, technical details etc. can be listed at the end of the compliance table.

19. Vendors are encouraged to highlight the advantage of their products over comparable products from the competitors.
20. The quoted cost must include packing, freight, loading, unloading, and on FOR- IISc Bangalore basis.
21. The Vendor who is capable of supplying all the above mention items (Chemistry & Biology) will be technically qualified.

Item Details and Technical Specification

For Chemistry Kit

SL No.	Items	Quantity	Specifications	Yes/No	Remarks
01.	Copper Sulfate - 20 g	1 No	LR Grade		
02.	Mg ribbon - 25 g	1 Box	AR Grade		
03.	Zn Granules - 20 g	1 No	LR Grade		
04.	Al foil - 10 g	1 No			
05.	NaOH - 20 g	1 No	LR Grade		
06.	NaCl - 50 g	1 No	LR Grade		
07.	Na ₂ SO ₄ - 20 g	1 No	LR Grade		
08.	Na ₂ CO ₃ - 20 g	1 No	LR Grade		
09.	NaHCO ₃ - 20 g	1 No	LR Grade		
10.	BaCl ₂ - 20 g	1 No	LR Grade		
11.	Barium hydroxide - 20 g	1 No	LR Grade		
12.	Ammonium chloride, 20 g	1 No	LR Grade		
13.	Marble chips - 20 g	1 No	LR Grade		
14.	CaO - 20 g	1 No	LR Grade		
15.	Ca(OH) ₂ - 20 g	1 No	LR Grade		
16.	Cu turnings - 20 g	1 No	LR Grade		
17.	KMnO ₄ - 20 g	1 No	LR Grade		
18.	K ₂ Cr ₂ O ₇ - 20 g	1 No	LR Grade		
19.	KI - 20 g	1 No	LR Grade		
20.	KBr - 20 g	1 No	LR Grade		
21.	Phenol red - 5 g	1 No	LR Grade		
22.	Zn powder - 20 g	1 No	LR Grade		
23.	Fe powder - 20 g	1 No	LR Grade		
24.	Mg powder - 20 g	1 No	LR Grade		
25.	Sodium thiosulphate -20 g,	1 No	LR Grade		
26.	Red phosphorous - 20 g	1 No	LR Grade		
27.	Sulfur powder - 20 g	1 No	LR Grade		
28.	Sodium metal - 20 g	1 No	LR Grade		

29.	Acetic acid – 50 ml	1 No	LR Grade		
30.	Ethanol – 500 ml	1 No	LR Grade		
31.	Universal Indicator–100 ml	1 No	LR Grade		
32.	pH paper (1-14)	1 No	10 books per box		
33.	Blue Litmus paper	1 No	10 books per box		
34.	Red Litmus paper	1 No	10 books per box		
35.	Iodine – 20 g	1 No	LR Grade		
36.	Cyclohexane – 50 ml	1 No	LR Grade		
37.	Cyclohexene – 50 ml	1 No	LR Grade		
38.	Benzene – 50 ml	1 No	LR Grade		
39.	Tongs	2 Nos	Material: steel, 6 inch		
40.	Test tube holder	3 Nos	Material: wooden handle		
41.	China dish	3 Nos	Material = ceramic, diameter = 100 mm		
42.	Tripod stand	2 Nos	Material = iron, height = 6 inch		
43.	Wire gauze	3 Nos	Material = iron, size 4x 4 inches		
44.	Pasteur pipettes	25 Nos	Material: Plastic, Volume = 3 ml		
45.	Ceramic crucible	3 Nos	Material = ceramic, diameter = 50 mm		
46.	Wash bottle	3 Nos	Material: Plastic, Volume = 250 ml		
47.	Test tube stand	1 No	Material: Plastic, 20 place for 13 ml test tubes		
48.	Tissue paper roll	2 Nos			
49.	Rubber bulb (for droppers/pipettes)	5 Nos			
50.	Spirit lamp	2 Nos	Material: Steel		
51.	25 ml beaker	10 Nos	Material: glass, Standard		
52.	50 ml beaker	10 Nos	Material: glass, Standard		
53.	100 ml beaker	6 Nos	Material: glass, Standard		
54.	150 ml beaker	3 Nos	Material: glass, Standard		
55.	250 ml beaker- 3 Nos		Material: glass, Standard		
56.	Measuring cylinder; 50 ml	2 Nos	Material: glass, Standard		
57.	Measuring cylinder; 100 ml	2 Nos	Material: glass, Standard		

58.	Separating funnel; 60 ml	1 No	Material: glass, Standard		
59.	Round bottom flask; 50 ml	2 Nos	Material: glass, 14/23 joint		
60.	Distillation condenser	1 No	Material: glass, 14/23 joint		
61.	Test tubes	20 Nos	Material: glass, Volume = 13 ml Size = 15x125mm		
62.	Big test tube	5 Nos	Material: glass, Volume = 55 ml Size = 25x150mm		
63.	250 ml reagent bottle-	3 Nos	Material: glass, transparent		
64.	Right angle Adapter (plain)	3 Nos	Material: glass, 14/23 joint		
65.	Glass dropper	3 Nos	Material: glass, Volume = 5 ml		
66.	Volumetric pipette	2 Nos	Material: glass, Volume = 10 ml		
67.	Funnel	3 Nos	Material: glass, 4 inch diameter		
68.	Watch glass	5 Nos	Material: glass, diameter = 100mm		
69.	Glass rod	2 Nos	Material: glass, length = 8 inch		

Biology Kits

01.	Biological Specimen Permanent Slides	1 Box.	Material: Glass. Size: 75mm x 25mm x 1.3mm See Annexure- 1 for the list of slides		
02.	Blotter Paper	10 sheets	Size: 60 cm x 45 cm.		
03.	Single Cavity Slide	1 Box	Size: 75mm x 25mm x 1.3mm, (10 Nos /Box)		
04.	Cotton Roll	1 No	Type: Absorbent, 500g		
05.	Micro Cover Glass 22mm Square	1 No	Size: 22mm X 22mm X 0.13mm, (12Pks/Box)		
06.	Dropper	20 Nos	Material: Plastic, Size: 1 ml		
07.	Forceps 6 Inch	2 blunt end and 2-pointed end	Material: Steel.		
08.	Frosted Micro Slide:	2 No	Size: 75mm x 25mm x 1.3mm, (50 Nos /Box)		
09.	Inoculation Loop with Handle:	2 Nos	Material: Nichrome, Diameter: 3 mm		
10.	Inoculation Needle with Handle:	2 Nos	Material: Nichrome, length: 6 cm		

11.	Sterile Blood Lancet	200Nos	Sterile and individual packed		
12.	L-Shaped Rod	2 Nos	Material Plastic, Autoclavable, Size: 14cm x 3,5 cm x 3mm.		
13.	Microscope (Binocular)	1 No	Viewing Head: Binocular 45° Rotatable 360°. Eyepiece: 10x Wide Field Objective: Anti-Fungal Achromatic Objective 4x, 10x, 40x and 100x. Nosepiece: Quadruple; Mechanical Stage: Coaxial Double Layer Mechanical Stage. Focusing Range: Coaxial Coarse and Fine Adjustment. Light Source: Led with Battery Backup and Brightness Adjustable. 1 year warranty.		
14.	Needles with plastic handle	10 Nos	Steel, needle length 3 cm,		
15.	Pestle And Mortar	2 Nos	Material: Ceramic, Diameter= 3 inch,		
16.	Petri Plates	12 Nos	Size= 100 mm, Autoclavable		
17.	Pressure Cooker	1 No	Material: Stainless steel, 10 Lts,		
18.	Laboratory Spatula	5 Nos	Material: Plastic, Size: 6 inch.		
19.	Watch Glass	2 Nos	Material: Glass, Size: 100mm diameter.		
20.	Brush	5 Nos	Size: No1, fine.		
21.	Razor stainless steel Blades	1 No	Material stainless steel: 10 Nos in a pack		
22.	Surgical Mask	5 Nos	Disposable, Size: medium.		
23.	Gloves	5 Pairs	Nitrile gloves, medium size		
24.	Tooth Picks	2 Boxes	Wooden, 100 Nos per box		
25.	Vaseline (20 g)	1 No			

26.	Reagent Bottles plastic	3 white and 3 ambers	Material: Plastic, Size = 125 ml		
27.	Sprit Lamp.	1 No	Material: Steel		
28.	Test Tubes	(10 Nos) with test tube Stand and test tube Holder	Material: Glass, Test tube size: (15x125) and volume 13ml. Plastic stand.		
29.	Acetocaramine 100ml	1 No	LR Grade		
30.	Benedicts Solution 125 ml	1 no	LR Grade		
31.	Blood Grouping Kit.	1 No	Anti-A+B+D (Rho) monoclonal (10 ml each)		
32.	Biuret Reagent- 125ml	1 No	LR Grade		
33.	Lactophenol Cotton Blue Solution 125ml.	1 No	LR Grade		
34.	Gram's Crystal Violet Solution 100 ml	1 No	LR Grade		
35.	Gram's Iodine 100 ml	1 No	LR Grade		
36.	Dextrose -50g	1 No	LR Grade		
37.	Lysis Buffer for DNA Extraction -100ml	1 No	10mM Tris-HCl at pH 8.0, 5mM EDTA and 0.5 % SDS)		
38.	Ethanol-500ml,	1 No	LR Grade		
39.	Giemsa Stain Solution 125ml	1 No	LR Grade		
40.	Hydrogen Peroxide (6%) 100 ml	1 No	Medical Grade		
41.	Molisch's Reagent 125ml,	1 No	LR Grade		
42.	Nessler's Reagent 125ml,	1 No	LR Grade		
43.	Nigrosin or Indian Ink Reagent 100m	1 No	LR Grade		
44.	Nutrient Agar-25g	1 No	LR Grade		
45.	Peptone-25g	1 No	LR Grade		
46.	Phenol: Chloroform: Isoamyl Alcohol (25:24:1) 100ml.	1 No	LR Grade		
47.	Potato Dextrose Agar- 25g,	1 No	LR Grade		
48.	KOH 25g	, 1 No	LR Grade		
49.	Safranin Solution 125ml	1 No	LR Grade		

50.	3 Molar Sodium Acetate Solution 50ml	1 No	LR Grade		
51.	Sodium Citrate 25g	1 No	LR Grade		
52.	Sucrose 50g	1 No	LR Grade		
53.	Starch 25g	1 No	LR Grade		
54.	Fixative Solution for Onion Root Tips 50ml	1 No	1:3 ratio of Acetic acid and Ethanol		
55.	Sterile Cotton Swabs	25 Nos	Individual packing on wooden stick, 150mm length		
56.	Baker's Yeast Granules 25g	1 No			
57.	Balloons	20 Nos			

#Annexure 1

Biological Specimen Permanent Slides (7.5 cm x 2.5 cm, 1.33 mm thickness)

1.	Differential WBC	26.	Fungi Penicillium
2.	Cheek Cells	27.	Fungi Rhizopus
3.	Stomata-Closed and Open view	28.	Fungi Aspergillus
4.	Dicot-Cross section of Leaf,	29.	Plasmodium (multiple fission)
5.	Dicot -Stem	30.	Hydra-Budding
6.	Dicot-root	31.	Yeast budding
7.	Monocot-Cross section of Leaf,	32.	Mitosis -Meiosis-All stages
8.	Monocot-stem	33.	Bacteria Gram+Ve and Negative
9.	Monocot-root	34.	Lactobacillus
10.	Cork cells	35.	Tissue Parenchyma
11.	Algae Volvox	36.	Tissue Collenchyma
12.	Algae Chlamydomonas	37.	Tissue Sclerenchyma
13.	Ulothrix	38.	Aerenchyma Tissue
14.	Squamous epithelium	39.	Xylem Tissue
15.	Glandular Epithelium	40.	Phloem Tissue
16.	Columnar epithelium	41.	chlorenchyma tissue
17.	Ciliated epithelial	42.	Diatoms
18.	Nerve cell (neuron)	43.	Anabaena
19.	Planaria (flat worm)	44.	Onion Cells
20.	Cyanobacteria (Blue green Algae)	45.	Nostoc
21.	Euglena	46.	Sperms
22.	Amoeba	47.	Cross section of testis (Mouse)
23.	Spirogyra	48.	Cross section of ovary (Mouse)
24.	RBC		
25.	Paramecium, ,		

Other requirements (as appropriate):

1.	Two-layer stand for keeping chemicals
2.	All the chemical and reagents should be packed in screw capped leak proof plastic bottles and clearly labelled. Air and moisture sensitive materials should be appropriately packed.
3.	Kit should be packed in transportable condition with individual items' pictures and names.
4.	The cost of shipping to IISc should be included.
5.	One kit should be produced for approval.
6.	The payment terms will be specified in the commercial proposal which should be consistent with IISc's domestic purchase policies.

Important Dates: -

Date of publication of tender	4 th January 2022
Last Date of pre-bid query to be sent by email only to: office.cec@iisc.ac.in	12 th January 2022 by 5 pm
Pre-bid meeting (Online)	18 th January 2022 (time will be intimated to vendors who request for a pre-bid meeting)
Last date & time of submission of bids	31 st January 2022 by 5:00 PM
Opening of Technical Bids	2 nd February at 11 am
Opening of Price Bids (Price Bids will be opened of only those bidders, whose technical bids will be declared qualified by the Technical Committee of IISc for the procurement. Decision of the Committee will be final and binding.)	This date will be intimated to the technically qualified vendors, after scrutinizing the technical bids

Note: IISc will have absolute right to change the date / time.

Contact Details for this tender:

The Convener
Office of HAL-IISc Talent Development Center
Indian Institute of Science
Bangalore - 560012
Tel : 080- 2293 2498
Email: office.cec@iisc.ac.in

Technical Bid

Techno-Commercial Compliance Sheet - 1

Sl. No.	Eligibility Criteria	Fulfil this criterion (Yes / No)	Details and Proof Attached on page no.
1.	The bidder must be either Indian OEM (Original Equipment Manufacturer) or its authorized Indian distributor/dealer of the make mentioned in the tender document and for which they are quoting. Valid certificates must be attached as per the OM		
2.	The bidder must have valid GSTIN. Valid certificates must be attached.		
3.	The bidder shall have minimum turnover of Rs. 30 Lakhs/per annum in any three years during the last 5 financial years (2016-17 to 2020-21). The CA certificate to be attached.		
4.	Minimum Warranty of Two Years		
5.	List of customers and references: The Bidder should have supplied similar items in Central Universities preferably in centrally Funded Technical Institutes (IITs, IISc, IISER, NIT). Please provide all the details (Eg: Po supplied to such institution) and contact Information.		
6.	The Bidder must not be blacklisted/banned/suspended or have a record of any service- related dispute with any organization in India or elsewhere. A declaration to this effect should be provided.		
7.	Items in addition to that listed in the technical table that you would like to bring to our attention, such as data sheets, technical details etc. can be listed at the end of the compliance table.		

Technical Bid (BOQ)

Techno-Commercial Compliance Sheet – 2

Details of Make / Model /quoted (Only can be quoted by one vendor): -

Sl. no.	Item	Unit	Qty.	Make / Model) (only one model should be clearly mentioned here)
1.	Supply of High School Science Experimental Kits for Chemistry and Biology as per enclosed specs.	Nos.		

INDIAN INSTITUTE OF SCIENCE,
BANGALORE

PRICE BID

(to be submitted by the bidder in separate sealed cover superscribed as
Price Bid)

Name, GSTIN & Address of the Bidder:

Name of work: Supply of for IISc Challakere kudapura campus.								
Sl no.	Item of work	Unit	Qty. "A"	Basic rate per unit (in INR) "B"	GST Rate in 5 % "C"	Total rate Per Unit with GST (in INR) "D"	Total amount (INR) A * D	Make / Model (only one model should be clearly mentioned here)
1	Supply of High School Science Experimental Kits Chemistry and Biology as per enclosed specs	Nos.						
Grand Total Amount in Figures in INR (Rs.)								
Grand Total Amount in words in INR (Rs.)								

Note: 1. The quoted cost must include packing, freight, loading, unloading, and on FOR-IISc Bangalore basis.

2. All pages must be properly sealed (stamped) and signed by the bidder with name & date.
