



COMSATS University Islamabad (CUI), Lahore Campus
Defence Road, Off Raiwind Road, Lahore

Tender No. CUI-LHR-TN-13-19-1320

Case # 2940

Single Stage One Envelop Procedure

Title of Tender: **Chemicals for Establishment of Centre for Advanced Technologies in Biomedical Materials (Knowledge Economy Initiative)**

TERMS AND CONDITIONS

- 1. All pages of bidding documents are mandatory to be signed / stamped, meaning thereby bidder agrees to our terms & conditions mentioned herein, failing which the bid may be rejected.*
- 2. Any addition, deletion or modification of any clause of the procurement terms & conditions/BoQs of CUI, Lahore Campus by any vendor will not be acceptable and may lead to rejection of the bid.*
- 3. Only registered Suppliers, who are on Active Taxpayers List (ATL) of FBR, are eligible to participate in tender.*
4. The contract will be executed and handed over in satisfactory conditions up to the entire satisfaction of COMSATS University Islamabad, Lahore Campus.
5. Documents along with Pay Order / Demand Draft amounting to **Rs. 1000/-** as a tender document fee (Non-Refundable) shall be submitted in favor of COMSATS University Islamabad, Lahore Campus to the address given below. No bid will be accepted without tender documents' fee.
6. Part / Advance payments is not allowed.
- 7. The exact completion/delivery time from the date of the purchase / work order will be 90 days. The handing over / completion time for this contract is of critical importance.**
8. Your bid proposal should be inclusive of freight and all other taxes and to be delivered at CUI, Lahore Campus's premises.
9. After opening of bids, CUI, Lahore Campus will examine the bids for completeness as per tender document.
10. Purchase order (s) will be awarded to the lowest or technically recommended bidder (s) on the basis of item wise / subtotal wise / grand total wise according to the nature of BoQs.
11. The bid should be submitted in a sealed envelope up to **January 13, 2020** on or before **1400hrs** and will be opened on the same date **at 1430hrs** in the presence of available bidders.
12. The envelope should be marked as under;

Secretary, Purchase Committee
COMSATS University Islamabad, Lahore Campus
Defence Road, Off Raiwind Road, Lahore.
Tel: 042-111-001-007, Ext: 875

The envelope shall also bear the word “**CONFIDENTIAL**” and following identification quotation of **“Chemicals for Establishment of Centre for Advanced Technologies in Biomedical Materials (Knowledge Economy Initiative)”**.

13. The bid form (BoQs) must be duly filled in, stamped and signed by the authorized representative of the bidder.
14. **If the vendor fails to deliver the goods / services to COMSATS University Islamabad (CUI), Lahore Campus within the given deadline, any of the following can be opted by CUI Lahore campus on the recommendation of the end user and approval of the authority;**
 - a. An extension in the delivery period may be granted in case a valid reason/justification with necessary documentary evidence is provided by the vendor supporting the reason for delay.
 - b. A penalty upto 10% of the invoice value may be charged.
 - c. Purchase order may be cancelled along with confiscation of earnest money if the vendor fails to deliver the goods / services after the initial or extended delivery time, as the case may be.
15. If the delivered goods / services are not according to the required quality standards / specifications, the same shall be liable to be rejected after inspection. The vendor would be required to supply as per requirements mentioned in our BoQs, otherwise the purchase / work order will be cancelled after due date with confiscation of earnest money.
16. Deduction of Income Tax and any other tax will be deducted at source according to Government prevailing rules.
17. Payment will be made on submission of Invoice in the name of “COMSATS University Islamabad, Lahore Campus” with a copy of delivery challan (s) after the complete order has been supplied, inspected and accepted which includes delivery / installation, and COMSATS acceptance / inspection thereof.
18. All prices should be quoted on **F.O.R (Pak Rupees) inclusive of all taxes.**
19. All prices should be valid for at least **120 days.** Withdrawal or any modification of the original offer within the validity period shall entitle CUI-Lahore Campus to forfeit the earnest money in favor of the CUI-Lahore Campus and / or put a ban on such vendor participation in CUI tenders / works.
20. It is the sole responsibility of the agent / supplier / manufacturer to comply with the applicable laws, be national or international.
21. In case of any dispute or grievance, the matter shall be addressed as per PPRA rules.
22. The CUI-Lahore Campus reserves the right to modify the quantities of goods / services at any time before the award of purchase / work order.
23. **The bidder is required to furnish in form of Bank deposit/ CDR/ Pay order equivalent to 2% of the total Bid price as Earnest Money crossed in favor of “COMSATS University Islamabad, Lahore Campus”.**
24. COMSATS University Islamabad, Lahore Campus reserves the rights to reject the bid if;
 - i. Received without earnest money
 - ii. Received later than the date and time fixed for tender submission
 - iii. The tender is unsigned/ unstamped
 - iv. The offer is ambiguous
 - v. The offer is conditional
 - vi. The offer is from a firm, which is black listed by any Govt. Office.
 - vii. The offer is received by telephone/telex/fax/telegram.
 - viii. Any unsigned / ambiguous erasing, cutting / overwriting etc. is made.

25. The bidder should furnish a certificate as worded below in token of acceptance of all the terms and conditions of the tender otherwise the tender will not be considered under any circumstances.
26. The undersigned affirm that the terms and conditions as contained in this document have been read and accepted and that in the event of selection of my/our rate the agreement in the prescribed form will be entered into:

- **Company / Vendor Name:**.....
- **Postal Address:**.....
- **Tel. / Mobile:**.....**Email:**.....
- **NTN# :**.....**GST#:**.....
- **Signature:**
- Please also attach the Certificate supporting being Active Taxpayer as per requirement of FBR.

BoQs of Chemicals for Establishment of Centre for Advanced Technologies in Biomedical Materials (Knowledge Economy Initiative)

<p>Vendors are required to provide both unit and total price of each item and calculations must be made carefully to avoid mistakes. However, in case, total price does not match with the unit price and quantity due to calculation error or typo error, any of the following can be opted:</p> <ol style="list-style-type: none"> 1. The bid may be rejected on the reason of ambiguity (OR) 2. Unit price will be considered as final and total price of the respective item will be calculated by multiplying it with the quantity required. Sub-totals and grand total will also be corrected accordingly 						
<p>No change in the BoQs (Specs & Qty.) of CUI-Lahore Campus, as detailed below, is allowed. Any additional information may be mentioned in the blank columns (i.e. model / brand or Price). Any modification in CUI-Lahore Campus BoQ may lead to rejection of bid (fully or partially).</p>				<p>Prices to be quoted inclusive of all applicable taxes</p>		
Sr. #	Item Name	Specifications	Qty	Quoted Model / Brand /Make	Unit Price (Rs.)	Total Price (Rs.)
1.	Katamine	induce loss of consciousness	100ml			
2.	Xylazine	used for sedation, anesthesia, muscle relaxation, and analgesia in animals	50ml			
3.	Ethanol	Absolute	25 liters			
4.	pyodine	broad spectrum antiseptic for treatment and prevention of wound infection	1 liter			

5.	Formalin	used as an aniceptic and disinfectant	10 Litters			
6.	Methanol	HPLC Graded	25 liters			
7.	Paraformaldehyde	High quality	10 liters			
8.	Xylene	used clearing agent	25 liters			
9.	Formic Acid	Used as preservative for animal feed in winters	10 liters			
10.	Alatrofloxacin (Antibiotic)	used to treat bacterial conjunctivitis (pinkeye; infection of the membrane that covers the outside of the eyeballs and the inside of the eyelids) 50-200°C Injections:	100 ml			
11.	Amikacin (Antibiotic)	used to treat certain serious infections Injections:	100 ml			
12.	Amphotericin B (Anti-fungal)	antifungal medication used for serious fungal infections Syrup:	500ml			
		antifungal medication used for serious fungal infections Injections:	100 ml			
13.	Ampicillin (Antibiotic)	To treat a wide variety of bacterial infections Syrup:	500ml			
		To treat a wide variety of bacterial infections Injections:	100 ml			

14.	Cefazolin (Antibiotic)	For the treatment of a number of bacterial infections. Specifically it is used to treat cellulitis, urinary tract infections, pneumonia, endocarditis, joint infection, and biliary tract infections. Syrup:	500ml			
		For the treatment of a number of bacterial infections. Specifically it is used to treat cellulitis, urinary tract infections, pneumonia, endocarditis, joint infection, and biliary tract infections. Injections:	100 ml			
15.	Ceftazidime (Antibiotic)	use to treat wide variety of bacterial infections Syrup:	500ml			
		use to treat wide variety of bacterial infections Injections:	100 ml			
16.	Ceftiofur (Antibiotic)	used in the treatment of respiratory infections Syrup:	500ml			
		used in the treatment of respiratory infections Injections:	100 ml			
17.	Surface Disinfectant	used in hospitals, dental surgeries, kitchens, and bathrooms to kill infectious organisms	2 liters			
18.	Skin Cleanser & Pre-Surgery Soap	Help prevent surgical site infections	5 liters			
19.	Instant Hand Antiseptic	Contains moisturizers to help improve hand hygiene compliance	5 liters			

20.	Wall Mounted air freshener Dispenser	Adjustable to wall, automatic dispenser, high quality	2 dispensers			
21.	Ibuprofen (anti-inflammatory)	Medication in the nonsteroidal anti-inflammatory drug class that is used for treating pain, fever, and inflammation Syrup:	500ml			
		Medication in the nonsteroidal anti-inflammatory drug class that is used for treating pain, fever, and inflammation Injections: ()	100 ml			
22.	Hydromorphone (analgesics)	Relieves moderate to severe pain 0.1-0.2 mg/kg Syrup:	500ml			
		Relieves moderate to severe pain 0.1-0.2 mg/kg Injections:	100 ml			
23.	Tramadol (analgesics)	To treat moderate or chronic pain in rabbits Syrup:	500ml			
		To treat moderate or chronic pain in rabbits Injections:	100 ml			
24.	Gabapentin (Neurontin) (analgesics)	To control pain in rabbits suffering from arthritis Syrup:	500ml			
		To control pain in rabbits suffering from arthritis Injections:	100 ml			
25.	Doxycycline (analgesics)	antibiotic, also used to treat lyme disease Syrup:	500ml			
		antibiotic, also used to treat lyme disease Injections:	100 ml			
26.	Dexamethasone	Anti-inflammatory steroid Injections: 01 ml each	10 Nos.			

27.	Hydroxyzine	antihistamine drugs used primary for treatment of allergies Syrup:	500ml			
		antihistamine drugs used primary for treatment of allergies Injections:	100 ml			
28.	Pyrantel	Effective against asarids, hookworms and stomach worms	Syrup: 500ml			
			Injections: (100 ml)			
29.	Yohimbine	used to reverse effect of xylazine ,also called an antidote to xylazine Syrup:	500ml			
		used to reverse effect of xylazine ,also called an antidote to xylazine Injections:	100 ml			
30.	Tylosin	Used to treat bacterial infections in farm animals, but veterinarians often use it to treat certain types of chronic diarrhea. Syrup:	500ml			
		Used to treat bacterial infections in farm animals, but veterinarians often use it to treat certain types of chronic diarrhea. injections:	100 ml			
31.	Parafin Wax	Highly quality for tissue embedding	5 Kg			
32.	Cetylpyridinium chloride	Powdered form, high quality	10 grams			
33.	RNA isoplus reagents	High quality (250ml each)	2 bottles			

34.	Taq polymerase	High fidelity	1 ml			
35.	BCA Protein Assay Kit	High quality	1 kit			
36.	Rhodamine Phalloidin	High quality	0.1ml			
37.	Alexa fluor 488 phalloidin	High quality	0.1ml			
38.	Protease inhibitor cocktail tablets	Cocktail, High quality	1 kit			
39.	DNA purification kit	High quality	1 kit			
40.	RNA extraction kit	High quality	1 kit			
41.	Calcium Assay Kit	To quantify the amount of calcium	1 kit			
42.	ALP staining reagents	Staining reagent	1 kit			
43.	Mounting Medium for Fluorescence with DAPI	High quality	0.2ml			
44.	Bovine serum albumin	Powdered form, high quality	500 grams			
45.	Alexa fluor 488 anti-rabbit IgG secondary antibody	High quality	0.1ml			
46.	Sybre green reagents	For Quantitative real-time PCR analysis, High quality	20 ml			
47.	cDNA synthesis kits	High quality	5 kits			

48.	10x Tris Buffered Saline	For Western blot application	5 liters			
49.	10x Tris/Glycine Buffer	For Western blot application	5 liters			
50.	Tween-20	High quality, For Biological purposes	1 liters			
51.	2x protein Sample Buffer	Premixed protein sample buffer for SDS-PAGE	30 ml			
52.	Protein blotting standard (marker)	Pre-stained, Strep-tagged recombinant proteins (10–250 kD), including three color bands (25, 50, 75 kD)	250 µl			
53.	Starter kit for hand casting 10% TGX Stain-Free polyacrylamide gels, includes acrylamide solutions and buffers	For western blot analysis	2 bottles			
54.	Protein assay kit	High quality protein assay kit to detect total concentration of protein	01 Kit			
55.	Sodium Hydroxide	1310-73-2 or equivalent	1kg			
56.	Potassium Hydroxide	1310-58-3 or equivalent	1 kg			
57.	Hydrochloric acid (HCL)	7647-01 or equivalent	2.5 L			
58.	Ethanol (absolute)	64-17-5 or equivalent	100 L			

59.	Acetic Acid	64-19-7 or equivalent	2.5 L			
60.	Chitosan (Low Molecular weight)	448869 or equivalent	100 g			
61.	Chitosan (Medium Molecular weight)	448877 or equivalent	100 g			
62.	Chitosan (High Molecular weight)	419419 or equivalent	100 g			
63.	Poly(vinyl alcohol) (PVA, 60 K)	81381 or equivalent	1 kg			
64.	Polycaprolactone (80K)	24980-41-4 or equivalent	500 g			
65.	Alpha Tocopherol Acetate	7695-91-2 or equivalent	1 kg			
66.	Homosalate	118-56-9 or equivalent	25 g			
67.	Stearic Acid	57-11-4 or equivalent	25 g			
68.	Octocrylene	6197-30-4 or equivalent	25 g			
69.	Ascorbic Acid	50-81-7 or equivalent	500 g			
70.	Jjoba oil	61789-91-1 or equivalent	100 ml			
71.	Caprylyl Glycol	1117-86-8 or equivalent	1 Kg			
72.	Bleach	7681-52-9 or equivalent	3 L			

73.	PBS tablets	3002 invitrogen or equivalent (100 tablets containing in one bottle)	1 bottle			
74.	Paraformaldehyde	30525-89-4 or equivalent	1 Kg			
75.	Formic acid	64-18-6 or equivalent	1 L			
76.	glutaraldehyde	111-30-8 or equivalent	1L			
77.	Fetal Bovine Serum	lyophilized powder, Sterile-filtered, suitable for cell culture, suitable for hybridoma heat inactivated 500ml each	5 Nos.			
78.	Sodium alginate	9005-38-3 or equivalent	2kg			
79.	Trypsin	7/7/9002 or equivalent	500 ml			
80.	Sodium dodecyl sulphate	151-21-3 or equivalent	500 g			
81.	2- deoxy-D ribose	533-67-5 or equivalent	3 g			
82.	Endotoxin testing kit	ET0200 or equivalent	1 unit			
83.	Calcium per oxide	466271 or equivalent	250g			
84.	Formalin (10%, Neutral Buffered, Wintergreen Scented)	50-00-0 or equivalent	2.5 litre			
85.	Gelatin (pH 3.8 - 7.6 (10 g/l)	9000-70-8 or equivalent	500gm			

86.	VEGF antibody	05-116 or equivalent	100ug			
87.	Trizol	136426-54-5 or equivalent	100ml			
88.	Trion X-100 (x 9-10)	9002-93-1 or equivalent	500ml			
89.	Xanthan gum	11138-66-2 or equivalent	100 g			
90.	Magnesium gluconate	3632-91-5 or equivalent	100 g			
91.	α -Cellulose	9004-34-6 or equivalent	500g			
92.	Liquid paraffin	8012-95-1 or equivalent	1 L			
93.	Propodium Iodide	25535-16-4 or equivalent	20mg			
94.	Thiazolyl Blue Tetrazolium Bromide (MTT, >97%)	298-93-1 or equivalent	1g			
95.	Butyl Paraben	94-26-8 or equivalent	25 g			
96.	Ethyl paraben	120-47-8 or equivalent	25g			
97.	Cetyl alcohol	36653-82-4 or equivalent	25 g			
98.	Methyl paraben	99-76-3 or equivalent	25 g			
99.	Cetearyl alcohol	112-92-5 or equivalent	5 g			
100.	Behenyl alcohol	661-19-8 or equivalent	50 g			
101.	Ethylhexyl salicylate	118-60-5 or equivalent	1 kg			

102.	Tween 20	9005-64-5 or equivalent	500 g			
103.	Phenylmethane sulfonylfluoride	329-98-6 or equivalent	5g			
104.	Gentian violet (crystal violet)	548-62-9 or equivalent	25 g			
105.	Bees wax	Alfa A17673.0B or equivalent	500g			
106.	White soft paraffin	8002-74-2 or equivalent	1kg			
107.	Sodium carboxymethyl cellulose Mw ~90,000	9004-32-4 or equivalent	1 kg			
108.	DMSO	67-68-5 or equivalent	2.5 L			
109.	Ascorbic acid	50-81-7 or equivalent	500 g			
110.	Ammonium persulphate	105843-51-4 or equivalent	1 kg			
111.	glycerine	56-81-5 or equivalent	2.5 L			
112.	Hydrogen peroxide	7722-84-1 or equivalent	1L			
113.	Sodium dodecyl sulphate	151-21-3 or equivalent	500g			
114.	Propylene glycol	57-55-6 or equivalent	1 L			
115.	Ferric chloride	7705-08-0 or equivalent	1kg			
116.	Chloroform	67-66-3 or equivalent	2.5L			

117.	Collagen type1	9007-34-5 or equivalent	100mg			
118.	Bial's reagent	470300-378 or equivalent	100 ml			
119.	Glyceryl stearate	287100-84-9 or equivalent	100 mg			
120.	Cetyl palmitate	540-10-3 or equivalent	1 g			
121.	Disodium EDTA	6381-92-6 or equivalent	250 g			
122.	2-Phenoxyethanol	122-99-6 or equivalent	1 L			
123.	Capric triglyceride	73398-61-5 or equivalent	2 g			
124.	Cetearyl isononoate	67762-27-0 or equivalent	1 Kg			
125.	Hydrocaffeic acid	1078-61-1 or equivalent	25g			
126.	Lactobionic acid	96-82-2 or equivalent	25g			
127.	Osmium tetroxide	20816-12-0 or equivalent	250 g			
128.	Calcein	154071-48-4 or equivalent	5 g			
129.	Hematoxylin	517-28-2 or equivalent	25 g			
130.	Eosin	15086-94-9 or equivalent	5 g			
131.	Nile red	7385-67-3 or equivalent	100 mg			
132.	DRAQ 5 nuclei dye	62251 or equivalent	1 mL			
133.	Acryloyl chloride	814-68-6 or equivalent	500 mL			

134.	Acrylic acid	79-10-7 or equivalent	1 L			
135.	Coumarin-6	38215-36-0 or equivalent	1 g			
136.	Thionyl chloride	230464 or equivalent	100 mL			
137.	Ammonium peroxydisulphate	7727-54-0 or equivalent	1 kg			
138.	3,4-Ethylene dioxy thiophene	900181 or equivalent	100 g			
139.	Tetrabutyle ammonium hexafluoro Phosphate	86874 or equivalent	25 g			
140.	MoS2 flakes	901479 or equivalent	3 units			
141.	4,4',4'',4'''-(Porphine-5,10,15,20-tetrayl)tetrakis (benzoic acid)	14609-54-2 or equivalent	3 g			
142.	Silk cocoons	--	2 kg			
143.	CaCl2	10043-52-4 or equivalent	5 kg			
144.	LiBr	7550-35-8 or equivalent	5 kg			
145.	polyethylene oxide 600000 MW	25322-68-3 or equivalent	1 kg			
146.	KOH	1310-58-3 or equivalent	2 kg			
147.	Graphene oxide (4mg/mL suspension)	777676 or equivalent	200 mL			
148.	NaOH	1310-73-2 or equivalent	2 kg			
149.	D-Pantothenic acid (Vit. B5)	867-81-2 or equivalent	500g			
150.	Tetrahydrofuran	109-99-9 or equivalent	5 L			

151.	Chloroform	67-66-3 or equivalent	5L			
152.	Dulbecco's modified Eagle's medium		5 L			
153.	Fetal Bovine Serum	9014-81-7 or equivalent	500 mL			
154.	Trypsin EDTA with phenol red	7/7/9002 or equivalent	500mL			
155.	Pencillin Streptomycin Solution	3810-74-0 or equivalent	100 mL			
156.	Eosin Hematoxylin	548-24-3 or equivalent	50 g			
157.	Glycerol	56-81-5 or equivalent	2 L			
158.	Phosphate buffered saline (Ph 7.4)	2139900 (100 tablets containing in one pack)	15 pack			
159.	Trypan Blue	72-57-1 or equivalent	50 g			
160.	Reagent grade Alcohol	64-17-5 or equivalent	10 L			
161.	Linolenic acid(Omega 3)	463-40-1 or equivalent	5 g			
162.	Polylactic acid	26100-51-6 or equivalent	100 g			
163.	Hexachloro isopropanol (HFIP)	920-66-1 or equivalent	250 g			
164.	hexachlorocyclo triphosphazene (HCCP)	940-71-6 or equivalent	200 g			
165.	Polycaprolacton (80k)	24980-41-4 or equivalent	1kg			
166.	polyethyleneglycol	25322-68-3 or equivalent	1 kg			
167.	Sodium alginate	9005-38-3 or equivalent	1 kg			
168.	AlCl ₃ anhydrous	7446-70-0 or equivalent	1 kg			

169.	Aniline	62-53-3 or equivalent	500 mL			
170.	Pyrole	109-97-7 or equivalent	500 mL			
171.	Silver nitrate	7761-88-8 or equivalent	1 kg			
172.	4-Diethylaminobenzaldehyde	120-21-8 or equivalent	500 g			
173.	Sod Selenite Pentahydrate	26970-82-1 or equivalent	1 kg			
174.	Polyethylene Glycol-Block	11/6/9003 or equivalent	500 mL			
175.	Camphorquinone	10373-78-1 or equivalent	50 g			
176.	Polyethylene Glycol Diacrylate	26570-48-9 or equivalent	500 mL			
177.	Tetraethyl orthosilicate	78-10-4 or equivalent	1L			
178.	Coleine Hydroxide Solution (46%)	123-41-1 or equivalent	500 mL			
179.	Trimethylolpropane ethoxylate triacrylate	28961-43-5 or equivalent	500 mL			
180.	Triethylene Glycol Dimethacrylate	109-16-0 or equivalent	500 mL			
181.	Hyaluronic acid	9067-32-7 or equivalent	10 g			
182.	Poly(D,L-lactide-co-glycolide), mol wt 30,000-60,000	26780-50-7 or equivalent	20 g			
183.	Starch soluble	9005-84-9 or equivalent	2 kg			
184.	2-Hydroxyethyl starch	68512-26-5 or equivalent	500 G			

185.	Maltodextrin (dextrose equivalent (13.0-17.0))	9050-36-6 or equivalent	500 G			
186.	Cellulose propionate average Mw ~130,000	9004-48-2 or equivalent	500 g			
187.	Cellulose acetate Mn ~30,000	9004-35-7 or equivalent	1 kg			
188.	Chitin from shrimp shells practical grade, powder	1398-61-4 or equivalent	300g			

Bid Evaluation Criteria

All bids shall be evaluated in accordance with the following evaluation criteria and other terms & conditions set forth in this bidding document.

- The bids shall be evaluated to strictly ensure that the quoted brand/ model meet all the BoQ/ specification requirements given in the tender document for each item.
- In addition to the BoQ requirements, vendors must meet the vendor qualification criteria /company profile requirements (if any), as set forth in this tender document.
- Supporting literature of the quoted model must be attached for verification & technical evaluation of the required specification by the technical committee. In case of any clash is found between the quoted model and the supported literature may lead to rejection of bid.
- **The vendor must have an authorized dealer certificate of the quoted Product/Item (Certificate with current year's validity) of Original Manufacturer for Chemicals which shall be also verifiable from the Principal / Manufacture Website or through email must be attached with bid otherwise such item/bid may be rejected.**

Special Terms and conditions;

- Please submit bid (rates) on our prescribed BoQs Form and clearly mention the quoted model / brands, with complete terms and conditions signed, stamped with bids, otherwise your bid (s) may be rejected.
- Purchase / work order (s) will be awarded on **Item Wise Basis** as mentioned in BoQs.
- Multiple rates of an item may also lead to the rejection of bid / item.**