

INVITATION FOR QUOTATION

HSCC/PUR/KCGMC/Low Value/Medical College Items/2017/MC-Pharmacology Dated: 13th Sept, 2017

To,

All Bidders

Subject: Invitation for Quotations for supply of Low Value Items for below mentioned dept.
Dept. of Pharmacology for *Kalpana Chawla* Medical College, Karnal, Haryana.

Dear Sirs,

1. Director General, Medical Education & Research, Panchkula, Govt. of Haryana through its Consultant HSCC (India) Ltd. invites most competitive quotation for the following goods of the respective Departments as detailed below:

Annexure - (Including name of items, Specification and Quantity)

(I) Dept. of Pharmacology

2. Quotation:

- 2.1 The contract shall be for the full quantity as described above.
- 2.2 Corrections, if any, shall be made by crossing out, initialling, dating and rewriting.
- 2.3 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- 2.4 The unit price/ rate of the item should be clearly indicated in the tender. Rates /Prices quoted shall be Inclusive of all taxes, duties, forwarding, and insurance & transportation up to the destination, Kalpana Chawla Medical College – Karnal. Annexure-A is enclosed for price bid quotation format.

3. Each bidder shall submit only one quotation.

4. Evaluation of Quotations:

The Purchaser shall evaluate and compare the quotations determined to be substantially responsive i.e. which;

- 4.1 are properly signed; and
- 4.2 confirm to the terms and conditions, and specifications.
- 4.3 final considerations of equipments shall be based on the quality of equipments during demonstration / inspection.

5. The Quotations would be evaluated item wise.

6. Award of contract:

- 6.1 The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest rate for the item subject to quality of the items during demonstration / inspection.
- 6.2 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and cancel the bidding process and reject all quotations at any time prior to the issue of Purchase Order, without assigning any reason.

7. Delivery period shall be within **07** days from date of placement of order.

8. Payment shall be made only in Indian Rupees as follows:

Satisfactory Acceptance and delivery - 100% of total cost

100% Payment on submission of following documents (Duly signed & stamped at your end):-

- Copy of Purchase order.
- Consignee Acceptance Certificate in original issued by KCGMC/HSCC
- Invoice in favour of consignee/Director, KCGMC, Karnal through HSCC (I) Ltd
- Warranty Certificate in original.

9. All supplied items shall be under warranty of **12** months from the date of delivery/successful acceptance.

10. You are requested to provide your offer as follows:

Sr. No.	DESCRIPTION	Closing date & time for submission & receipt of tender	Date and time of Opening of Techno – Commercial Tenders
I.	Department of Pharmacology	20 th September 2017 at 14:00	20 th September 2017 at 14:30

NOTE: (Under any unforeseen circumstances if the due date for submission of Tender is declared as holiday then the tender shall be submitted & opened on the next working day at the scheduled time).

The quotations will be opened in HSCC office, NOIDA as mentioned above in the presence of tenderer or their authorised representative as they may choose to attend.

11. Information brochures/ Product catalogue, if any, must be accompanied with the quotation clearly indicating the model quoted for.
12. Sealed quotation to be submitted/ delivered at the address mentioned below:

**General Manager (Procurement)
HSCC (India) Ltd.
E- 6 (A), Sector -1.
NOIDA – 201 301.**

THE COVER SHOULD BE SUPERSCRIBED WITH THE FOLLOWING:

Reference to letter of enquiry.
Due date of opening.
Serial No of the Items with Department.

13. Quoted amount should be in Indian Rupees only.
14. For all items, the Technical Evaluation Committee may opt for Demonstration of the items. The Committee may also ask for Demonstration / Inspection before supply / delivery of the items for quality assurance.
15. Insurance shall be arranged/borne by supplier.

Note: Please indicate the quotation reference no. (Given at the top of page 1 of this letter) and
Serial No of the Items on the top of the envelope.

The details of various medical equipment shall be also made available at www.hsccltd.co.in, and modification/amendments etc, if any, shall only be notified on website only.

We look forward to receiving your quotation and thank you for your interest in this project.

General Manager (Procurement)

CLINICAL PHARMACOLOGY (MODELS)

Models to illustrate the pharmacodynamic and pharmacokinetic properties of drugs, adverse drug reactions, drug administration techniques		
Sr.no	Name of Model	Qty
1.	ANTIMICROBIAL DRUG ACTION ON DIFFERENT SITES OF BACTERIAL CELL	1
2.	TYROSINE KINASE RECEPTOR	1
3.	GABAA RECEPTOR	1
4.	ADVERSE EFFECTS OF CORTICOSTEROIDS PCM	1
5.	SITE OF DRUG ACTION IN GLAUCOMA	1
6.	DRUG SIDE EFFECTS	1
7.	HYPERTENSION	1
8.	DIABETES MELLITUS (Sulfonylureas, Biguanides)	1
9.	ANTIDIARRHEAL DRUGS & THEIR ADVERSE EFFECTS	1
10.	CORTICOSTEROIDS ACTION IN BRONCHIAL ASTHMA & ADVERSE EFFECTS	1
11.	HIV INFECTIONS, NRTIS & NON-NRTIs	1
12.	NEUROHUMORAL TRANSMISSION OF ACETYLCHOLINE	1
13.	ANTIBACTERIAL DRUGS ACTION AT RIBOSOMES	1
14.	PAIN PATHWAYS	1

Experimental Pharmacology & Clinical Pharmacology (Charts/Photographs)

(Thick Laminated & Framed on NU-Wood board)

Sr. no	Name of Chart	Qty
1.	To study the muscle relaxant property of diazepam in mice using rota-rod apparatus	1
2.	To study the analgesic effect of morphine in mice using the tail-flick method	1
3.	To study the analgesic effect of morphine in mice using hot plate method	1
4.	To study the analgesic effect of morphine against acetic acid-induced writhing in mice	1
5.	To study the anticonvulsant activity of phenytoin against maximal electro-shock-induced convulsions in rats	1
6.	To study the anticonvulsant property of diazepam against pentylenetetrazol-induced clonic convulsions in mice	1
7.	To study the antidepressant activity of imipramine using forced swim test	1
8.	To study the anti-inflammatory property of indomethacin against carrageenan-induced acute paw oedema in rats	1
9.	To study the anti-histaminic activity of cetirizine against histamine-induced lethality in guinea pigs	1
10.	To study the mydriatic effect of topically applied atropine on rabbit eye	1
11.	Adverse Drug Reactions	1
12.	Photographs of Different Adverse Drug Reactions with description	10 sets

Clinical Pharmacology (Videos)

Sr. no	Items	Qty
1.	Pharmacodynamic Properties of Drugs,	1
2.	Pharmacokinetic Properties of Drugs,	1
3.	Adverse Drug Reactions	1
4.	Drug Administration Techniques	1

Clinical Pharmacology (Instruments)

Sr.no	Stop watch jacquets	<ul style="list-style-type: none"> Steel body 	10
1.	Digital Sphygmomanometer	<ul style="list-style-type: none"> One touch Operation Large Display Screen Blood pressure level indicator Memory for last reading and simultaneous display of systolic, diastolic and pulse rate Average of last 3 reading Irregular heartbeat detection Body movement detection 	10
2.	Critical Flicker Fusion Apparatus (Assessment of the central-nervous activation (arousal) with the help of threshold values, when high frequency light is recognized as constant light. To be used with adults)	<ul style="list-style-type: none"> Fusion frequency- 5 to 70Hz. Frequency in Ascending and Descending mode. Two color light facility- Red & Green. Auto mode. LCD Display for frequency counts. Mains operated. 	1
3.	Pupillometer	<ul style="list-style-type: none"> Monocular and binocular PD measurements for all distances between 35 cm and infinity. In case of abnormal patient's binocular vision, monocular PD can be measured. Range measurement from 48 to 77 mm. Automatic standby. 	1
4.	Physiographs	<ul style="list-style-type: none"> Single channel with transducers and all relevant accessories (Student Physiograph Single channel with time & event channel main console with 9 speed (100, 50, 25, 10, 5, 2.5, 1, .5, .25 mm/sec.) chart drive and stimulator. Main Console :Made up of non magnetic material aluminium. Couplers :- Strain Gauge, Pulse Respiration, temperature, EKG and Bio- Potential Transducers :- muscle activity/ force respiration belt, pulse, respiration & temperature. Accessories :- EKG electrode, EEG & EMG paste, V-pin junction box, III Pin junction box action potential electrode, 2 Pkts of chart paper Z- fold and fuse. Supplied with Mono bath, X-Block and Plain Stand. 	1
5.	Physiographs	<ul style="list-style-type: none"> Double channel with transducers and all relevant accessories (Student Physiograph Two channel with time & event channel main console with 9 speed (100, 50, 25, 10, 5, 2.5, 1, .5, .25 mm/sec.) chart drive and stimulator. Main Console :Made up of non magnetic material aluminium. Couplers :- Strain Gauge, Pulse Respiration, temperature, EKG and Bio- Potential Transducers :- Pressure, muscle activity/ force respiration belt, pulse, respiration & temperature. Accessories :- EKG electrode, EEG & EMG paste, V-pin junction box, III Pin junction box action potential electrode, 2 Pkts of chart paper Z- fold and fuse. Supplied with two unit organ bath, micromotion attachment and plain stand.) 	1

Clinical Pharmacy

ADDITIONAL LIST AS PER NEW MCI GUIDELINES

1. Special Drug Delivery systems

Name of item	Specification	Qty
a) Dermojet-SC needles	-Should have a portable injector and auto disabling disposable syringe. -Suitable for subcutaneous and intramuscular use. -Should be able to inject a volume range from 0.05 mL to 0.5 mL.	11
b) Thin Film drug delivery	-Thin-film dissolving film or oral drug strip to administer drugs via absorption in the mouth (buccally or sublingually) and/or via the small intestines.	11
c) Insulin pen	-Can accommodate 3ml (300 units) insulin cartridges (100 units per ml). -Doses can be set from 1 to 80 units in steps of 1 unit.	11
d) Glucometer	-Blood sample size: 1 to 2 microlitres -Time for result with test strip in the meter: 5 seconds -Memory: 500 results with date and time.	11
e) Metered dose inhaler	-Should be able to deliver Metered dose of medication to the lungs in the form of a dry powder.	11
f) Dry powder inhaler/ Rotahaler	-dry powder transparent inhaler used with various Rotacaps. -Should be able to deliver medication to the lungs in the form of a dry powder.	11
g) Nebulizer	-Compressor Nebulizer Rating: AC 220-240V, 50Hz Tank Capacity: 7ml maximum Appropriate Medication Quantities: 2ml minimum - 7ml maximum Contents: Compressor, Nebulizer Kit, Air Tube (PVC, 200cm), Mouthpiece, Adult Mask (PVC), Child Mask (PVC), 5 pcs Spare Air Filters.	11
h) Transdermal patches	-Each opaque or transparent rectangular 22 cm ² patch (ingredients: ethylene vinyl acetate copolymer, polyisobutylene, and high densitypolyethylene between polyester backings.) has appropriate amount of drug that delivers through a rate-controlled system over 24 hours.	11
i) Nasal Spray	-Should be able to deliver medication at a Strength of 50 mcg x 1 puff x 100 metered dose	11
j) Macy cathetar	-Should consist of small flexible silicone shaft and an inflatable retention balloon. -A separate medication valve for delivering medication and liquids through the catheter and into the distal third of the rectum.	11
k) Rectal enema tube	-78 cm rectal tubes with wide open end for administration of enema solutions, drainage and irrigation.	11
l) Suppository	-Should be a solid dosage form that is inserted into the rectum (rectal suppository), vagina (vaginal suppository) or urethra (urethral suppository), where it dissolves or melts and exerts local or systemic effects.	11
m) Insulin infusion pump	-Should include: -the pump (including controls, processing module, and batteries) -a disposable reservoir for insulin (inside the pump) -a disposable infusion set, including a cannula for subcutaneous insertion (under the skin) and a tubing system	11

	<p>to interface the insulin reservoir to the cannula.</p> <p>-Should have basal rate increments as low as 0.025 U/hr (available range of 0.025 to 25 U/hr) and bolus increments as low as 0.05 U across the available range (0.05 to 35 U) to deliver precise increments of insulin to help the body's changing needs.</p>	
n) Spacers	<p>- large plastic container with a mouthpiece and a hole for the aerosol inhaler.</p> <p>- Should have 8.5" long spacer with soft silicone nose and mouth mask cover to ensure a wastage-free snug fit</p> <p>- Should have polyamide walls to minimize medication wastage on the spacer surface</p>	11

2. Manikins

Manikins for demonstration of route of drug administration.	<p>To facilitate demonstration of:</p> <ul style="list-style-type: none"> • Administration of Oral drugs • Oxygen inhalation • Nasal feeding • Gastric lavage • Pupil observation • Lumbar puncture • Venipuncture, intravenous injection, blood transfusion (Arm) • Buttocks intramuscular injection • Intra cardiac injection • Subcutaneous injection • Enema • Local drug administration 	10 set
---	--	--------

MEDICINAL HERBAL PHOTOGRAPHS (already submitted)**(Thick Laminated & Framed on NU-Wood Board)**

S.NO	NAME OF CHART	QUANTITY	Specification (L X W)
1.	BAHERA	1	30X20 inches (Framed laminated board.)
2.	ARCHI OIL	1	
3.	PAPAIN	1	
4.	SHANKHPUSHPI	1	
5.	SHARK LIVER OIL	1	
6.	COTTON	1	
7.	ASWAGANDHA	1	
8.	TAMARINDS	1	
9.	SENNA LEAVES	1	
10.	BRAHMI	1	
11.	PUNARNAVA	1	
12.	NEEM OIL	1	
13.	RHUBARB	1	
14.	STROPHANTHUS	1	
15.	AJOWAN	1	
16.	ACACIA (INDIAN GUM	1	
17.	COCOA	1	
18.	TURMERIC	1	
19.	BITTER ORANGE PEEL	1	
20.	NUX-VOMICA	1	
21.	JATAMANSI	1	
22.	CANNABIS	1	
23.	BLACK PEPPER	1	
24.	OPIUM	1	
25.	VINCA	1	
26.	BAEL	1	
27.	ISAPGOL (ISPAGHULA	1	
28.	GINGER	1	
29.	CINNAMON	1	
30.	VASAKA	1	
31.	CELERY	1	
32.	ARJUNA BARK	1	
33.	VALERIAN	1	
34.	CLOVE BUD	1	
35.	LINSEED OIL	1	
36.	NUTMEG	1	
37.	GYMNEMA	1	
38.	DIGITALIS	1	
39.	CHAULMOOGRA	1	
40.	GINSENG ROOTS	1	
41.	EUCALYPTUS	1	
42.	BLACK CATECHU	1	
43.	GARLIC	1	
44.	PEPPERMINT	1	

45.	PYRETHRUM	1	
46.	TULSI	1	
47.	AMLA	1	
48.	MOMORDICA	1	
49.	CUMMIN	1	
50.	HYOSCYAMUS	1	
51.	SAGE	1	
52.	DIOSCOREA	1	
53.	L.H.ERGOT	1	
54.	ALOE	1	
55.	ALMONDS	1	
56.	LEMON PEELS	1	
57.	PICRORRHIZA	1	
58.	THEVETIA	1	
59.	YEAST	1	
60.	VIDANG	1	

FAMOUS PHARMACOLOGY PIONEERS (already submitted)**(Thick Laminated & Framed on NU-Wood Board)**

S.NO	NAME OF CHART	QUANTITY	Specification (L X W)
1.	Rudolf Buchheim	1	30X24 inches (Framed laminated board.)
2.	Paul Greengard	1	
3.	Robert F. Furchgott	1	
4.	Louis J. Ignarro	1	
5.	Ferid Murad	1	
6.	Alfred G. Gilman	1	
7.	Edwin G. Krebs	1	
8.	Sir James W. Black	1	
9.	Gertrude B. Elion	1	
10.	Earl W. Sutherland JR	1	
11.	Julius Axelrod	1	
12.	Linus Carl Pauling	1	
13.	Herbert Spencer Gasser	1	
14.	Corneille J.F. Heymans	1	
15.	Otto Loewi	1	
16.	Sir Henry Hallett Dale	1	
17.	Frederick Grant Banting	1	
18.	Oswald Schmiedeberg	1	
19.	Dr. Naranjan Dhalla	1	
20.	Gerhard Johannes Paul Domagk	1	
21.	Col. Ramnath Chopra	1	
22.	Albert niemann	1	
23.	ARWID CARLSSON	1	
24.	Crawford Long	1	
25.	Friedrich Wilhelm Sertner	1	
26.	George Hitchings (Nobilest)	1	
27.	James Parkinson	1	
28.	John-Gaddum	1	
29.	Howard Walter Florey	1	
30.	Sir John Vane	1	
31.	Karl Koller	1	
32.	Ludwig Laqueur	1	
33.	Sir James Whyte Black	1	
34.	Wzilliam T. G. Morton	1	
35.	William Withering	1	
36.	Ulf von Euler	1	
37.	Richard Willstatter	1	
38.	Giuseppe Brotzu	1	
39.	Alexander Fleming	1	
40.	Paul Ehrlich	1	
41.	Ronald Ross	1	
42.	Selman A. Waksman	1	
43.	Felix Hoffman	1	
44.	Henrik Dam	1	
45.	Maharshi Sushruta	1	
46.	Maharshi Charaka	1	
47.	Barry J. Marshall	1	
48.	Dr. V.V Kelkar	1	

49.	Dr. Om Dutt Gulati	1		
50.	C. Robin Ganellin	1		
51.	Jean Delay	1		
52.	Dr. Ramesh K. Goyal	1		
53.	Sir John Robert Vane	1		
54.	Rushi Dhanvatari	1		
55.	Paul Janssen	1		
56.	John Jacob Abel	1		
57.	E.V. McCollum	1		
58.	Marie Curie	1		
59.	Heinz Otto Schild	1		
60.	Jay Mcclean	1		
61.	Horace Wells	1		
62.	James Young Simpson	1		
63.	Houstonn Merrit	1		
64.	J. Hughlings Jackson	1		
65.	Ascanio Sobrero	1		
66.	Miguel Angel Ondetti	1		
67.	John Cade	1		
68.	Alfred Joseph Clark	1		
69.	Edward C. Kendall	1		
70.	Edward A. Doisy	1		
71.	Rudolf Magnus	1		
72.	Upendranath Brahmachari	1		
73.	Yellapragada subbarao	1		
74.	ADR ASSESSMENT SCALES WHO CAUSALITY ASSESSMENT OF SUSPECTED ADVERSE DRUG REACTIONS	1		40X52 inches (Laminated sheet with strips on both sides)
75.	CRITERIA FOR DETERMINING CAUSATIVE DRUG RELATIONSHIP TO ADVERSE DRUG REACTION.	1		
76.	Rushi Dhanvantari	4		48X20 inches (Framed laminated board.)
77.	Maharshi Charak Shapath	6		