

**MAHARSHI DAYANAND UNIVERSITY, ROHTAK.
TENDER NOTICE**

Sealed tenders super scribed as "Tender for general labware items" and addressed to Head, Department of Pharmaceutical Sciences, M.D. University, Rohtak, along with Demand Draft of earnest money @ 2 % of quoted value, in favour of the Finance Officer, M.D. University, Rohtak, are invited latest by 24-01-2011, at 4.00'pm. The detailed specifications of equipments and terms & conditions are available with Department of Pharmaceutical Sciences, M.D. University, Rohtak, as well as on the University website (www.mdurohtak.com). The tender will be opened on 25-01-2011, in the Department of Pharmaceutical Sciences, at 10.00'am.

REGISTRAR

Maharshi Dayanand University, Rohtak.
Department of Pharmaceutical Sciences

LABORATORY EQUIPMENTS FOR TEACHING AND RESEARCH

S. No.	EQUIPMENT	SPECIFICATIONS	NUMBER OF ITEMS (Rs)
1.	Organ Bath	Two - unit organ bath with thermostatic control ($\pm 1^{\circ}\text{C}$), electric stirrer, double set of glass inner vessels (25 ml), aeration/oxygen tubes, warming coils, stainless steel frontal levers, 4 uprights with boss heads, 2 hook grips and 2 lever holder, 1"x3/8" thick band, for fixing accessories, metal sheathed heating element (easily replaceable) along with stirrer unit fixed on its special stainless steel upright. Supplied with at least 02 spare aeration tubes and 02 frontal levers per organ bath. Working on 220 V AC. Complete in all aspects so as to ensure uniform operation.	12
2.	Sherrington's Drums	Motor (50 W), oil lapped gear system; speed from 0.12mm / sec. to 640 mm/sec. in 8 steps. Start and stop clutch; stainless steel spindle with screw lift. 15x15 cm. cylinder with pilot lamp, plug & cord. Working on 220 V AC. Complete in all aspects so as to ensure uniform operation.	12
3.	Metabolic cages for Rats	Water/Food Tube, Fetcher (Stainless Steel Mesh Basket), Pyrex Urinal, Stainless Steel Coated Funnel, Metabolic Cage Lid, Screen Floor.	5
4.	Thermostatic water bath	Stainless steel inner chamber. PID controlled, double walled. Range +5 degree ambient to 100 degree +/- 0.5 degree C. Concentric rings. 6 holes, Minimum 8 litres capacity, 75 mm holes diameter, heating load upto 2 KW. Provided with water overflow arrangement, immersion heater which is self ejecting on getting dried, pilot lamp and on/off switch; mounted on angle iron frame. Supplied with at least one spare heater element. To work on 220 V AC. Complete in all aspects so as to ensure smooth functioning.	4
5.	Animal Weighing Machine	10 g - 2 Kg	2
6.	Animal Weighing Machine	10 g - 5 Kg	2
7.	Artery forceps	Stainless steel, but jaws, bent pointed	25
8.	Hot Plate	Mounted on a thick MS sheet body, a smooth surface cast iron plate, fitted with an electrically operated element. A three step rotary switch. Plate rectangular, approx. 40 X 25 cm, with energy regulator. Working on 220 V AC. Finished in heat resistant black and the body in white colour. Complete in all aspects so as to ensure smooth operation.	10
9.	Bone Cutter	Stainless steel, five inches	2
10.	Magnetic stirrer with Hot Plate	Electrically operated, fitted with speed regulator, max. speed upto 1200 rpm. Top plate stainless steel, cap 1 - 2 litres. Supplied with 05 teflon coated stirring bars,	20

		of different sizes, with each equipment. Supplied with hot plate and energy regulator. Working on 220 V AC, complete in all aspects so as to ensure smooth operation.	
11.	Vortex shaker	Vibration type, variable speed, neoprene cup, to impart vigorous agitation to tubes, with touch on / off switch. Working on 220 V AC, complete in all aspects so as to ensure smooth operation.	2
12.	Electro-convulsimeter	50 Hz. stimulus current, variable from 0.25 mA to 360 mA. Timer, stimulus duration from 0.1 to 1 sec. in steps of 0.1 sec. stimulus pilot. Three pairs of corneal electrodes of 4,6 & 8 mm. & a pair of eye clips are supplied as std. accessories with instruction manual. Complete in all aspects so as to ensure smooth operation.	1
13.	Photo-actometer (Activity Cage)	Digital activity counter, digital timer with start/reset & stop functions, 12 (6 pairs) of photoelectric activity sensors, 30 x 30 cm Cage, top cover & a sliding tray at the bottom to clean the excreta of the animals. Complete in all aspects so as to ensure smooth operation.	1
14.	Rota-Rod Apparatus	Electronic stepless variable speeds from 3 RPM to 25 RPM, common serrated 50 mm. shaft,. Transparent perspex compartments with independent electronic digital timers, photoelectric time recording operation, 6 compartments, with digital speed control. Complete in all aspects so as to ensure smooth operation.	1
15.	Heating mantles	Made of yarn, to provide uniform heating of flasks, upto 400 degree C. Built-in energy regulator, fitted in painted metallic box. Fitted with on/off switch, pilot lamp, cord & plug assembly. Capacity 500 ml, 200 W. Supplied with 02 spare mantles, with heaters, for replacement. Working on 220 V AC, complete in all aspects so as to ensure smooth operation.	10
16.	Heating mantles	Made of yarn, to provide uniform heating of flasks, upto 400 degree C. Built-in energy regulator, fitted in painted metallic box. Fitted with on/off switch, pilot lamp, cord & plug assembly. Capacity 1000 ml, 300 W. Supplied with 02 spare mantles, with heaters, for replacement. Working on 220 V AC, complete in all aspects so as to ensure smooth operation.	10
17.	Muffle furnace	Laboratory model, working temp. upto 900 degree C or higher, fitted with digital controller cum indicator. Approx size 125 X 125 X 300 mm. Working on 220 V AC, complete in all aspects so as to ensure smooth operation.	1
18.	Animal Restrainer (Rat)	Perspex, for 150-300g animal	2
19.	Tissue Homogenizer	Electrically operated fitted with speed regulator, max speed 1200 rpm, with 10 ml Borosil glass mortar for preparation of tissue homogenates.	1
20.	Homogenizer	Electrically operated fitted with speed regulator, max speed 1200 rpm, with 25 ml Borosil glass mortar for	1

		preparation of tissue homogenates.	
21.	Langendorff's Apparatus	Stainless steel fittings, Perspex bath with electrical heating unit with thermostatic control.	2
22.	Autoanalyzer	Dedicated membrane key-brane keyboard, menu selective with operating guide. Check on instrument status at any time with self-test function. Light Source: 12 V Tungsten Halogen lamp. Optical System: 6 hard membrane filters, 340, 505, 505, 546, 578 & 630 nm. Wavelength Precision: ± 2 nm. Absorbance Range: 0-3.000 Abs, Resolution: 0.0002 Abs drift < 0.003 Abs/Hr after 10 minute of Cuvette: Micro-flow cell 25 μ l	1
23.	Stereotaxic instrument with animal adaptors	Frame, fixing assembly set of ear bar, one micro electrode carrier and one standard carrier, standard AP frame for Rat, rabbit, cat/monkey, dog and guinea pig with different animal adaptors	1
24.	Hamilton's Syringe	Borosil glass syringe (10 μ l capacity), metal piston, with replacable injecting needles (five in number).	1
25.	Analgesiometer (Radiant heat method / Tail flick method)	Radiation from a heated nichrome wire, digital stimulus monitor, temperature maintenance chamber, pilot indicating light. 230-250Volts.AC current. Rat carrier, and a spare heating element.	1
26.	Eddy's Hot Plate	Clear acrylic chamber, floor (30x30 cm). heated to to 80 degree., solid state temperature controller, Galvanometer.	1
27.	Photo-actometer (Activity Cage)	Digital activity counter, digital timer with start/reset & stop functions, 12 photoelectric sensors, 30x30 cm Cage, top cover & a sliding tray at the bottom.	1
28.	Hamilton's Syringe	Borosil glass syringe (10 μ l capacity), metal piston, with replacable injecting needles (five in number).	1
29.	Dissecting Trays	Stainless steel tray with embedded hard wax.	10
30.	Kymograph paper Sheets	50 cm. x 15 cm. wide	2
31.	Smoking Stand	with turning handle, for all sizes of cylinders.	1
32.	Smoking Burner,	Kerosene, with 3" wick & winding up gear	1
33.	Varnishing Tray Brass	with foot lever, wall fixing.	1

(Prof. Arun Nanda)
HOD and Dean of Faculty