

THE TAMIL NADU DR.M.G.R.MEDICAL UNIVERSITY, CHENNAI-600 032

INSPECTION REPORT
FOR THE ISSUE OF CONSENT OF AFFILIATION FOR THE STARTING OF
B.PHARM DEGREE COURSE

INTAKE : 100 Seats

ACADEMIC YEAR : -----

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1	Name of the Convenor	
	Designation and Address	
	Phone Number - Office	
	Residence	
	Mobile	
	Fax No	
	E-mail address	
2	Name of the Member	
	Designation and Address	
	Phone Number - Office	
	Residence	
	Mobile	
	Fax No	
	E-mail address	

3	University Letter No. and Date in which the Inspection Commission is constituted		
	Date of Inspection		
4	Name and Details of Authorities representing the Management present at the time of Inspection.		
5	Name of the Society/Trust and its full Registered address (Enclose a copy of Registration Certificate)		
	Name of the Chairman / Managing Trustee		
	Phone Number - Office		
	Residence		
	Mobile		
	Fax No		
	E-mail address		
6	a	Name of the Pharmacy College and full address	
		Telephone Numbers	
		Fax No.	
		E-Mail Address	
	b	Name of the Principal	
		Full Residential Address	
		Phone Number - Office	
		Residence	
		Mobile	
		Fax No	
		E-mail address	

7	a	Name of the other courses run by the Trust in the same premises	Course	Same/Separate building
	b	NOTE: Where more than one course is conducted in the same premises / location by the Trust the Inspection commission may ensure that the course in this report has sufficient infrastructural facilities like land, building, laboratory, hostel, residential quarters etc. independent of the facilities provided for other course(s).		
8		Order No. and Date of the Government of Tamil Nadu in which permission was accorded to start the Pharmacy college / course with number of intake permitted and from which academic year – G.O. (Enclose a copy of the order)		
9	a	Whether the Trust has obtained minority Status?		
	b	Academic year for which the Minority Status obtained. (Enclose a copy of the relevant G.O.)		
10		Whether the Institution has fulfilled all the conditions prescribed in G.O. Ms. No.1190, Health and Family welfare Department, dated 30.08.96 including the creation of endowment in the Joint names of the Director of Medical Education and the Trust / Society. (Furnish details with evidence)		

11	a	Whether the Institution is approved by the All India Council for Technical Education? (for academic year...)	Yes	No	No. of seats approved	
	b	Order in which the approval was accorded for B.Pharm. Degree Course with number of intake and the year up to which approved. (Enclose a copy of the order)				
12.	a	Whether the Institution is approved by the Pharmacy Council of India? (for academic year....)				
	b	Order in which the approval was accorded for B.Pharm. Degree Course with number of intake and the year up to which approved. (Enclose a copy of the order)				
13.	a	Proceedings No. and Date in which Provisional Affiliation was granted by this University. (Enclose a copy of the order)				
	b	Proceedings No. and Date in which the order of continuance of Provisional Affiliation was last granted to conduct entire B.Pharm. Degree Course and No. of intake of students permitted. (Enclose a copy of the order)				
14	Details of student admission made by the Institution under Free, Payment and NRI quota during the previous academic year. (Mention Academic year)		Free Seat	Payment Seat	NRI Quota	Total
	No. Sanctioned					
	No. Admitted					

15	Pass percentage for last three years					
16	A	<p>READY BUILT AREA</p> <p>Details regarding the availability of minimum ready built area of 3,500 sq.m for the entire course to accommodate the administrative office, laboratories, class rooms, library, store- rooms, toilets for students and staff (separately for men and Women) with proper hygiene, adequate sanitation facilities, safe drinking water, adequate water supply, etc., (Please furnish the particulars on each of the above items without omission including ownership documents, Building plan, Sale deed etc.,).</p> <p>If the college conducts M. Pharm & Pharm. D., courses, total ready built area available for B. Pharm, M. Pharm & Pharm D for college courses</p>	<p>(1) Land – 2.5 acre for Dist. HQ/ Corporation/ Municipality limit</p> <p>(2) 0.5 Acres - Metro / cities</p>			
	B	DETAILS OF FACILITIES	No. of rooms	Area	Available	Shortfall
	a)	Administrative area				
		(i) Principal's room	1	30 Sq.mts		
		(ii) Administrative office	1			
		(iii) Academic records room(optional)	1	60 Sq.mts		
		(iv) Strong room(optional)	1			

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	b)	Rooms		
		(i) HOD	Minimum 4	20 Sq.mts x 4
		(ii) Faculty members	Adequate	10 Sq. mts x n (n- No. of teachers)
	c)	Class rooms	6 Nos.	6 of 90 Sq. mts or 4 of 150 sq. mts. with Public address system
	d)	Examination/Seminar Hall	1No.	250-300 seating capacity
	e)	Toilet facilities		
		Students- Men	1 No.	24 Sq.mts
		Students- Women	1 No.	24 Sq.mts
	f)	Common room for Boys	1No.	60 sq.mts
	g)	Common room for Girls	1 No.	60 sq.mts
	C	Amenities		
		Drinking water facilities		
		Power back up		
		Canteen	100 sq.m	

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		Internet & wi-fi Scanner Photocopier Reprographic Facilities			
		Parking area Staff – 2 wheeler 4 wheeler Students – 2 wheeler 4 wheeler Bank Post office General stores First aid Sick room			
17	Hostel facilities (Desirable)				
			Required	Available	Shortfall
	a		9 sq.m. per Room for single occupancy		
		For Men	20 sq.m. per Room for triple occupancy		
b		9 sq.m. Per Room for single occupancy			
	For Women	20 sq.m. per Room for triple occupancy			

	c	Whether permanent hostel buildings for men and women students separately are available within the campus? If so, number of rooms available for each?	MEN : WOMEN :
	d	Furnish address, if Hostel is not provided in the same campus as the college is situated.	
	e	Whether transport facilities are provided between college and hostel?	
18	RESIDENTIAL QUARTERS (Desirable)		
		Details of residential quarters provided to the staff. Whether this facility is provided in the same complex or separately? (Furnish full details)	
		Principal's quarters	80 Sq.mts
		Staff quarters	16 x 80 Sq.mts
		Guest rooms for visitors	80 Sq.mts
19	PLAY GROUND (Desirable)		
	a	Whether playground facility is available in the same campus?	
	b	The details of sports articles provided to the students by the college.	
20	EXTRA CURRICULAR		
		Whether adequate space and equipment have been provided for extra-curricular activities for the students?	Specify

21	BALANCE SHEET	
	Latest Balance sheet duly certified by a Chartered Accountant showing the financial soundness to run the Pharmacy College.	
22	FURNITURE	
	Whether adequate furniture are available in the Pharmacy College for staff and students?	
23	HOSPITAL ARRANGEMENTS	
a	Whether the college is located in the proximity of a Medical College or a well-established General Hospital with which the management has an agreement to facilitate training of Pharmacy students in the subjects of Clinical Pharmacy, Hospital Pharmacy, Hospital has an agreement to facilitate training of pharmacy students in the subjects of Clinical Pharmacy, Hospital Pharmacy, Hospital Administration? (Enclose copy of the order)	
b	Whether the college has a tie up with a General Hospital with a minimum of 100 beds within the radius of 30 Kms	
c	If the Tie up is with a Government Hospital, submit the Government order copy	
d	If it is an own Hospital, submit the copy of MOU.	
e	No. of Beds	

	f	Period of tie up	
		(Enclose a binding evidence to show that the hospital shall oblige to extend the necessary facilities to the Pharmacy students in imparting the Training)	
24		Whether the college possess an Undertaking from a Pharmaceutical manufacturing unit to provide training for 15 days in manufacture and for 15 days in analysis for the IV year B.Pharmacy students. (Enclose copy of the undertaking)	
25		SHOW CAUSE NOTICE	
		Whether any show cause notice issued for inadequacy of facilities/teaching staff etc. by the Pharmacy Council of India or the All India Council for Technical Education or the University?. If so, furnish details.	
26		LIBRARY	
	a)	Timings : Area : Seating facilities : Browsing facilities with area (minimum 10 computers): Own book reading area :	
	b)	Total number of Books / Journals available for Pharmacy course in different specialties. [Enclose List of books subject wise and Journals (National and International)]	

	c)	Details of availability of Internet and CD-ROM facilities in the Library.		
	d)	Central Library with Reading room with a minimum space of 150 sq.m. with a minimum of 1500 volumes of 150 titles for the use of students		
	e)	LIBRARY FACILITIES		
		Item	Titles Required	Minimum Volumes Required
		No. of Books	150	1500
		Annual increment in Books		100-150 books
		National Journal	10	-
		International Journals	5	-
		E – Journals		Science Direct/ /Bentham/ University E-consortium/ Delnet
		Educational Aid CDs	Adequate	-
		Reading room seating capacity	15% of total No. of students or a maximum of 150 seats	
	f)	Whether the college is equipped with audio-visual teaching aids(CD Projector, Smart board, Any other), Photo copying machine, other office equipments and a photographic section?		

TEACHING STAFF

27	TEACHING STAFF REQUIRED		
	Whether the Pharmacy College has the Teaching Staff as prescribed in the statutes with reference to the qualifications prescribed in the Pharmacy statutes?		

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28. Enclose copy of Appointment order, Joining Report, Educational Qualification, Council Registration Certificate, Teaching Experience before and after Post-Graduation & Affidavit for the following faculties.

Name of the Post	Required for the Strength of 100 Students	Qualification	Experience
Principal (Any Specialisation)	1	<p>Qualification <u>B.Pharm.</u> Month & Year of Pass: Class: <u>M.Pharm.</u> Month & Year of Pass: Class:</p> <p><u>Ph.D.</u> Month & Year of Award:</p>	<p><u>Essential</u> 15 years Experience in teaching or research out of which 5 years must be as professor /HOD in a PCI approved / recognized pharmacy college.</p> <p><u>Desirable</u> Administrative experience in a responsible position.</p>

60:1 for Theory, 20:1 for Practical is the ratio of students faculty. Availability for Teaching faculty and equipment (enclosed) for the 1st year is mandate and has to be checked. Rest of faculty and equipment for other years is desirable

29. PART TIME STAFF: 3

Sl. No.	Name of the Post	Required for the Strength of 100 Students	Available	Shortfall
1.	Assistant Professor of Anatomy and Physiology	1		
2.	Assistant Professor of Biostatistics	1		
3.	Assistant Professor of Computer Science	1		

Name of the Teaching Staff	Designation	Qualification	Experience*

1. Qualification as per Pharmacy Statutes**MINIMUM REQUIREMENTS OF ACADEMIC QUALIFICATIONS, TEACHING, RESEARCH AND INDUSTRY EXPERIENCE FOR THE TEACHING POSTS IN PHARMACY COLLEGE/INSTITUTIONS****B.PHARM DEGREE COURSE**

Name of the Post	Academic qualification	Teaching/Research/Industry Experience
Director/Principal/Head of the Institution	<p>First Class B.Pharm with Master's degree in Pharmacy (M.Pharm) in appropriate branch of specialization in Pharmacy or Pharm.D</p> <p>(Qualifications must be PCI recognized)</p> <p>With Ph.D degree in any of Pharmacy subjects</p> <p>(Ph.D. Qualification must be PCI recognized)</p>	<p><u>Essential</u></p> <p>15 years experience in teaching or research out of which 5 years must be as Professor/HOD in a PCI approved/recognized pharmacy college.</p> <p><u>Desirable</u></p> <p>Administrative experience in a responsible position</p>

Professor	<p>First class B. Pharm., with Master's degree in Pharmacy (M. Pharm.,) in appropriate branch of specialization in Pharmacy or Pharm. D.,</p> <p>(Qualifications must be PCI recognized)</p> <p>With Ph. D., degree in any of Pharmacy subjects</p> <p>(Ph.D. Qualifications must be PCI recognized)</p>	<p style="text-align: center;"><u>Essential</u></p> <p>10 years' experience in teaching in PCI approved/recognized Pharmacy college or research experience out of which 5 years must be as Associate Professor in PCI approved /recognized Pharmacy College.</p>
Associate Professor	<p>First class B. Pharm., with Masters' degree in Pharmacy (M. Pharm.,) in appropriate branch of specialization in Pharmacy (Qualifications must be PCI recognized)</p> <p>A PCI recognized Pharm. D., degree holder shall also be eligible for the posts of Associate Professor in the subjects of pathophysiology, pharmacology and pharmacy practice.</p> <p>Associate Professor shall acquire PCI recognized Ph. D., in any Pharmacy subjects within 7 years to become eligible for the post of Professor.</p>	<p>3 years' experience in teaching or research at the level of Assistant Professor or equivalent in PCI approved/recognized pharmacy college.</p>
Lecturer/Assistant Professor	<p>First class B. Pharm., with Master's degree in Pharmacy (M. Pharm.,) in appropriate branch of specialization in Pharmacy (Qualifications must be PCI recognized)</p> <p>A PCI recognized Pharm. D., degree holder shall also be eligible for the posts of Lecturer /Assistant Professor in the subjects of pathophysiology, pharmacology and pharmacy practice.</p>	<p>A lecturer will be re-designated as Assistant Professor after 2 years of teaching experience in PCI approved/recognized Pharmacy College.</p>

Note: As approved by the PCI's "Minimum Qualification for Teachers in Pharmacy Institutions Regulations, 2014"

30. NON PROFESSIONAL POSTS

S.No.	NAME OF THE POST	REQUIRED Nos.	QUALIFICATION	AVAILABLE	SHORTFALL
1.	Librarian	1	M. Lib.,		
2.	Assistant Librarian	1	D. Lib.,		
3.	Library Attenders	2	10+2/PUC		
4.	Office Superintendent	1	Degree		
5.	Office Staff Gr.I	1	Degree		
6.	Office Staff Gr. II	1	Degree		
7.	Accountant	1	Degree		
8.	Storekeeper	1	D. Pharm./ Degree		
9.	Computer Operator	1	BCA/ Graduate with Computer Course		
10.	Gas Mechanic		1		
11.	Electrical Assistant		1		
12.	Physical Education Director (Part- Time)		1		
13.	Physical Education Marker (Part-Time)		1		
Other Supporting Staff					
14.	Laboratory Technician	1 for each Dept.		D. Pharm., or B. Pharm., or B. Sc., degree with Chemistry as major and Botany or Zoology as ancillary; or Botany or Zoology as major with Chemistry or Physics as ancillary.	

Laboratory Assistant / Attender	1 for each lab (minimum)	SSLC		
Office Assistant	1/ adequate	Degree		
Peon	2	SSLC		
Sweeper/ Cleaning Personnel	1/ adequate			
Gardener	1/ adequate			

31. PHYSICAL VERIFICATION OF THE TEACHING STAFF

1	Whether the teaching staff required for conducting B. Pharm., Degree Course are physically present at the time of Inspection?	
2	Whether Teaching Staff Declaration furnished in the enclosed Affidavit?	
3	Whether Passport size Photo affixed and signed by the individual and the Notary Public with seal and Countersigned by the Principal of Pharmacy College ?	
4	After Physical Verification of the teaching Staff, the Affidavit has to be signed by the Convenor and Member of the Inspection Commission and sent to the University along with the Inspection Report.	
5	Notary Public sign and seal should be obtained in all pages of the Affidavit.	

32. Whether the Pharmacy College is fully equipped with the following?

I B. Pharm.,

1	Whether adequate chemicals and glass wares are available? (Furnish the list)	
2	Whether all equipments essential as per the syllabus are available? (Furnish the list)	
3	Whether Pharmaceutical Chemistry Laboratory with a minimum space of 75 sq.m. is available?	

4	Whether Balance Room, Preparation Room, Laboratory Staff Room and Fume cupboard are available?	
5	Whether a Physiology laboratory of minimum space of 75 sq. m. with facilities for experimental physiology is available?	
6	Whether smoking and varnishing chamber and animal room situated adjacent to laboratory are available?	
7	Whether each laboratory is fitted with work benches and furniture required for 20 students in a batch as per the standard specification?	
8	Whether all the laboratories have good lighting, ventilation and sufficient number of door for any emergency?	
9	Whether adequate number of Exhaust Fans and Fire Extinguishers are available in each Laboratory?	
10	Whether a Petrol Gas Plant or LPG Gas supply is provided?	
11	Equipments available	List attached **
12	Whether a Computer Lab of 75 sq.m. with adequate computing facility is available?	
13	Whether all laboratories are functional at the time of inspection?	
14	Whether a Store-Room for chemicals and glass ware in a minimum space of 100 sq.m. is available?	
15	Whether sectional library is available in each Department?	
16	Whether an Administrative Office with a minimum space of 150 sq. m. is available?	
17	Laboratory with 75sq.m is essential for the conduct of I B. Pharm 1. Pharmaceutics - 1 No. 2. Pharmaceutical Chemistry - 2 Nos. 3. Anatomy/Physiology - 1 No. 4. Pharmacognosy/Remedial Biology – 1 No. 5. Computer Laboratory - 1 No.	

II B. Pharm.,

1	Whether adequate chemicals and glass wares are available? (Furnish the list)	
2	Whether all equipments essential as per the syllabus are available? (Furnish the list)	
3	Whether a Pharmaceutical chemistry laboratory of 75 sq. m. with a standard Chemistry laboratory work tables to accommodate 20 students in a batch at a time is available with gas, water, drainage and sufficient electrical connection on the table and in the laboratory for easy operation of electrical equipments?	
4	Whether provision for vacuum points, Laboratory staff room, preparation room and balance room are available?	
5	Whether a Professor's Room is provided?	
6	Whether a laboratory of 75 sq. m. for Physical Pharmaceutics with water, drainage, gas and electrical connection in the table and at suitable points in the wall and the preparation room is available?	
7	Whether all laboratories are provided with- I) Hot plates in adequate number ii) Heating mantles in adequate number iii) Driers in adequate number iv) Vacuum pumps v) Deioniser vi) Distilled water stills	
8	Whether a Multi-purpose hall with a seating capacity of 120 students and facilities like audio-visual aids for use in Seminars, Symposia and for the conduct of the Examinations is available?	

III B.Pharm.

1	Whether adequate chemicals and glass wares are available? (Furnish the list)	
2	Whether all equipments essential as per the syllabus are available? (Furnish the list)	
3	Whether a Pharmacognosy laboratory of 75 sq. m. to accommodate 20 students at a time is available?	
4	Whether the Laboratory is fitted with Biology type of work tables with gas, water, drainage and electrical connections on the table with fixed lighting for microscopic work?	
5	Whether preparation room and laboratory staff room are available?	
6	Whether sinks for washing are provided in the preparation room?	
7	Whether a Store room of 15 sq. m. is provided in continuity with the laboratory?	
8	Whether a Museum of 50 sq. m. is set up with display of crude drugs?	
9	Whether an Aseptic room of 20 sq. m. is provided with an A/c unit for Tissue culture work?	
10	Whether a Medicinal Garden is provided to grow at least 250 Medicinal Plants?	
11	Whether a Pharmacology laboratory of 75 sq. m. is available with adequate gas, water, drainage and electrical connections for experimental Pharmacology?	
12	Whether preparation room, a laboratory staff room and a smoking and varnishing room are available?	
13	Whether a Pharmaceutics laboratory of 75 sq. m. with gas, water, drainage and electrical connections on the table (for Pharmaceutical Dosage forms practical) is available?	
14	Whether preparation room and room for laboratory staff are provided adjacent to the laboratory?	

15	Whether a Machine room of 80 sq.m. is provided with electrical plug points for fixing all the pharmaceutical machineries required as per the syllabus and making them operational?	
16	Whether Gas, water supply and drainage are provided at appropriate points?	
17	Whether this Machine room is available in continuity with the Pharmaceutics Laboratory?	
18	Whether the Pharmaceutical Bio-Technology Laboratory (under the Department of Pharmaceutics) of 75 sq.m. with Biology type of work tables with gas, water and Drainage facilities is available?	
19	Whether a room of 10 sq m. with a Laminar flow unit and A/C for aseptic dispensing and other microbiological work is available to manage Clinical and Hospital Pharmacy, Dispensing Pharmacy and Biological Pharmacy?	
20	Whether a media sterilization room, Preparation room and laboratory staff room are provided?	
21	Whether a Pharmaceutical Chemistry Laboratory with a minimum space of 75 sq.m. is available?	
22	Whether balance room, preparation room, Laboratory Staff room and Fume cupboard are provided?	
23	Whether a staff Research Laboratory with a minimum space of 75 sq.m. is available?	
24	Whether Provision is made for the students' training in Community, Clinical and Hospital Pharmacy for a period of 1 month?	

Final B. Pharm.,

1	Whether a laboratory for Pharmaceutical Analysis (under Pharmaceutical Chemistry) is available?	
2	Whether a Central Instrumentation room of 80 sq. m. with AC for setting up of all modern analytical equipments is available? (Equipment List enclosed for verification)	
3	Whether adequate electrical connection with voltage stabilizers for the safety of the sensitive analytical equipments is available?	
4	Whether staff room is provided for the Associate professor and Assistant Professor in-charge?	
5	Whether a separate room with heating arrangement, water and drainage facilities is provided adjacent to the instrumentation Laboratory to prepare solutions?	
6	Whether a Multipurpose Hall to accommodate 250 students is provided with facilities like audio-visual aids?	
7	Whether a spacious Animal House of 80 sq.m. to accommodate experimental animals necessary for teaching and research work is provided?	
8	Whether the college is equipped with the Analytical and other laboratories with the latest standard equipments required as per the syllabus?	
9	Whether provision is made for Practical training of one month in any of the established Pharmaceutical manufacturing units?	
10	Whether the college has a minimum of one bus for the students?	
11	Whether the college has an Auditorium ?	
12	Whether the college has Faculty and Students' Recreation Hall ?	
13	Whether all the infrastructural facilities required for the conduct of entire course are continued to be provided by the college?	

33. UNIVERSITY FEE (Furnish copies of Remittance)		
	Whether the Institution has remitted the following Fees ?	
i	Application Fee	
ii	Inspection Fee	

34. SPECIFIC OBSERVATION OF THE INSPECTION COMMISSION

(Separate note may be enclosed)

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PLACE:

DATE:

SIGNATURE OF THE MEMBER

NAME IN BLOCK LETTERS

SIGNATURE OF THE CONVENOR

NAME IN BLOCK LETTERS

**** PART VII – EQUIPMENT AND APPARATUS**

Department wise list of minimum equipments required for B. Pharm (for a batch of 20 students)

DEPARTMENT OF PHARMACOLOGY**Equipments:**

S. No.	Name	Minimum required Nos.	Available Nos.	Working Yes / No	Remarks of the Inspectors
1	Microscopes	15			
2	Haemocytometer with	20			
3	Sahli's haemocytometer	20			
4	Hutchinson's spirometer	01			
5	Sphygmomanometer	05			
6	Stethoscope	05			
7	Permanent Slides for various tissues	One pair of each tissue Organs and endocrine glands One slide of each organ system			
8	Models for various organs	One model of each organ system			
9	Specimen for various organs and systems	One model for each organ system			
10	Skeleton and bones	One set of skeleton and one spare bone			
11	Different Contraceptive Devices	One set of each device			
12	Muscle electrodes	01			
13	Lucas moist chamber	01			
14	Myographic lever	01			
15	Stimulator	01			
16	Centrifuge	01			
17	Digital Balance	01			
18	Physical /Chemical Balance	01			

19	Sherrington's Kymograph Machine/ Polyrite	10			
20	Sherrington Drum	10			
21	Perspex bath assembly (single unit)	10			
22	Aerators	10			
23	Computer with LCD	01			
24	Software packages for experiment	01			
25	Standard graphs of various drugs	Adequate number			
26	Actophotometer	01			
27	Rotarod	01			
28	Pole climbing apparatus	01			
29	Analgesiometer (Eddy's hot plate and radiant heat methods)	01			
30	Convulsiometer	01			
31	Plethysmograph	01			
32	Digital pH meter	1			

Apparatus:

Sl. No.	Name	Minimum required Nos	Available Nos.	Working Yes / No	Remarks of the Inspectors
1	Folin-Wu tubes	60			
2	Dissection Tray and Boards	10			
3	Haemostatic artery forceps	10			
4	Hypodermic syringes and needles of size 15,24,26G	10			
5	Levers, cannulae	20			

NOTE: Adequate number of glassware commonly used in the laboratory should be provided in each laboratory and department.

DEPARTMENT OF PHARMACOGNOSY

Equipments:

Sl. No.	Name	Minimum required Nos.	Available Nos.	Working Yes / No	Remarks of the Inspectors
1	Microscope with stage micrometer	15			
2	Digital Balance	02			
3	Autoclave	02			
4	Hot air oven	02			
5	B.O.D. Incubator	01			
6	Refrigerator	01			
7	Laminar air flow	01			
8	Colony counter	02			
9	Zone reader	01			
10	Digital pH meter	01			
11	Sterility testing unit	01			
12	Camera Lucida	15			
13	Eye piece micrometer	15			
14	Incinerator	01			
15	Moisture balance	01			
16	Heating mantle	15			
17	Flourimeter	01			
18	Vacuum pump	02			
19	Micropipettes (Single and multi channeled)	02			
20	Micro Centrifuge	01			
21	Projection Microscope	01			

Apparatus:

SI. No.	Name	Minimum required Nos.	Available Nos.	Working Yes / No	Remarks of the Inspectors
1	Reflux flask with condenser	20			
2	Water bath	20			
3	Clavengers apparatus	10			
4	Soxhlet apparatus	10			
6	TLC chamber and sprayer	10			
7	Distillation unit	01			

NOTE: Adequate number of glassware commonly used in the laboratory should be provided in each laboratory and department.

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY**Equipments:**

SI. No.	Name	Minimum required Nos.	Available Nos.	Working Yes /	Remarks of the Inspectors
1	Hot plates	05			
2	Oven	03			
3	Refrigerator	01			
4	Analytical Balances for	05			
5	Digital balance 10mg	10			
6	Digital Balance (1mg	01			
7	Suction pumps	06			
8	Muffle Furnace	01			
9	Mechanical Stirrers	10			
10	Magnetic Stirrers with	10			
11	Vacuum Pump	01			
12	Digital pH meter	01			
13	Microwave Oven	02			

Apparatus:

Sl. No.	Name	Minimum required Nos.	Available Nos.	Working Yes / No	Remarks of the Inspectors
1	Distillation Unit	02			
2	Reflux flask and condenser single necked	20			
3	Reflux flask and condenser double / triple necked	20			
4	Burettes	40			
5	Arsenic Limit Test Apparatus	20			
6	Nessler's Cylinders	40			

NOTE: Adequate number of glassware commonly used in the laboratory should be provided in each laboratory and department.

DEPARTMENT OF PHARMACEUTICS**Equipments:**

Sl. No.	Name	Minimum Required	Available	Working	Remarks of the
1	Mechanical stirrers	10			
2	Homogenizer	05			
3	Digital balance	05			
4	Microscopes	05			
5	Stage and eye piece micrometers	05			
6	Brookfield's viscometer	01			
7	Tray dryer	01			
8	Ball mill	01			
9	Sieve shaker with sieve set	01			
10	Double cone blender	01			
11	Propeller type mechanical agitator	05			
12	Autoclave	01			
13	Steam distillation still	01			

14	Vacuum Pump	01			
15	Standard sieves, sieve no. 8, 10, 12,22,24, 44,	10 sets			
16	Tablet punching machine	01			
17	Capsule filling machine	01			
18	Ampoule washing machine	01			
19	Ampoule filling and sealing machine	01			
20	Tablet disintegration test apparatus IP	01			
21	Tablet dissolution test apparatus IP	01			
22	Monsanto's hardness tester	01			
23	Pfizer type hardness tester	01			
24	Friability test apparatus	01			
25	Clarity test apparatus	01			
26	Ointment filling machine	01			
27	Collapsible tube crimping machine	01			
28	Tablet coating pan	01			
29	Magnetic stirrer, 500ml and 1 liter capacity	05 EACH			
30	Digital pH meter	01			
31	All purpose equipment with all accessories	01			
32	Aseptic Cabinet	01			
33	BOD Incubator	02			
34	Bottle washing Machine	01			
35	Bottle Sealing Machine	01			
36	Bulk Density Apparatus	02			
37	Conical Percolator (glass/ copper/ stainless steel)	10			
38	Capsule Counter	02			
39	Energy meter	02			
40	Hot Plate	02			
41	Humidity Control Oven	01			
42	Liquid Filling Machine	01			
43	Mechanical stirrer with speed regulator	02			
44	Precision Melting point Apparatus	01			
45	Distillation Unit	01			

Apparatus:

SI. No.	Name	Minimum required Nos.	Available Nos.	Working Yes / No	Remarks of the Inspectors
1	Ostwald's viscometer	15			
2	Stalagmometer	15			
3	Desiccator *	05			
4	Suppository moulds	20			
5	Buchner Funnels (Small, medium, large)	05 each			
6	Filtration assembly	01			
7	Permeability Cups	05			
8	Andreason's Pipette	03			
9	Lipstick moulds	10			

NOTE: Adequate number of glassware commonly used in the laboratory should be provided in each laboratory and department.

PHARMACEUTICAL BIOTECHNOLOGY

Sl. No.	Name	Minimum required	Available Nos.	Working Yes / No	Remarks of the
1	Orbital shaker incubator	01			
2	Lyophilizer (Desirable)	01			
3	Gel Electrophoresis	01			
4	Phase contrast/Trinocular Microscope	01			
5	Refrigerated Centrifuge	01			
6	Fermenters of different capacity (Desirable)	01			
7	Tissue culture station	01			
8	Laminar airflow unit	01			
9	Diagnostic kits to identify	01			
10	Rheometer	01			
11	Viscometer	01			
12	Micropipettes (single and multi	01 each			
13	Sonicator	01			
14	Respinometer	01			
15	BOD Incubator	01			
16	Paper Electrophoresis Unit	01			
17	Micro Centrifuge	01			
18	Incubator water bath	01			
19	Autoclave	01			
20	Refrigerator	01			
21	Filtration Assembly	01			
22	Digital pH meter	01			

b: Adequate number of glassware commonly used in the laboratory should be provided in each laboratory and department.

CENTRAL INSTRUMENTATION ROOM

S. No.	Name	Minimum Required Nos.	Available Nos.	Working Yes / No	Remarks of the Inspectors
1	Colorimeter	01			
2	Digital pH meter	01			
3	UV- Visible Spectrophotometer	01			
4	Flourimeter	01			
5	Digital Balance (1mg sensitivity)	01			
6	Nephelo Turbidity meter	01			
7	Flame Photometer	01			
8	Potentiometer	01			
9	Conductivity meter	01			
10	Fourier Transform InfraRed Spectrometer (Desirable)	01			
11	HPLC	01			
12	HPTLC (Desirable)	01			
13	Atomic Absorption and Emission spectrophotometer (Desirable)	01			
14	Biochemistry Analyzer (Desirable)	01			
15	Carbon, Hydrogen, Nitrogen Analyzer (Desirable)	01			
16	Deep Freezer (Desirable)	01			
17	Ion- Exchanger	01			
18	Lyophilizer (Desirable)	01			

1. Laboratory requirement at the end of 4 Years

Sl. No.	Infrastructure for	Requirement as per Norms	Available No. & Area in Sq mts	Remarks/ Deficiency
1	Laboratory Area for B.Pharm Course (12 Labs)	90 Sq .mts x n (n=10) - Including Preparation room - Desirable 75 Sq. mts - Essential		
2	Pharmaceutics Pharmaceutical Chemistry Pharmaceutical Analysis Pharmacology Pharmacognosy Pharmaceutical Biotechnology (Including Aseptic Room) Total no. Laboratories for B.Pharm course	03 Laboratories 02 Laboratories 1 Laboratory 2 Laboratories 01 Laboratories 01 Laboratory 10 Laboratories *		
3	Preparation Room for each lab (One room can be shared by two labs, if it is in between two labs)	10 sq mts (minimum)		
4	Area of the Machine Room	80-100 Sq.mts		
5	Central Instrumentation Room	80 Sq.mts with A/ C		
6	Store Room – I	1 (Area 100 Sq mts)		
7	Store Room - II (For Inflammable chemicals)	1 (Area 20 Sq mts)		

*Number of laboratories required for entire course of 4 years.